COMODO
Creating Trust Online®

Comodo IceDragon

Software Version 42.0

User Guide

Guide Version 42.0.032817

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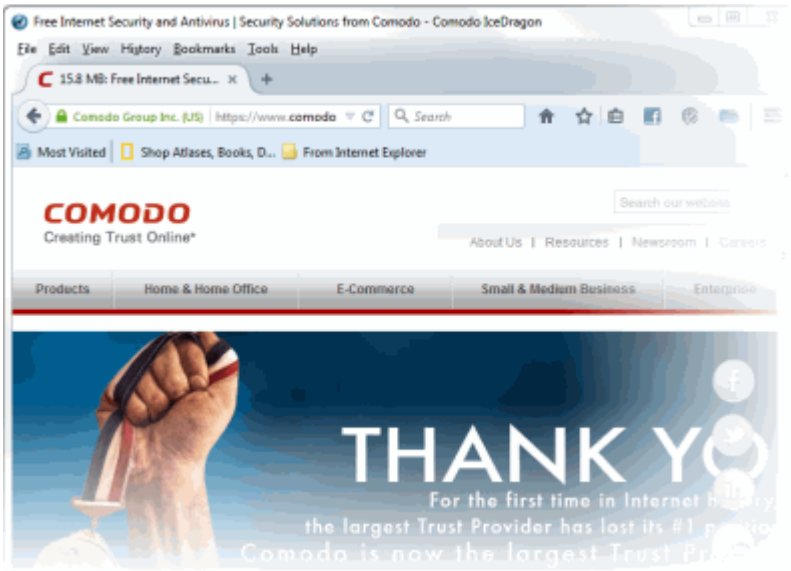
1. Comodo IceDragon – Introduction

Comodo IceDragon is a fast, secure and versatile Internet Browser based on Mozilla core and infused with Comodo's unparalleled level of security.



Guide Structure

This guide is intended to take the user through the installation, configuration and use of Comodo IceDragon.

- Comodo Dragon - Introduction
- System Requirements
- Downloading And Installing Comodo IceDragon
- The Basics
  - Starting Comodo IceDragon
  - Setting IceDragon as your Default Browser
  - Setting up Your Homepage
  - Searching the Internet
  - Customizing the Toolbar
  - Re-opening Recently and Most Visited Websites
  - Viewing Browsing History
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  - Portable Version
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- Tabbed Browsing
  - Using Tabs
  - Customizing Your 'New Tab' Page
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- Bookmarks
  - Creating Bookmarks
  - Finding and Editing Bookmarks
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  - Deleting Browsing History and configuring History settings
  - Allowing/Blocking pop-up windows
  - Managing Cookies
  - Blocking Websites from Tracking your Browsing History
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  - Managing Automatic Installations of Add-ons and Blocking Insecure Add-ons
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  - Managing Plugins
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  - Managing Services
- Tools and other Features
  - Customizing Applications for Opening Different File Types
  - Searching Within Page Content
  - Form Autofill
  - Keyboard and Mouse Shortcuts for Comodo IceDragon
- Web Developer Tools
  - Opening the Tools console
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  - Using the Web Console
  - Remove Inconsistencies with HTML, CSS and Javascript

- View and Run Experimental Style Sheets on a Webpage
- Improving Web Page/Web Application Performance
- Network Monitoring
- Using the Developer Toolbar
- Using the WebIDE
- Browser Console
- Responsive Design View
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- Run Experimental Java Scripts on Page
- View Page Source
- Enabling Character Encoding from the Web Developer Console
- Add More Web Development Tools
- Working Offline

- Troubleshooting
  - Error: “"This Connection is Untrusted"
- Report a Bug

2. System Requirements

To ensure optimal performance of Comodo IceDragon, please ensure that your PC complies with the minimum system requirements:

- Windows 8 / 8.1 / 7 / Vista / XP
- 128 MB RAM
- 40 MB Hard Disk Space

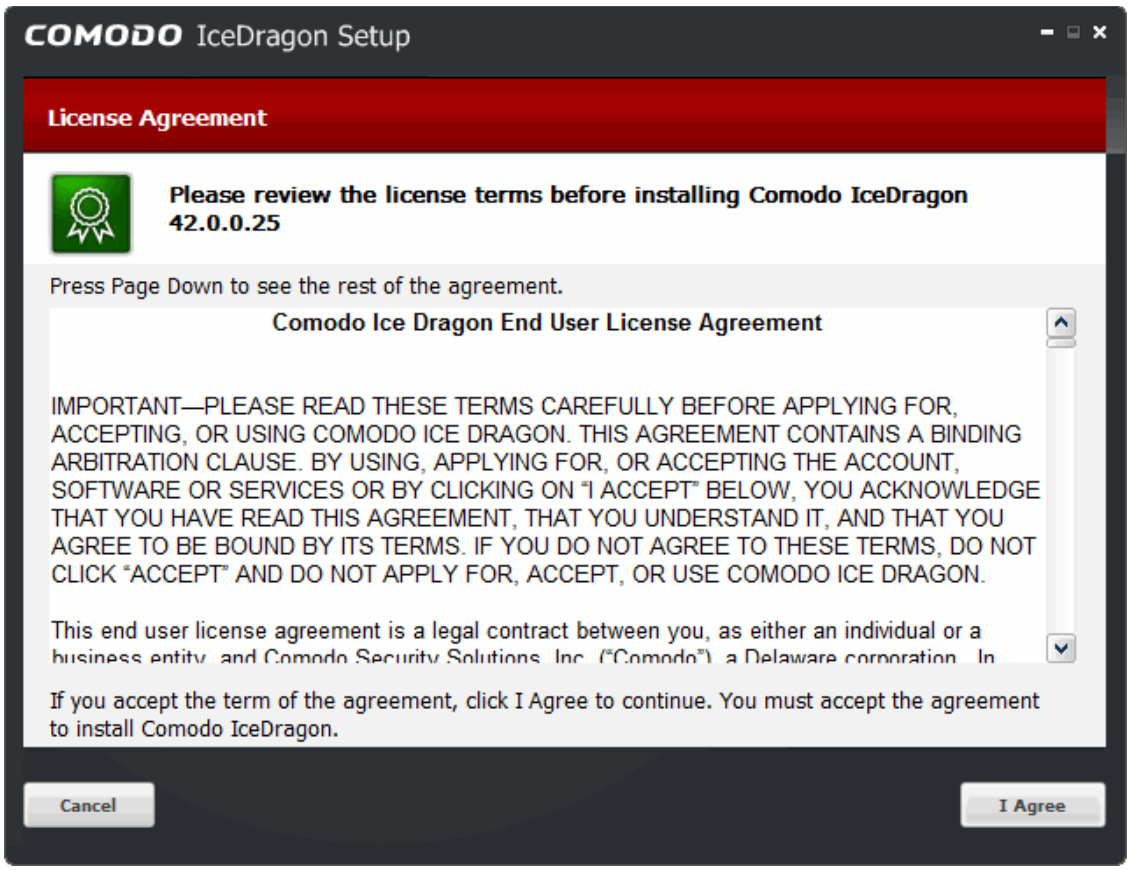
Click here to download and install Comodo IceDragon.

3. Downloading And Installing Comodo IceDragon

You can download the IceDragon setup file from the location: **http://icedragon.comodo.com/**

After downloading the setup file to your hard drive, double click icedragonsetup.exe to start the installation wizard.

Step1 - End User License Agreement

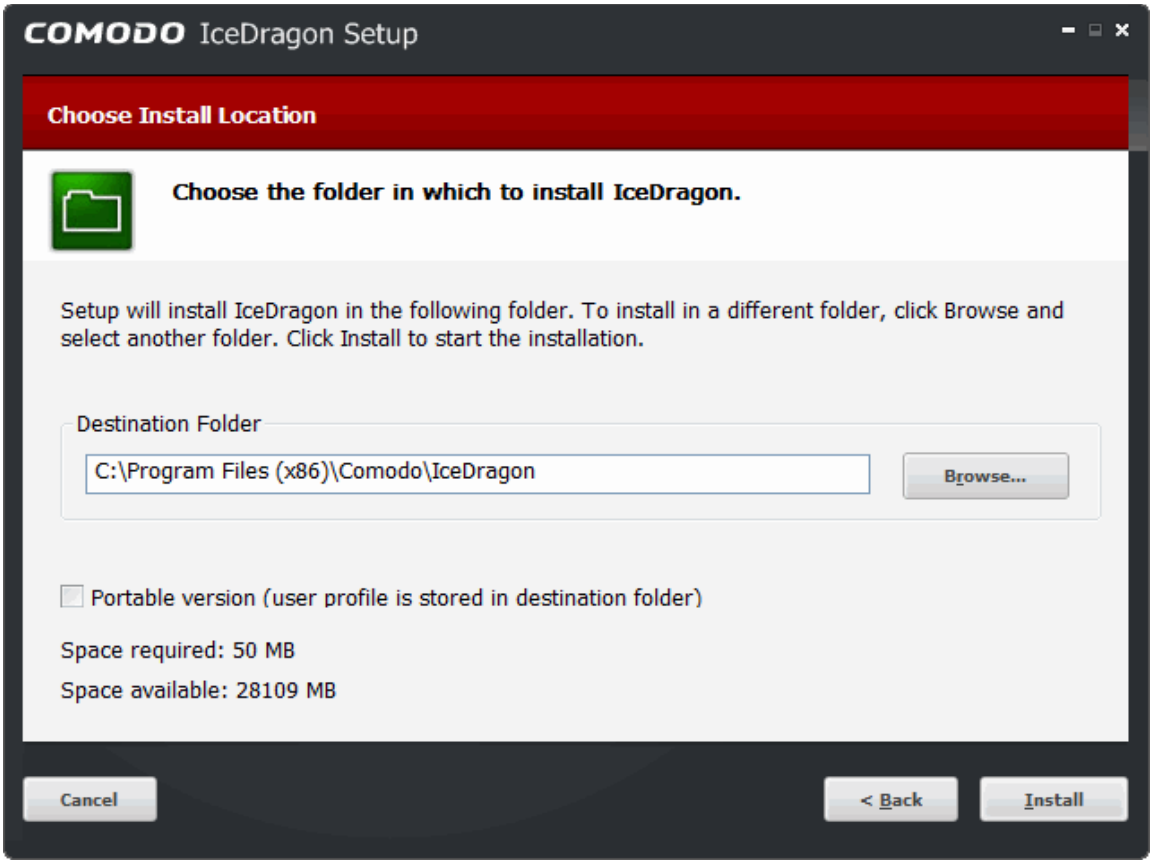


The EULA screen of the setup wizard is displayed. Complete the initialization phase by reading and accepting the End User License Agreement (EULA).

- Click 'I agree' button to continue the installation. Clicking 'Cancel' will abort the installation.

Step 2 - Select Installation Folder

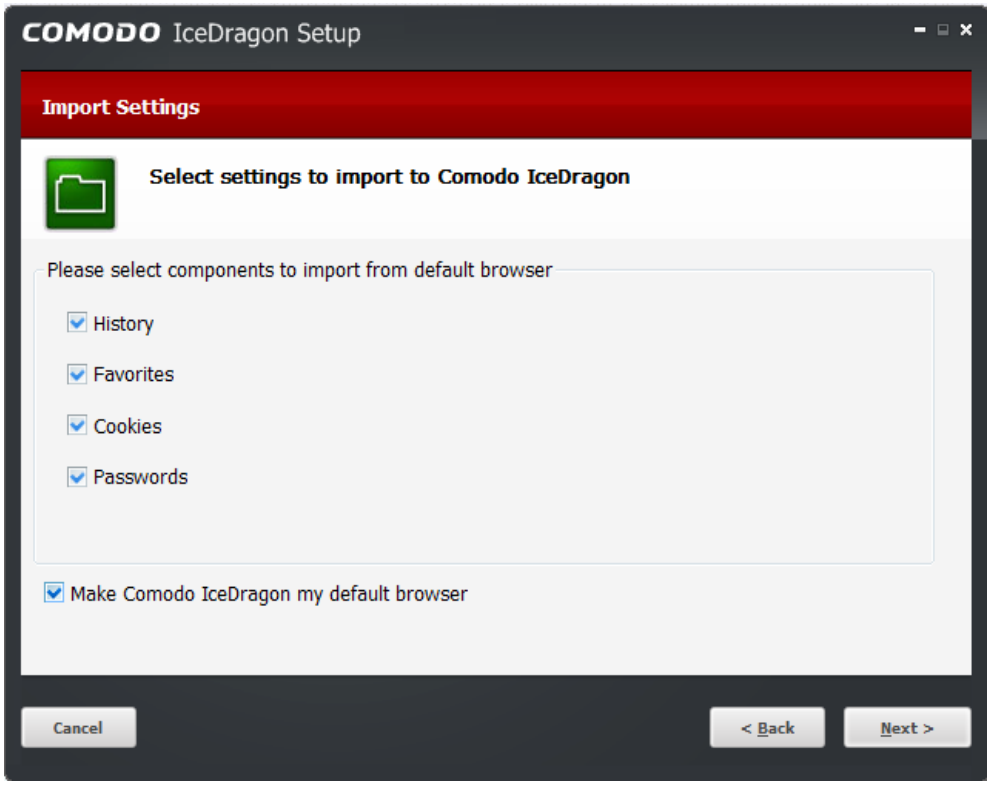
The next screen allows you to select the folder in your hard drive for installing Comodo IceDragon. The default installation paths are C:\ProgramFiles\Comodo\IceDragon (32 bit systems) and C:\Program Files(x86)\Comodo\IceDragon (64 bit systems).



If you want to install the application in a location other than the default location, click 'Browse' to choose a different location and click 'Next'.

Step 3 - Import Settings

The next screen allows you to select the components that you want to import from the current default browser in your computer to Comodo IceDragon.



Select the checkboxes beside the records that you wish to import from your default browser at this time.

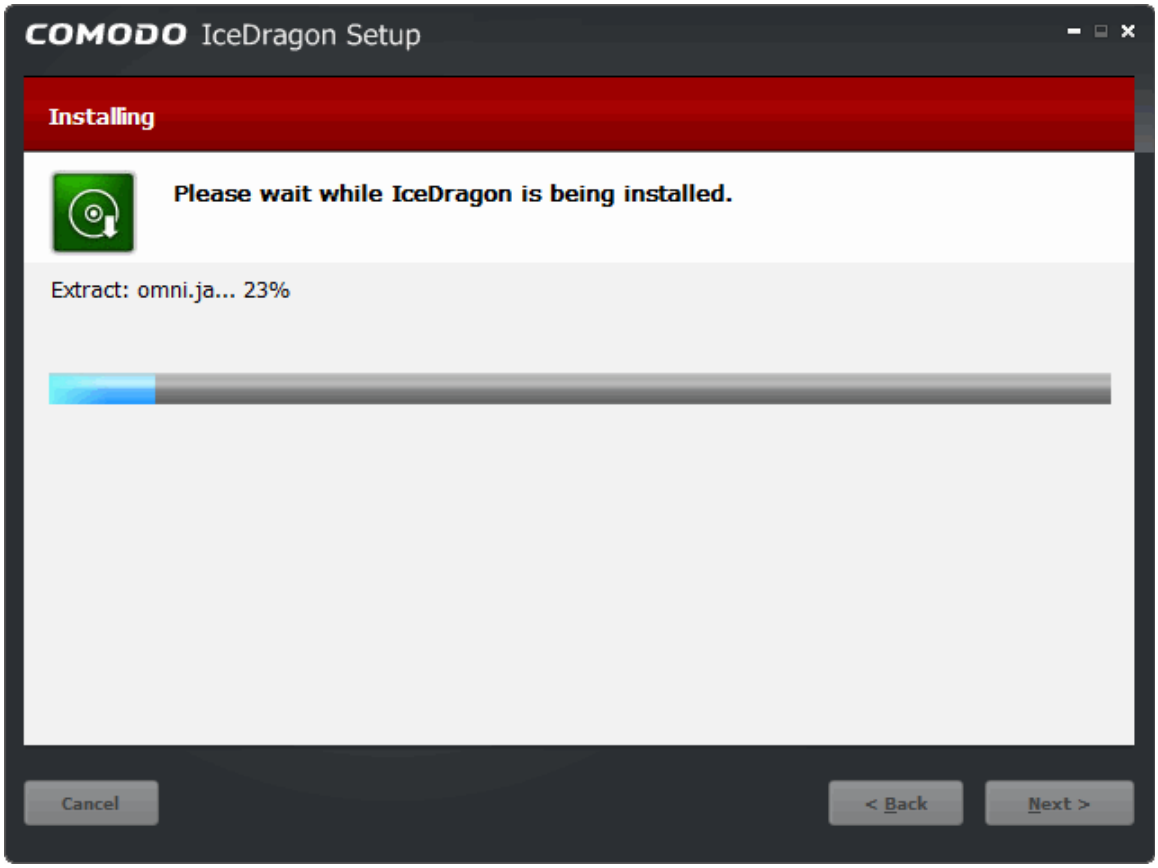
Tip: You can also import the records at later time if you have not selected any records at this time.

Leave the checkbox 'Make Comodo IceDragon my default browser' selected to make Comodo IceDragon your default browser. If you want to keep your current default browser intact, deselect the checkbox.

- Click 'Next' to continue.

Step 4 - Setup Progress

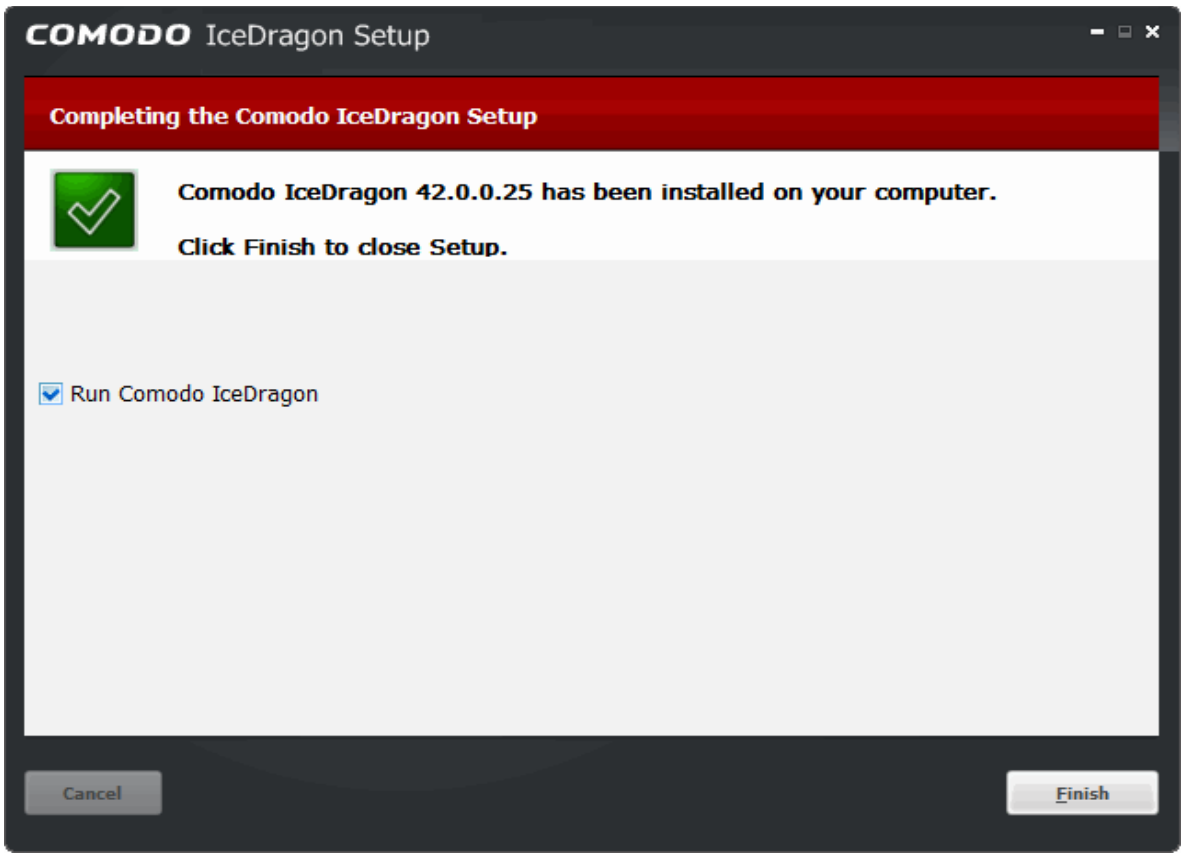
A setup status dialog box is displayed.



- Click 'Next' after the installation process is completed.

Step 5 - Installation Complete

The Installation Complete dialog is displayed indicating the successful completion of installation. Leave the checkbox 'Run Comodo IceDragon' selected to launch the browser else deselect it.



- Click 'Finish'

4. The Basics

This section of the guide explains how to launch, configure and use Comodo IceDragon to its full potential.

Click the following links to find out more:

- **Starting Comodo IceDragon**
- **Setting IceDragon As Your Default Browser**
- **Setting Up Your Homepage**
- **Searching The Internet**
- **Changing Search Options**
- **Customizing the Toolbar**
- **Re-opening Recently And Most Visited Websites In IceDragon**
- **Viewing Browsing History**
- **Setting Fonts, Languages And Encoding**
- **Configuring IceDragon Updates**
- **Portable Version**
- **Uninstalling IceDragon**

4.1. Starting Comodo IceDragon

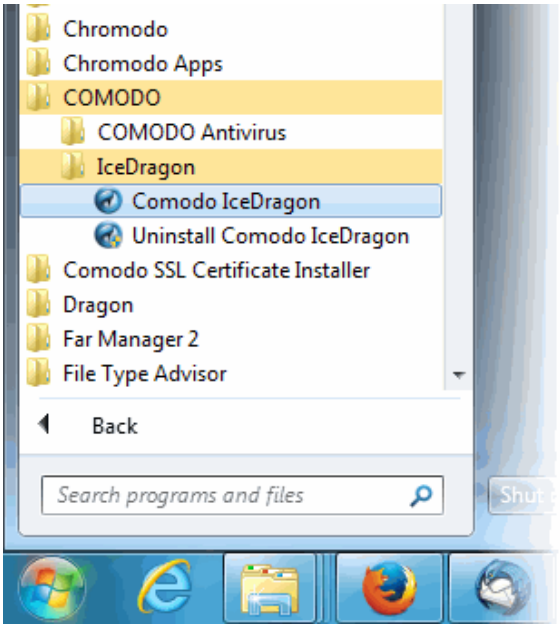
There are two different ways to start Comodo IceDragon:

- **Start Menu**
- **Desktop**

Start Menu

You can launch Comodo IceDragon via the Start Menu.

- Click **Start** and select **All Programs > Comodo > IceDragon > Comodo IceDragon**



Desktop

- Just double-click the Comodo IceDragon icon on your desktop.

Further reading related to the topic of this page:

- **Setting up Your Homepage**
- **Re-opening Recently and Most Visited Websites in IceDragon**
- **Setting IceDragon As Your Default Browser**

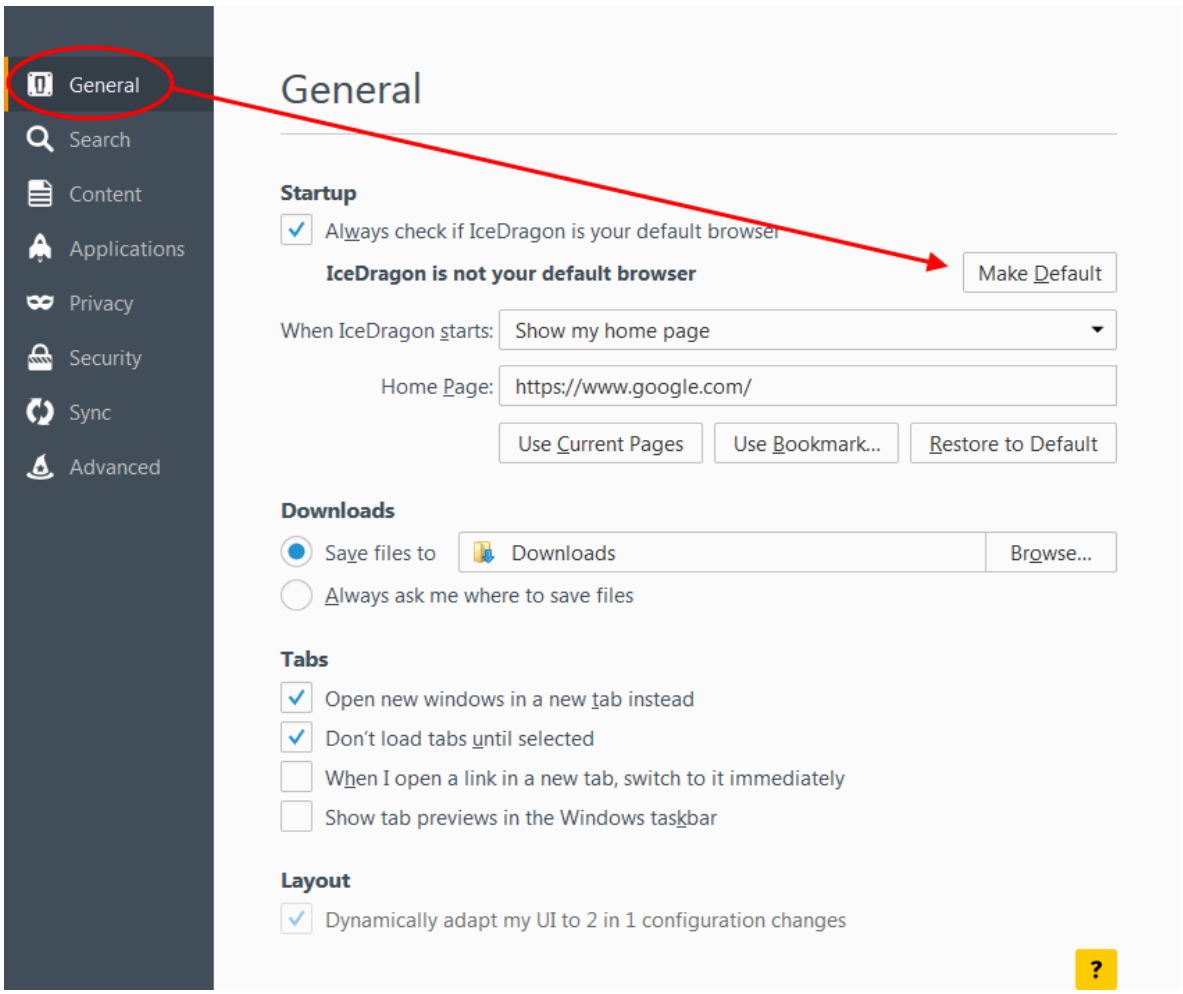
4.2. Setting IceDragon as your Default Browser

If you have more than one browser installed on your system, it's likely that you'll want to specify one of them as your default for everyday use. Setting IceDragon as your default browser means that it will automatically open and be used to display websites when you click a link in, say, an email or IM conversation.

To do this:

- Click the IceDragon menu located at the top right corner of the browser:

- Select 'Options' > 'General' tab.
- Then click the 'Make Default ' button



- Leaving the check 'Always check if IceDragon is the default browser ' box enabled will instruct IceDragon to check whether or not it is the default browser every time you start the software.

Related to this page:

- **Setting up Your Homepage in IceDragon**

4.3. Setting up Your Homepage

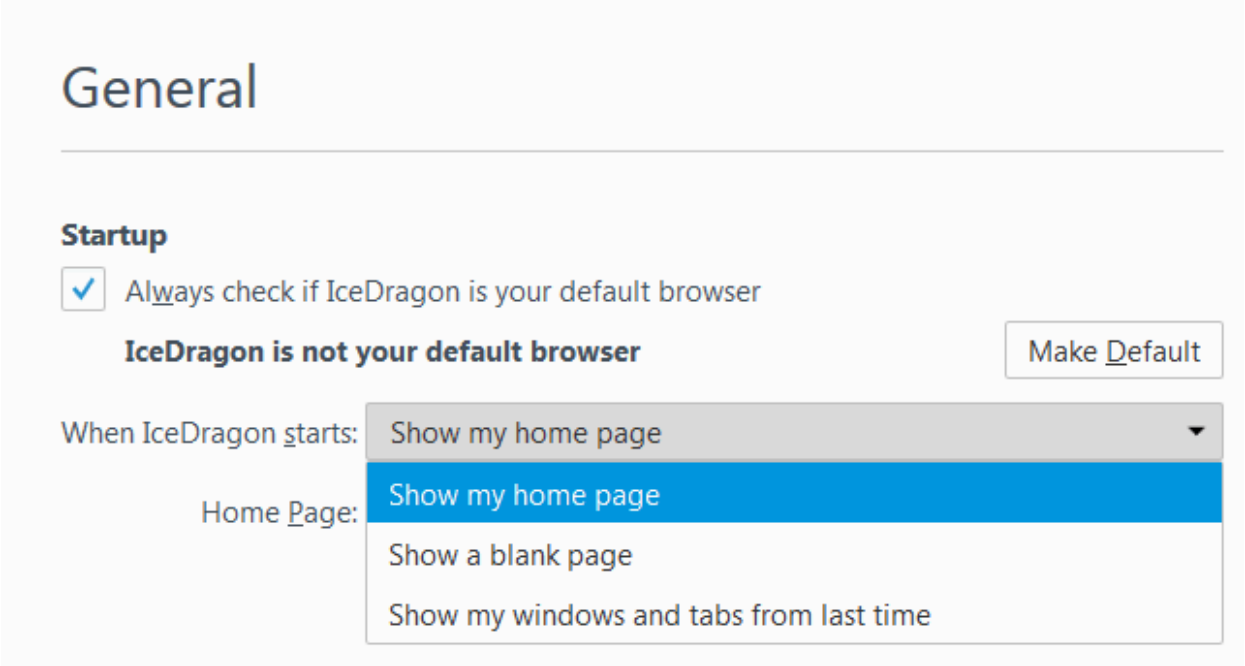
You can configure IceDragon to open by default at a specific web-page, to open multiple pages in different tabs, to open with a new blank page, or to open with whatever pages were open at the end of your last browsing session.

Click the following links for more help:

- **Configuring startup**
- **Configuring Home page**

Configuring startup

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click the 'Options' > 'General'.
- Select what to be displayed when the browser starts from the 'When IceDragon starts' drop-down



- Show my home page - Displays the home page(s). Refer to '**Configuring Home page**' for more details on setting up your favorite webpage as home page.
- Show a blank page - Displays a blank page.
- Show my windows and tabs from last time - Opens the page(s) you viewed last during the previous browsing session.

Configuring Home page

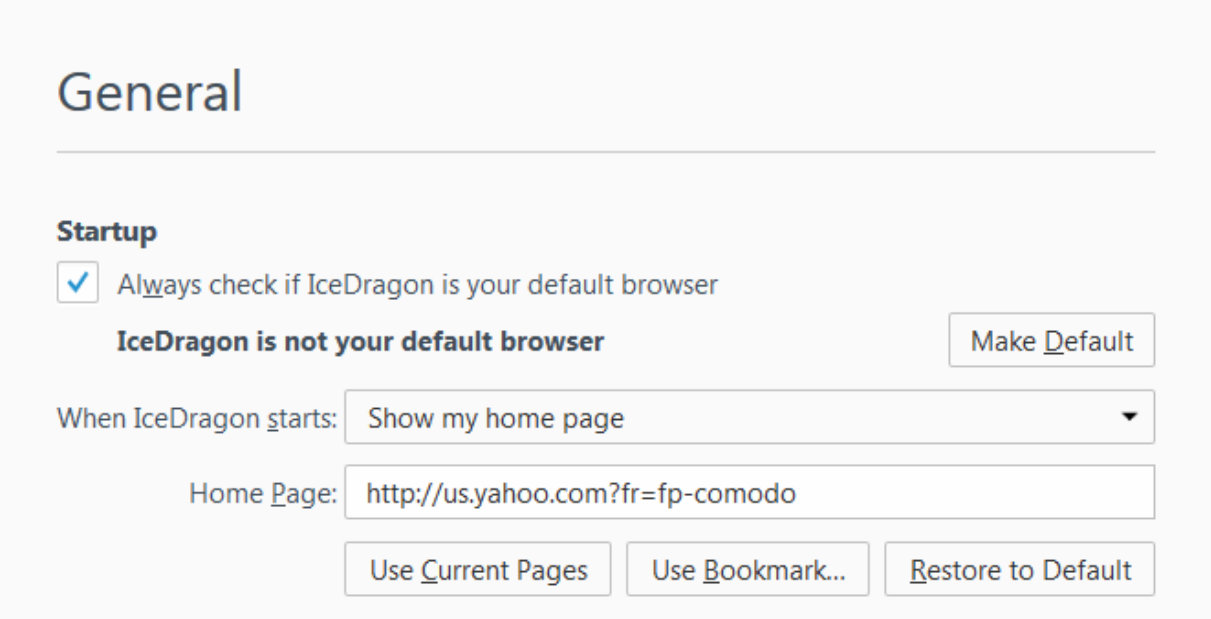
You can set your favorite webpage(s) as home page(s) in many different ways:

Enter manually

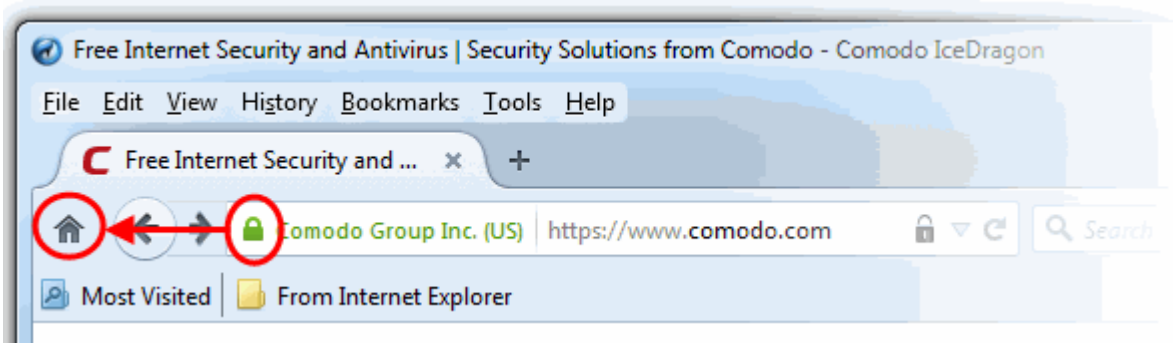
To setup the home page manually, type the url of the page in the 'Home Page' text field

From the currently displayed page(s)

- Open up your favorite page(s) in the browser. Click 'Tools '> 'Options' > 'General' and click 'Use Current Pages' under 'Startup'.

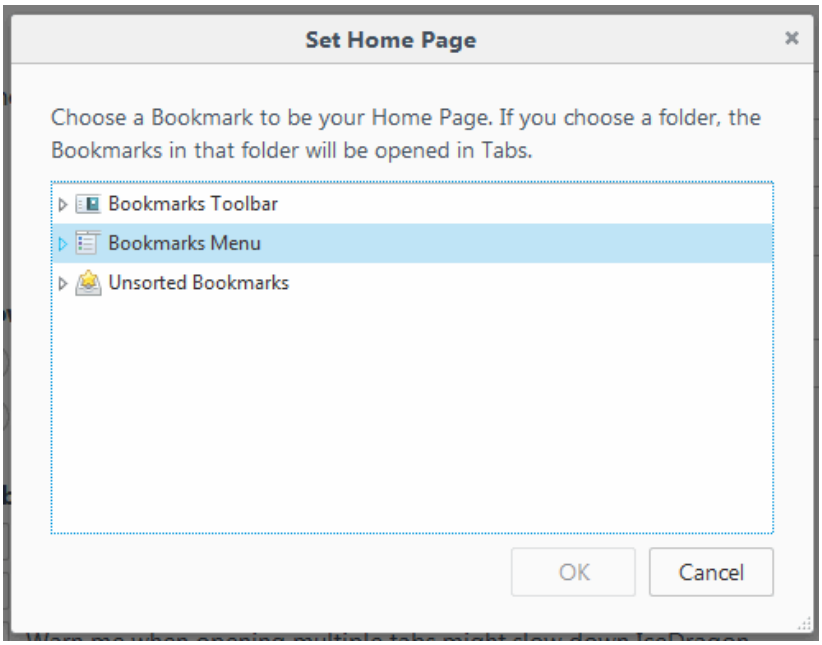


Alternatively, drag the favicon or lock icon displayed to the left of the URL and drop it onto your 'Home' button.



From the Bookmarks

- To select a web page from your stored bookmarks click 'Tools' > 'Options' > 'General' and click 'Use Bookmark'.



- Select your favorite page from the list and click 'OK'.

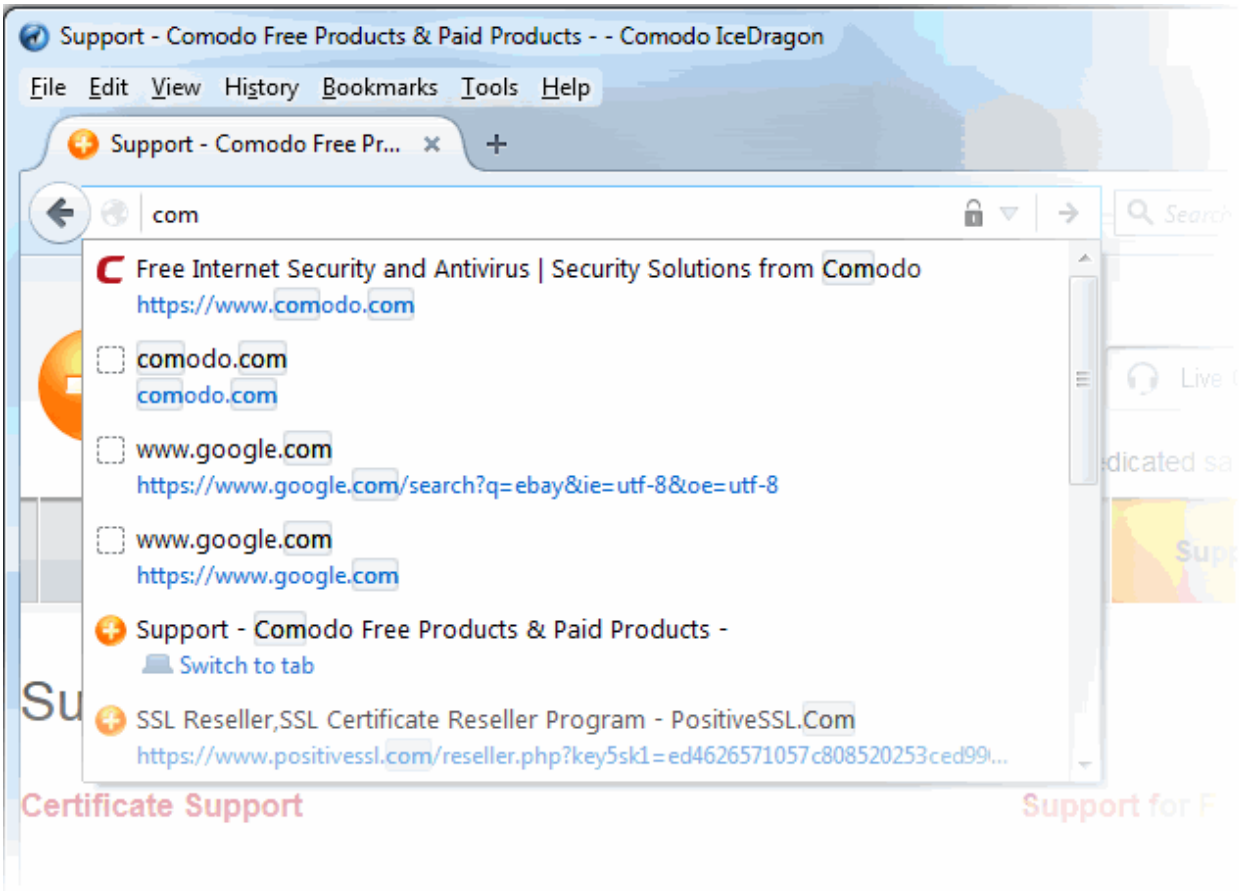
Setting Default Home Page

If you want to return to using Yahoo as your home page, click 'Tools' > 'Options' > 'General' and click 'Restore to Default'.

4.4. Searching the Internet

The Comodo IceDragon address bar also serves as a search box. By default, keywords typed into the address bar will use Yahoo as the search engine:

- Enter your keywords or phrases into the address bar.
- To search, click the arrow at the right side of the address bar or press 'Enter' on the keyboard.



- When you start typing a website address in the address bar, the browser automatically searches your browsing history and your bookmarks and, provides auto-complete suggestions from them. This allows you to easily find pages you have previously visited.
- You can change the default search engine as per your preference. Please see '**Changing Search Options**' for more details.

Click the links below for different ways to search the Internet

- **Search using the Search Box in the navigation tool bar**
- **Search within a webpage**
- **Search the Internet for a keyword from within a webpage**

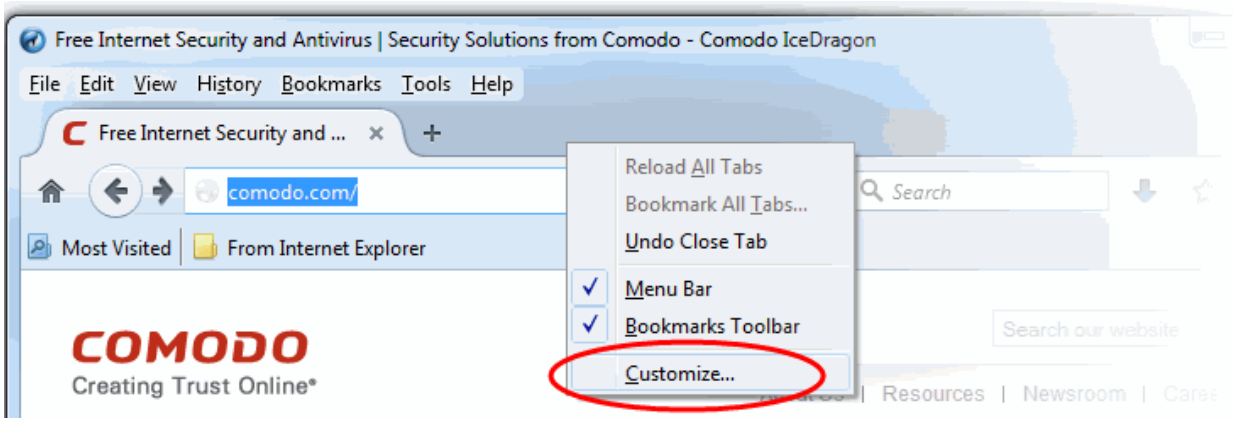
Searching using the Search Box in the tool bar

Comodo IceDragon can also display a dedicated search box to the right of the address bar. The search box is not displayed by default. To add it:

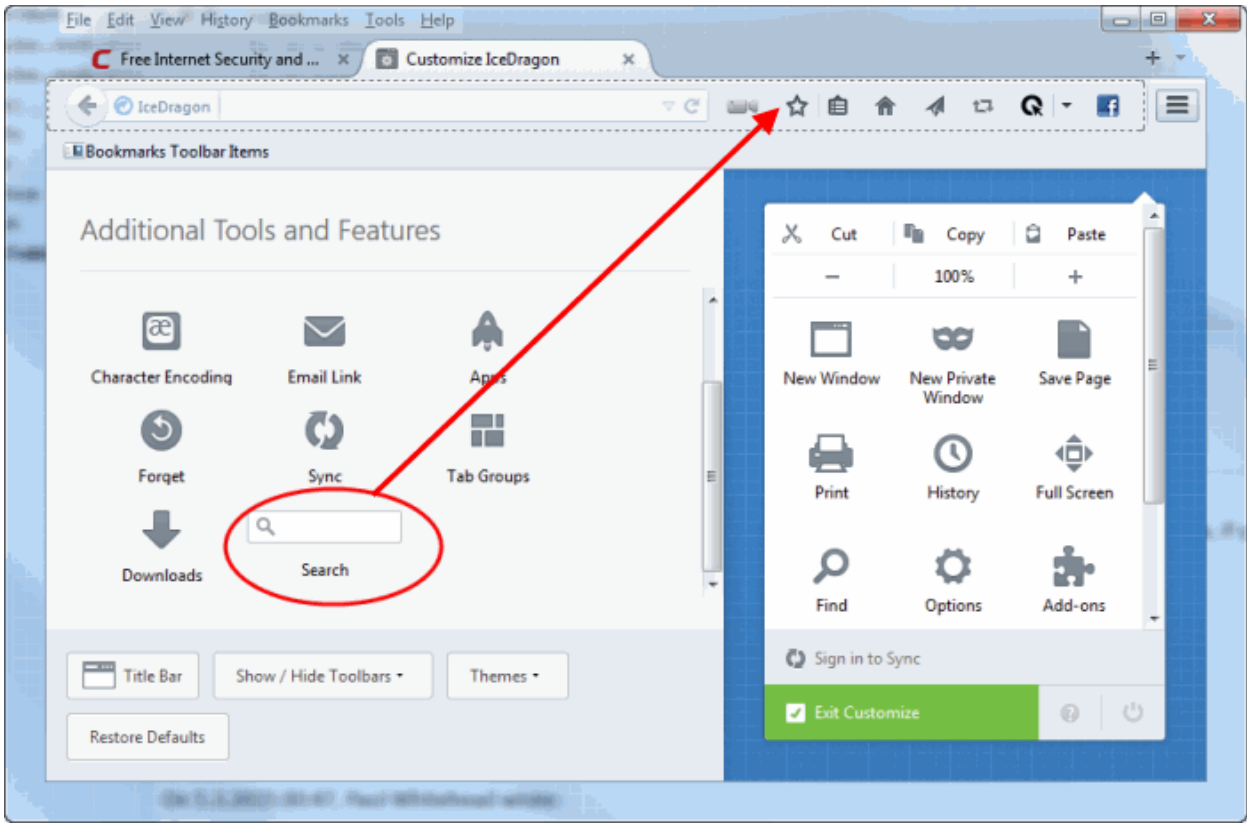
- Right-click anywhere on the file menu or navigation bar and select 'Customize

  OR

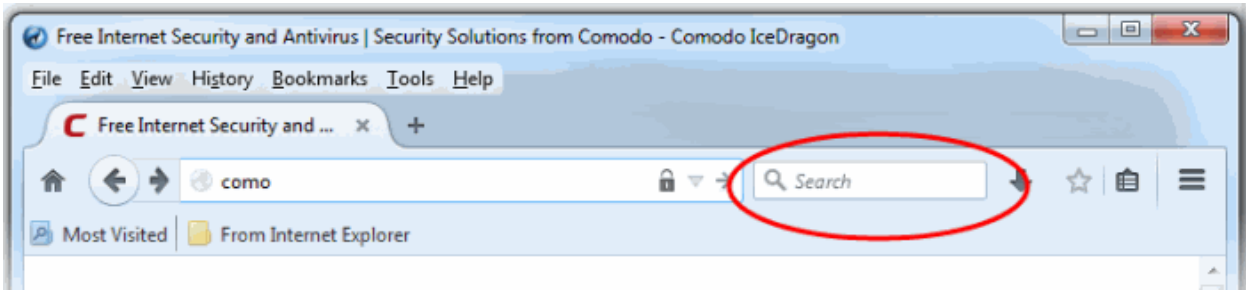
- Click the menu icon located at the right top of the interface and click the 'Customize' button



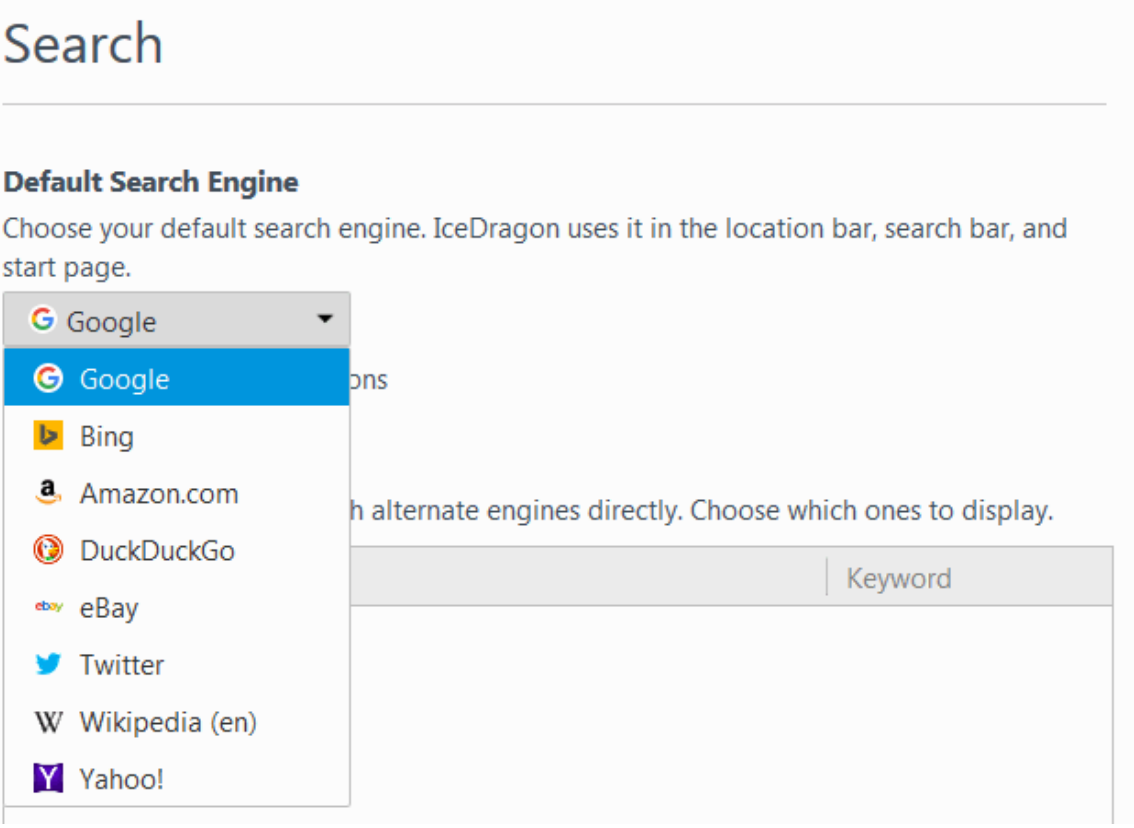
- This will open the 'Customize Toolbar' panel. This panel allows you to simply drag the items you want onto the navigation bar
- Drag the 'Search' box to the navigation tool bar.



- Click 'Exit Customize'. The search box will appear in the navigation tool bar.



- By default, the search box uses Yahoo. To change this, click the magnifying glass in the search bar and click the 'Change Search Settings'. That will open the 'Default Search Engine' under the 'Search' tab in the 'Options' dialog with list of alternatives. Select your favorite search engine from the drop-down.

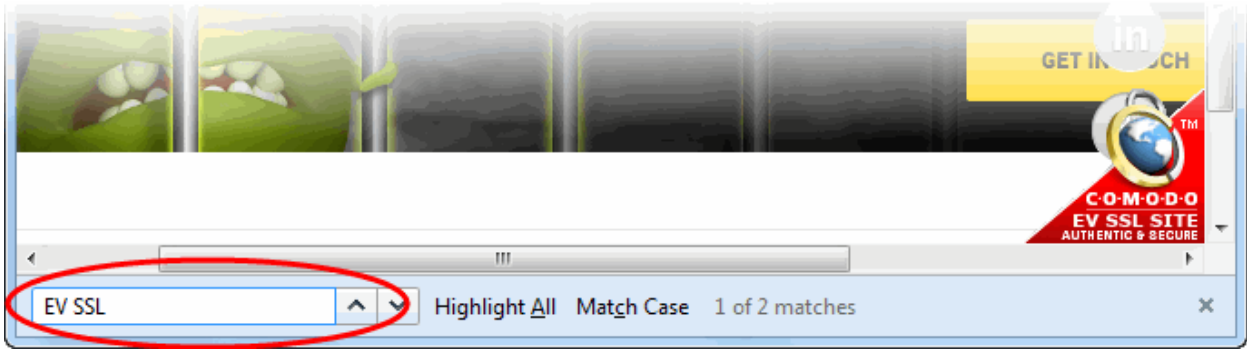


Searching within a webpage

To search for a specific keyword/phrase from within a webpage.

- Click the Ice Dragon menu located at the top right corner of the browser and click 'Find '

  or
- Press Ctrl + F on the keyboard.
- A 'Find' box will be displayed at the bottom right of the window:



- Enter your search key in the 'Find' box and click on the arrow or 'Match Case', The key term will be highlighted at its first occurrence in the web page.
- To find the successive occurrences, click 'Match Case'.
- f you want the browser to highlight the key term at all its occurrences, click 'Highlight All'.

Searching the Internet for a keyword from within a webpage

- Highlight the word/phrase using your mouse, right click and select Search <your default search engine > for "<selected keyword>".

- Highlight the word/phrase using your mouse, copy using right click options or pressing Ctrl + C and paste it in to the address bar or the search box.
- Highlight the word/phrase using your mouse and drag it and drop in the address bar or the search box.

Further reading related to the topic of this page:

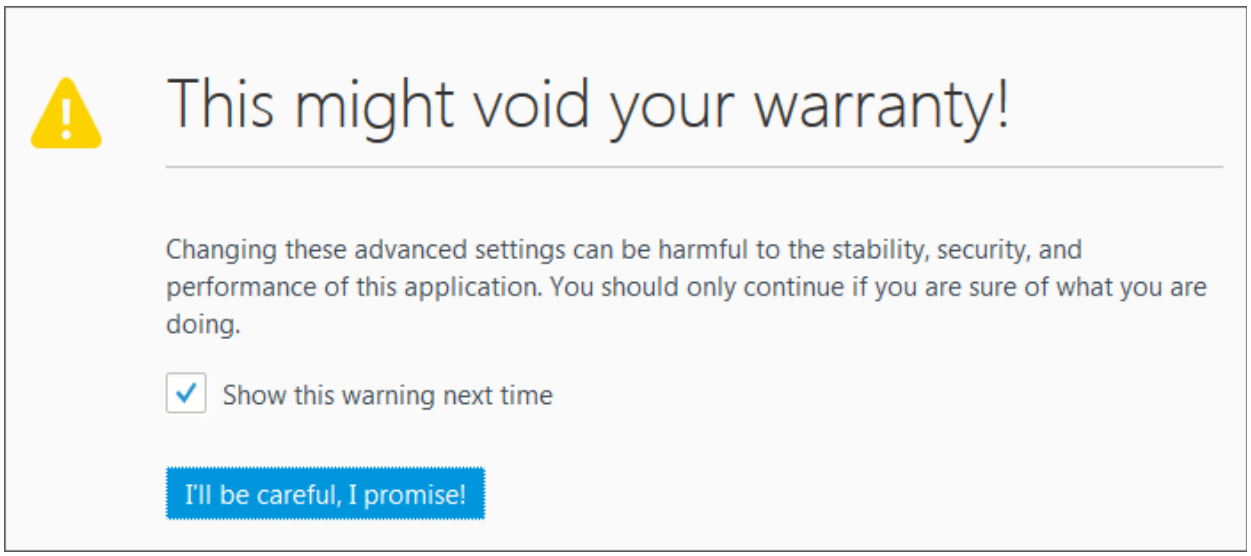
- **Bookmarks**
- **Viewing Browsing History**
- **Downloads**

4.5. Changing Search Options

- **Change the search engine used for keywords entered in the address bar**
- **Turn keyword search off**
- **Configuring URL Suggestions**

To change the search engine

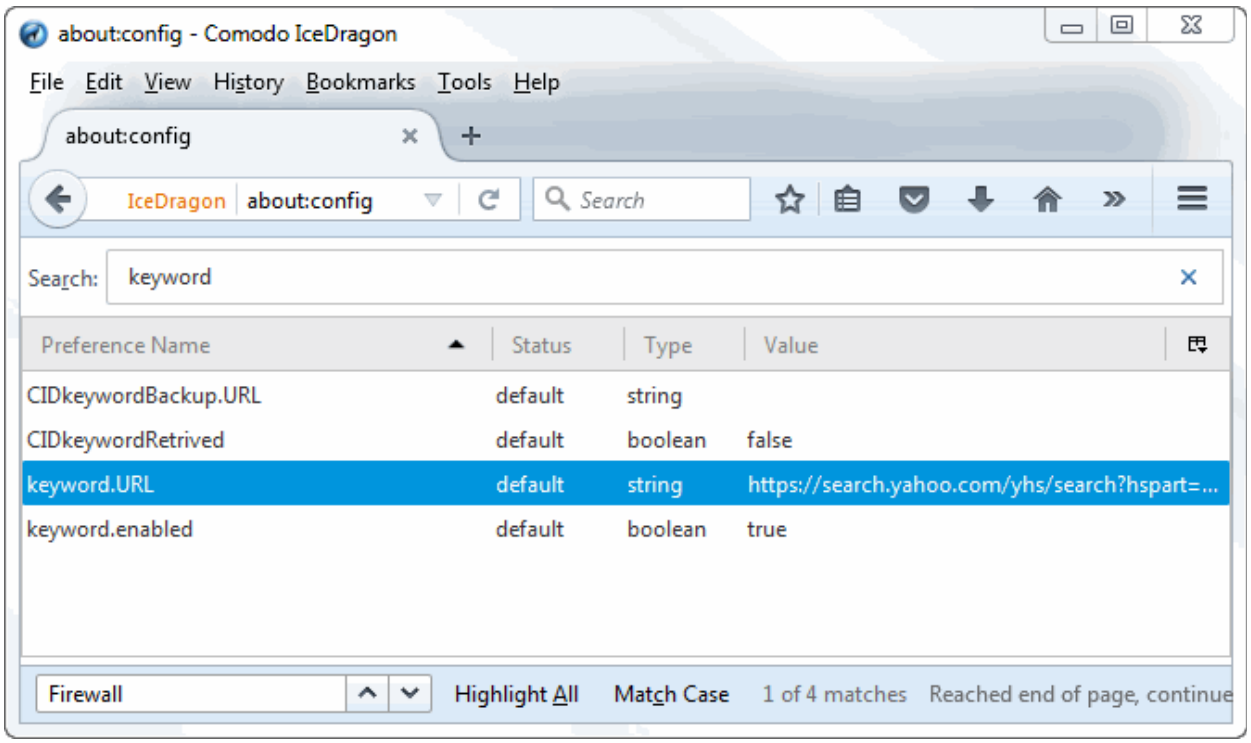
- Type '*about:config*' in the address bar and press 'Enter' from the keyboard
- A warning will be displayed.



- Click 'I'll be careful, I promise!'

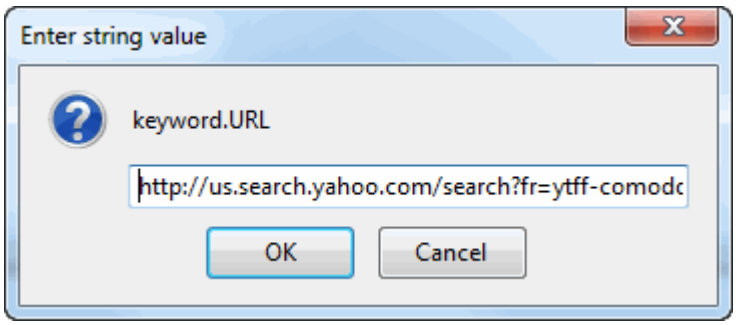
The configuration page will be displayed.

- Type 'keyword' in the search field then double click in the **Keyword.URL** entry.



The **Keyword.URL** dialog will be displayed.

- Type the URL for your desired search engine



Examples:

- To use Yahoo! Search engine, type “http://search.yahoo.com/search?p=”
- To use Bing search engine, type “http://www.bing.com/search?q= ”
- To search Wikipedia for the keyword, type “http://en.wikipedia.org/wiki/”

- Click 'OK'
- To reset to Yahoo search engine, erase the content in the **keyword.URL** dialog and click 'OK'

To turn keyword search off

- Type '*about:config'* in the address bar and press 'Enter' from the keyboard
- Click 'I'll be careful, I promise!' in the warning dialog to view the About Config page
- Type Keyword in the search bar to reach the item 'keyword.enabled'
- Double click on the item to change the value of the item to 'false'

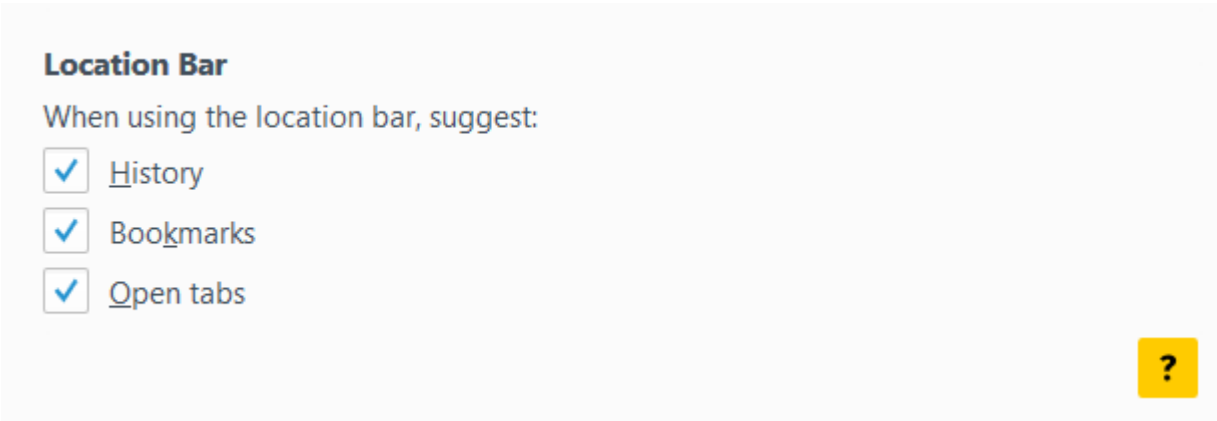
The keyword search from the address bar will be stopped. To enable the feature again, follow the same procedure to change the value to 'true'.

Configuring URL Suggestions

Comodo IceDragon displays a list of suggestions as you start typing a URL in the address bar by searching matching strings from your browsing history and bookmarks. You can configure the items to be searched for providing suggestions.

To configure suggestions

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Privacy'
- 'Location Bar' - Leave all check boxes enabled to draw suggestions from History, Bookmarks and Open tabs when typing in the address bar.



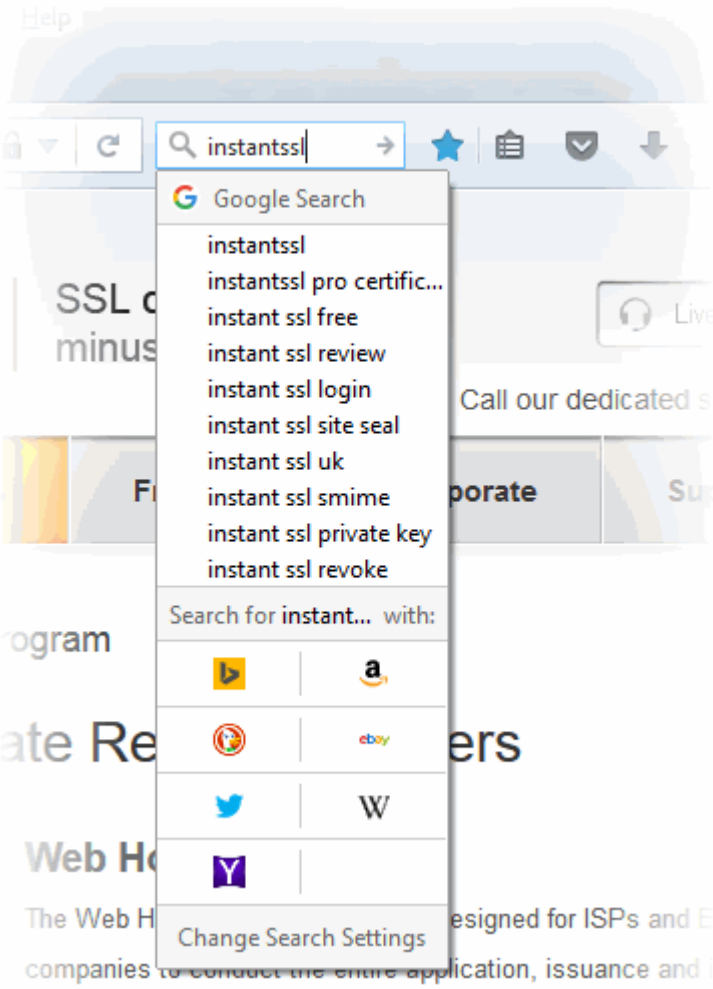
Enabling or disabling search suggestions

You can enable or disable search suggestions in two ways:

- **through the Search Bar**
- **through the Search Engines Manager**

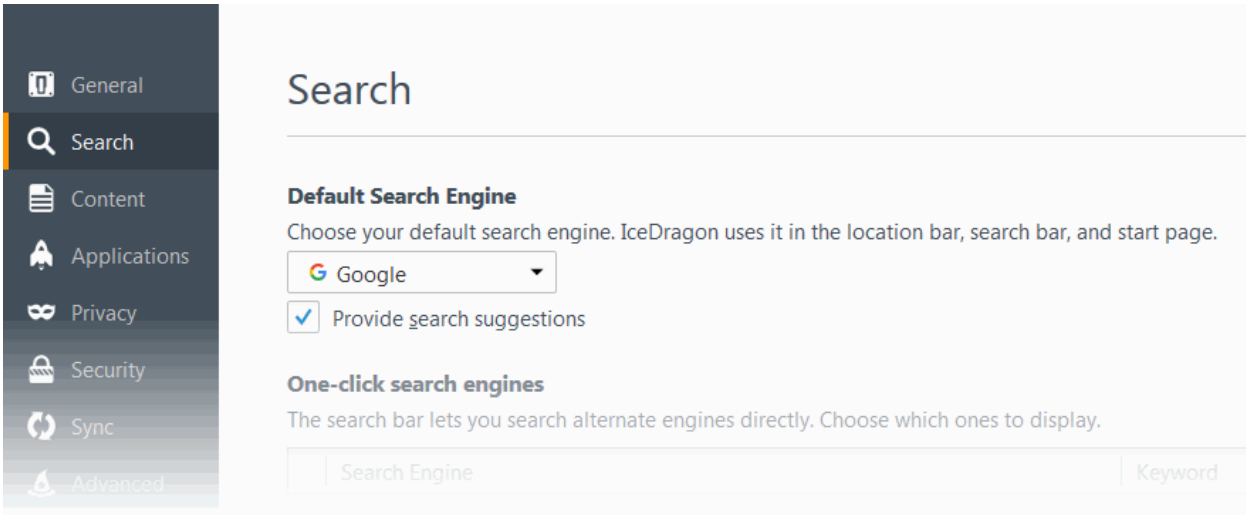
To enable or disable search suggestions through the Search Bar

- Right-click on the Search bar
- Deselect 'Show Suggestions'



To enable or disable search suggestions through the Search Engines Manager

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Search' tab
- Uncheckbox/ checkbox 'Provide search suggestions' to disable / enable search suggestions

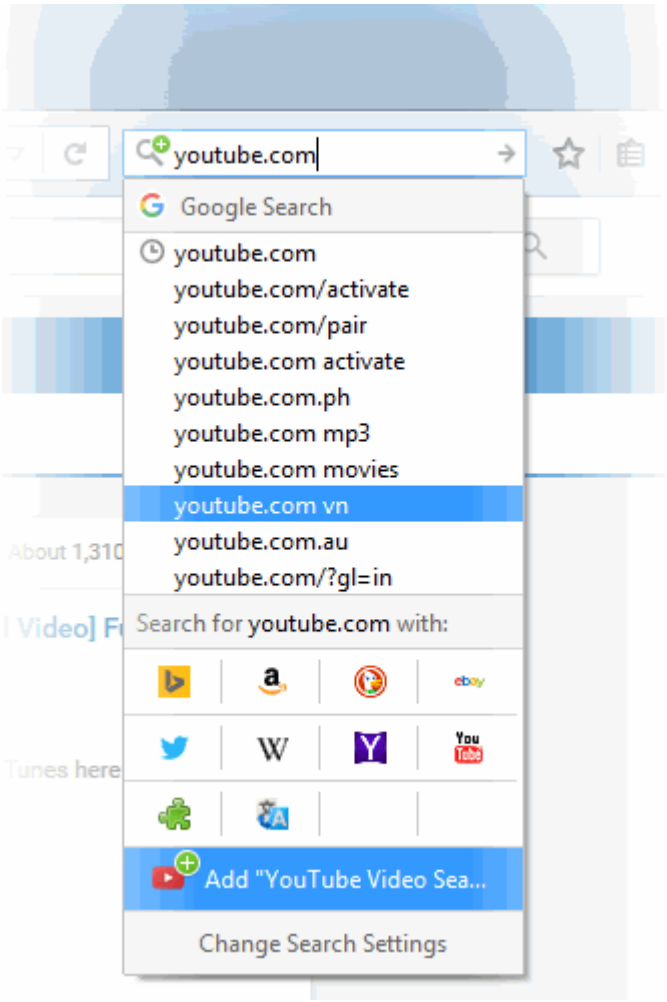


To add search engines using add-ons

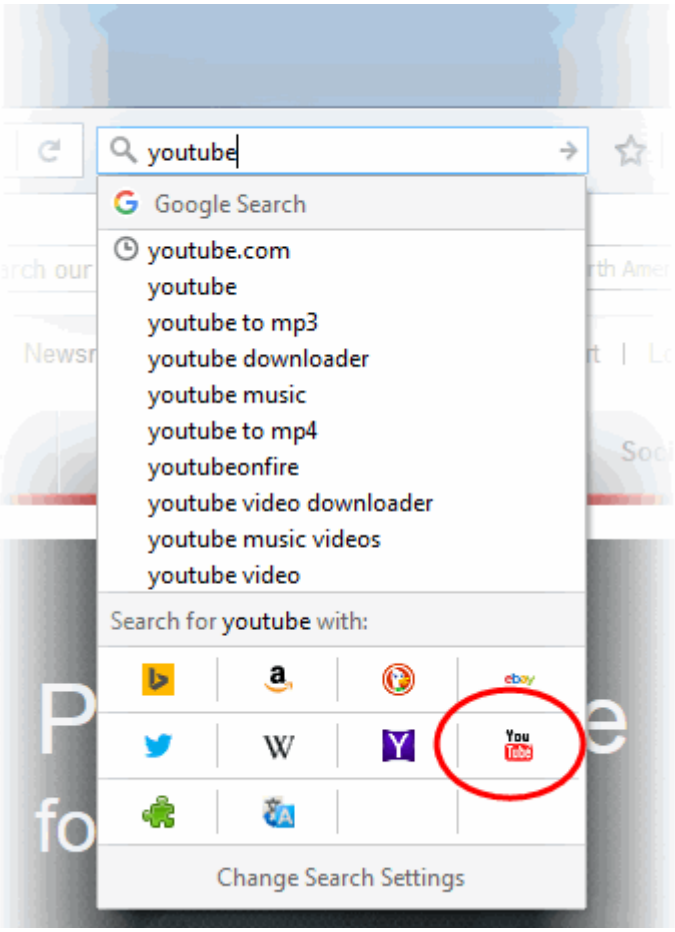
- Click on the magnifying glass in the Search bar
- The 'Options' will be opened
- Click the 'Add more search engines' link
- You will be taken to the Firefox add-ons

To add a specific search engines

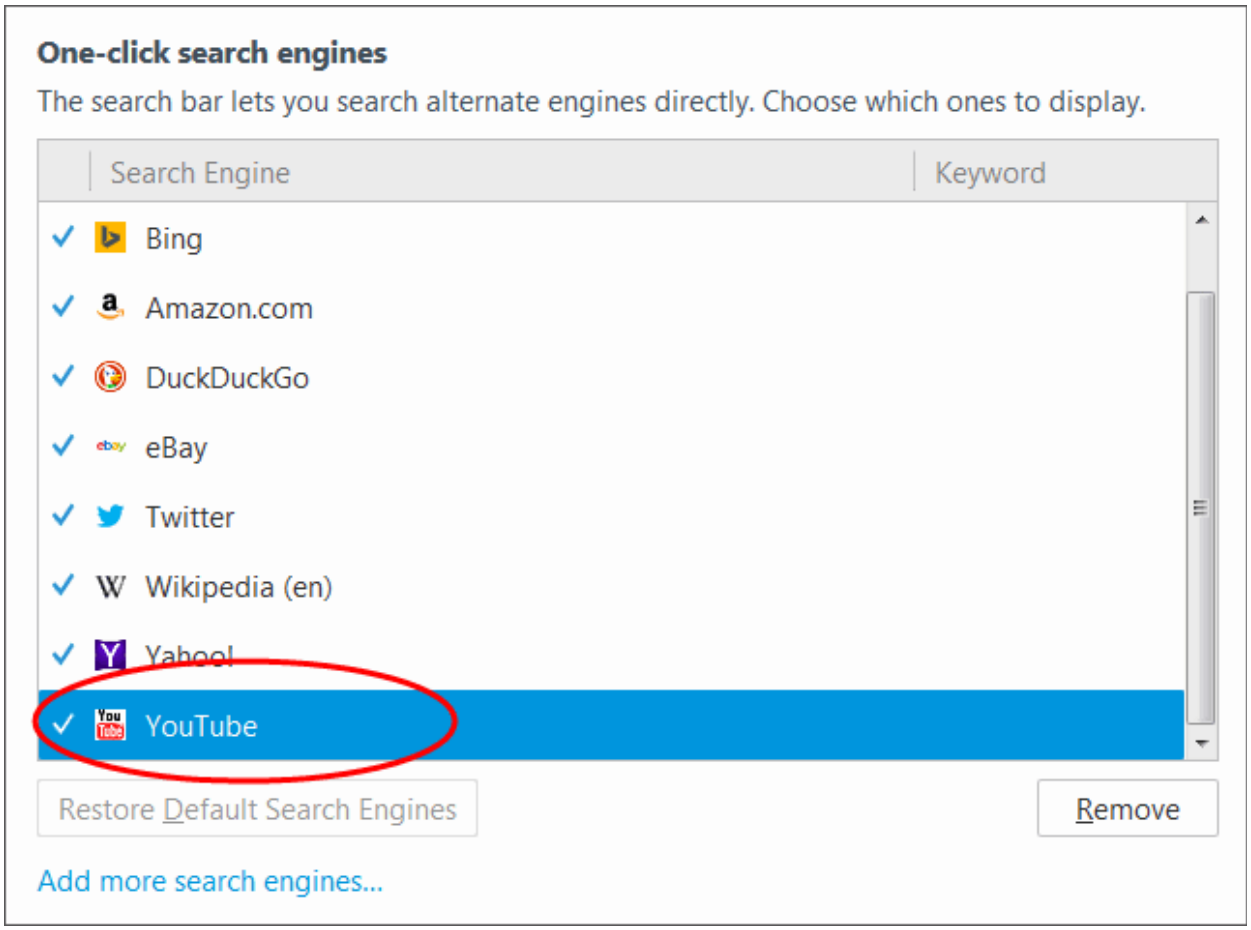
- Open the website
- Click on the magnifying glass on the Search bar



It will be appeared in your built-in search options

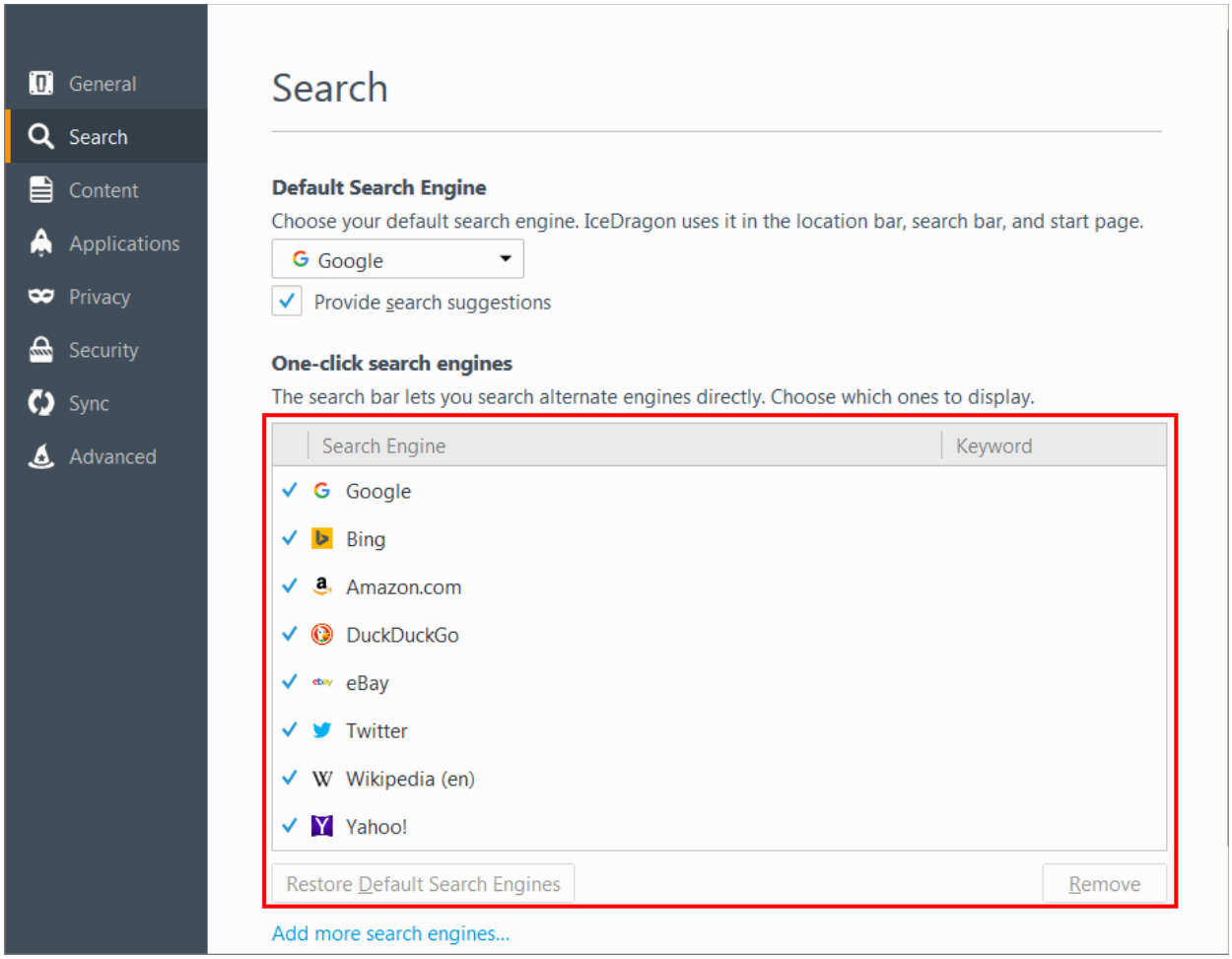


...and in your Default Search Engine list.



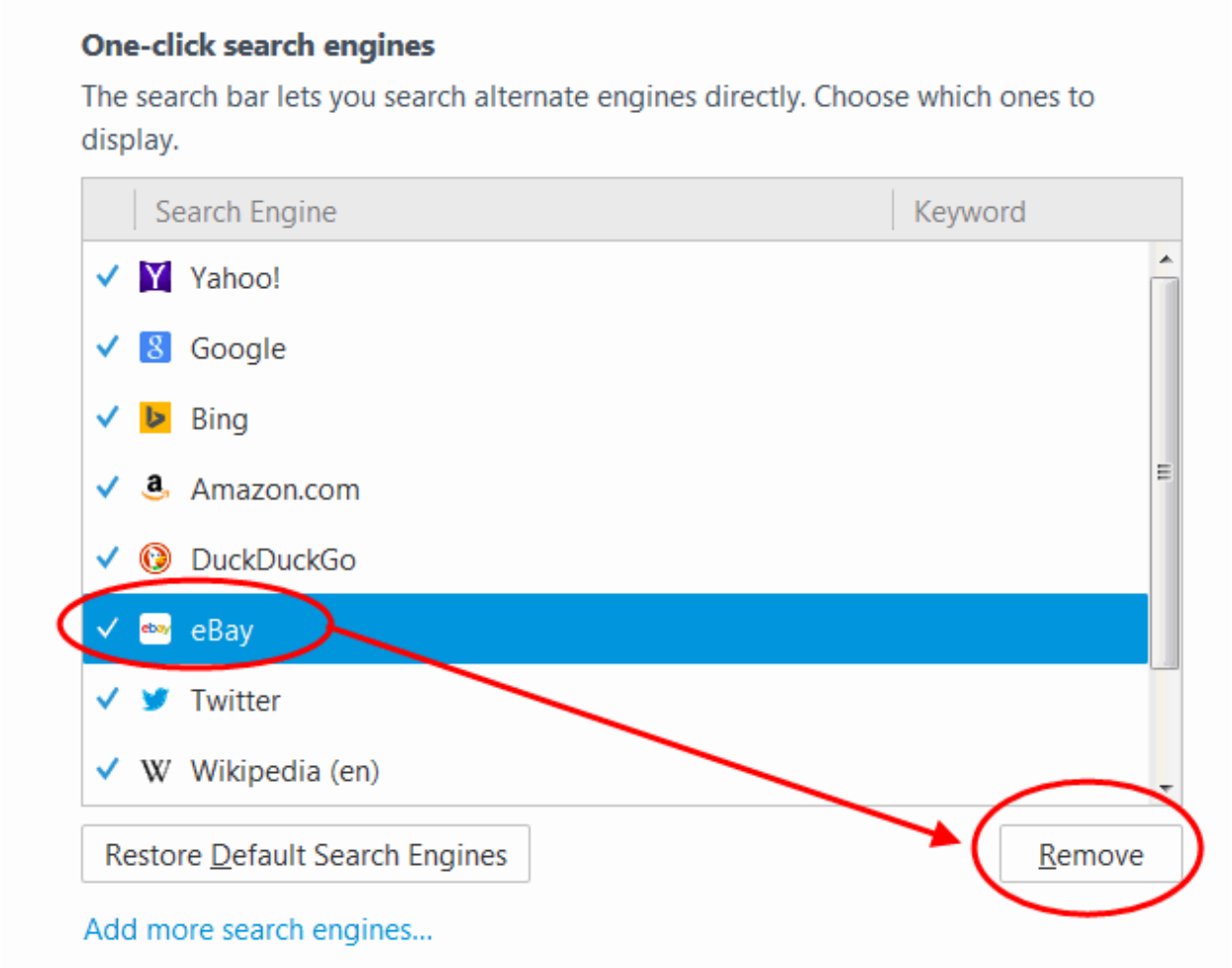
To hide search engines

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Search' tab
- Uncheck the mark next to each search engine.



To remove search engines

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Search' tab
- Alternatively, click on the magnifying glass in the Search bar on your toolbar and click the 'Change Search Settings '
- Select the search engine you are want to delete
- Click 'Remove' to remove from your list



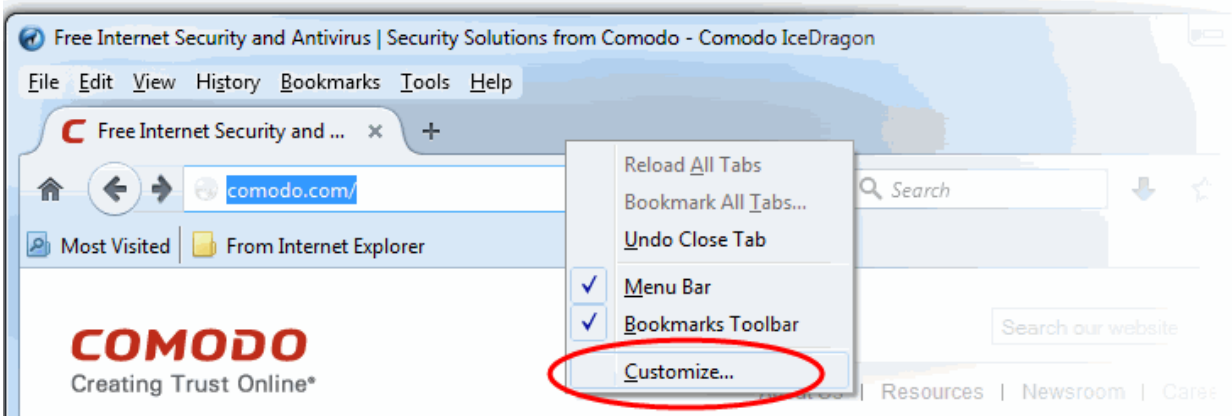
- Click 'Restore Default Search Engines' to add it back to the list.

4.6. Customizing the Toolbar

The IceDragon toolbar contains shortcuts to items such as your homepage and bookmarks. The contents of the toolbar are fully customizable.

To add or remove items on the toolbar

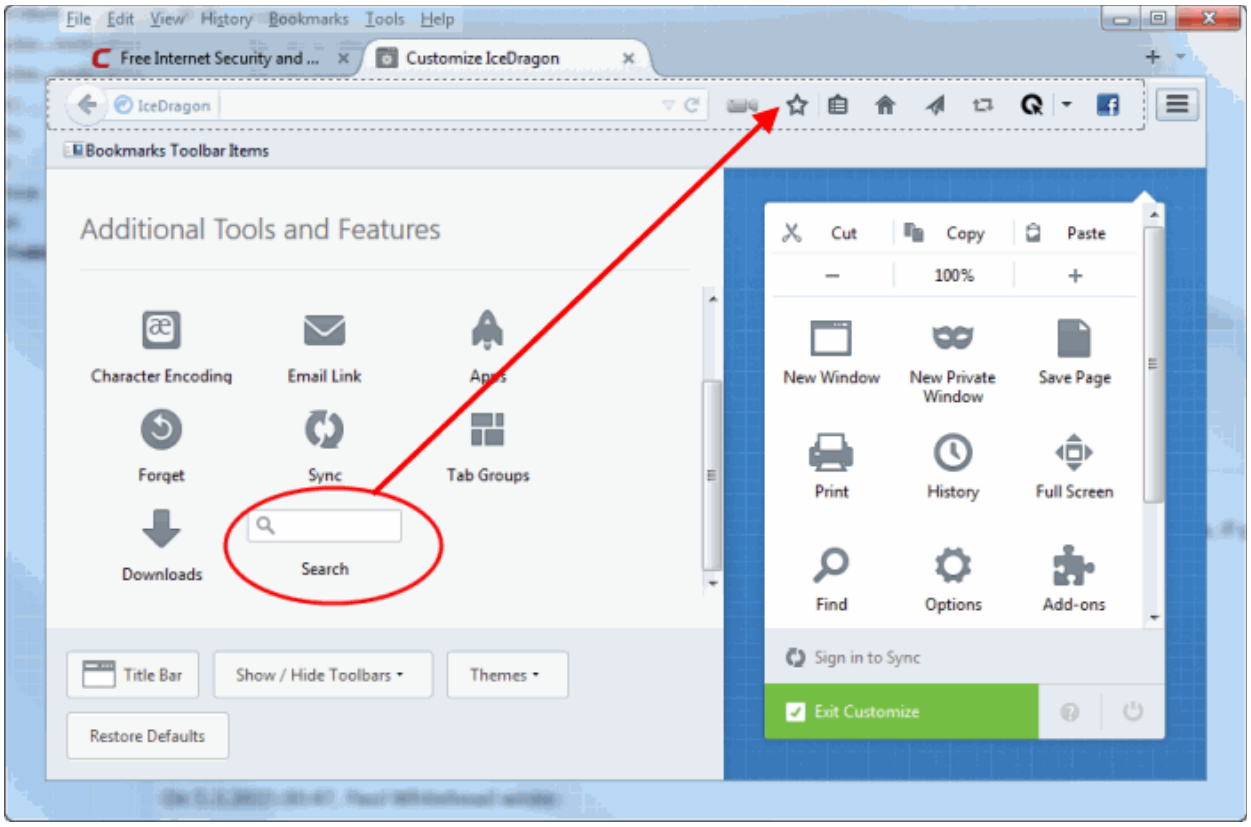
- Right-click anywhere on the file menu or navigation bar and select 'Customize'



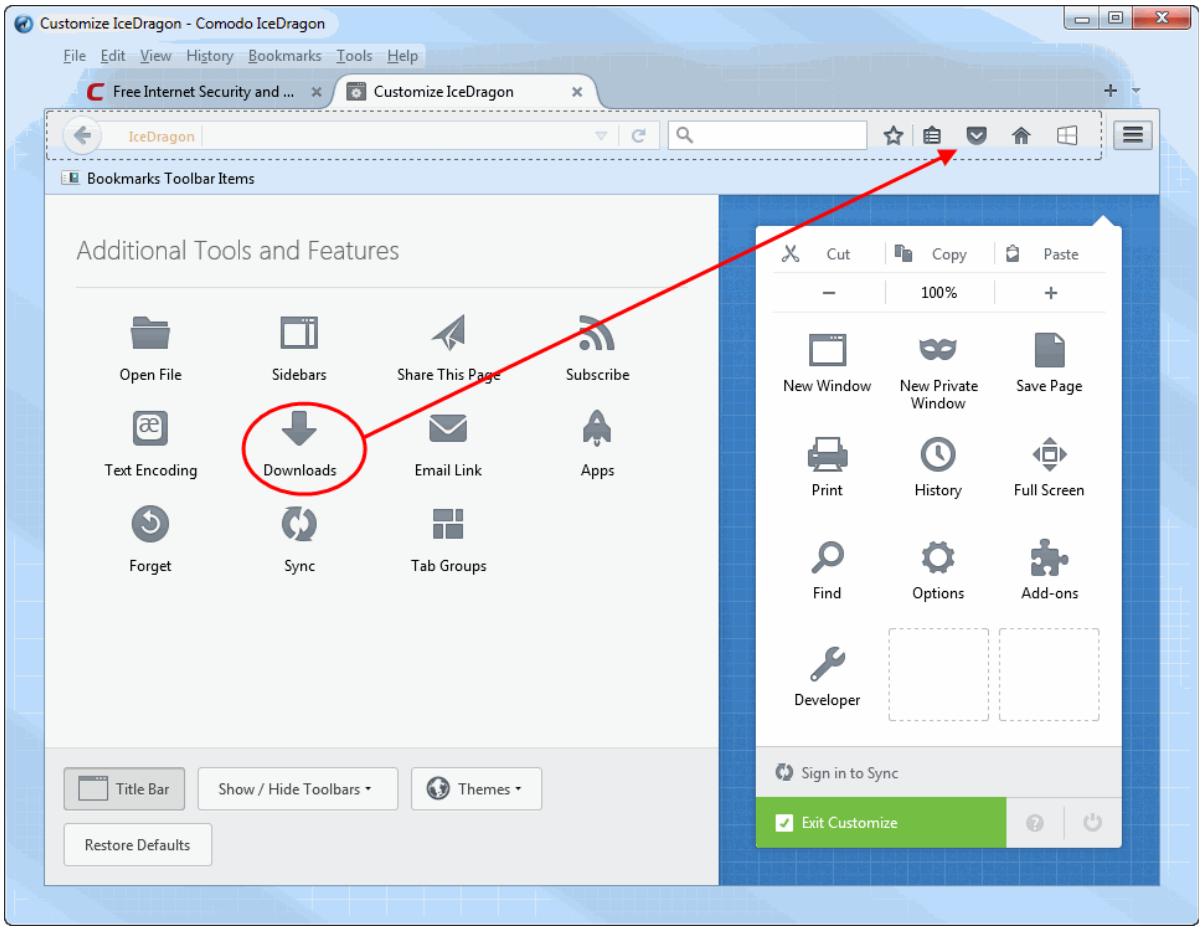
- This will open the 'Customize Toolbar' panel. This panel allows you to simply drag the items you want onto

the navigation bar

- The example below shows how to drag the 'Search' box to the navigation tool bar.

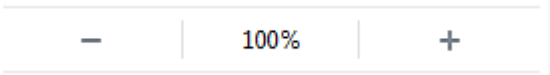


- To add a tool, drag it from the dialog and drop on the toolbar. Refer to the **table below** for descriptions of icons.
- To remove a tool, drag it from the toolbar and drop it into the 'Customize Toolbar' interface
- Click on the 'Title Bar' ti display or hide the title bar
- Use the 'Show/Hide Toolbars:' drop down to check or uncheck the Menu bar or Bookmarks toolbar
- To set a theme, click the 'Theme' drop down to 'Manage' or 'Get more theme'. You will be taken to IceDragon *about:addons* or Firefox add-ons webpage
- Click 'Restore Default' to return IceDragon toolbars to their original state
- Click 'Sign in to sync' to share your data and preferences through your devices.



- Click 'Exit Customize' for your settings to take effect.

Table of Icons and their Descriptions

Icon	Description
	Cuts the selected text from the form fields of the currently displayed page and copies to the clipboard
	Copies the selected text from the currently displayed page to clipboard
	Pastes the text in the clipboard to the selected form field in the current page
	Zooms out/Zooms in the currently displayed page
	Opens a new Comodo IceDragon window
	Opens a new private window

	Prints the currently displayed page
	Opens the History sidebar that show a list of recently visited pages
	Displays the current page in Full Screen view
	Find item in the current page
	Opens Options interface
	Opens Add-ons interface that shows a list of your Appearence
	Opens the web developers tools interface
	Inserts a search box to the navigation toolbar.
	Opens the Downloads dialog that shows the list of previous downloads and progress of the current download
	Enables subscription of RSS feeds from the currently displayed page.
	Switches the IceDragon window to Tab Groups view.
	Opens the Bookmarks window that shows a list of your bookmarks.
	Opens the Firefox market place
	Saves the currently opened page on html format
	Provides a quick access to the file from your computer

	Provides a quick access to the fonts Unicode ranges
	Opens a new Comodo IceDragon tab
	Opens the Bookmarks or History Sidebar
	Shares by an interesting web page through the email directly from the open IceDragon window.
	Shares links to webpages or specific items from a page

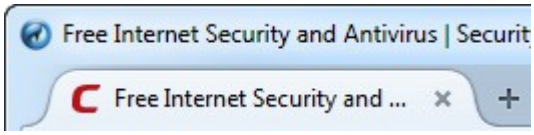
4.7. Re-opening Recently and Most Visited Websites

If you accidentally closed a page without bookmarking and decide you need to see it again, then you can use the 'Most visited' and 'Recently Closed Tabs' features.

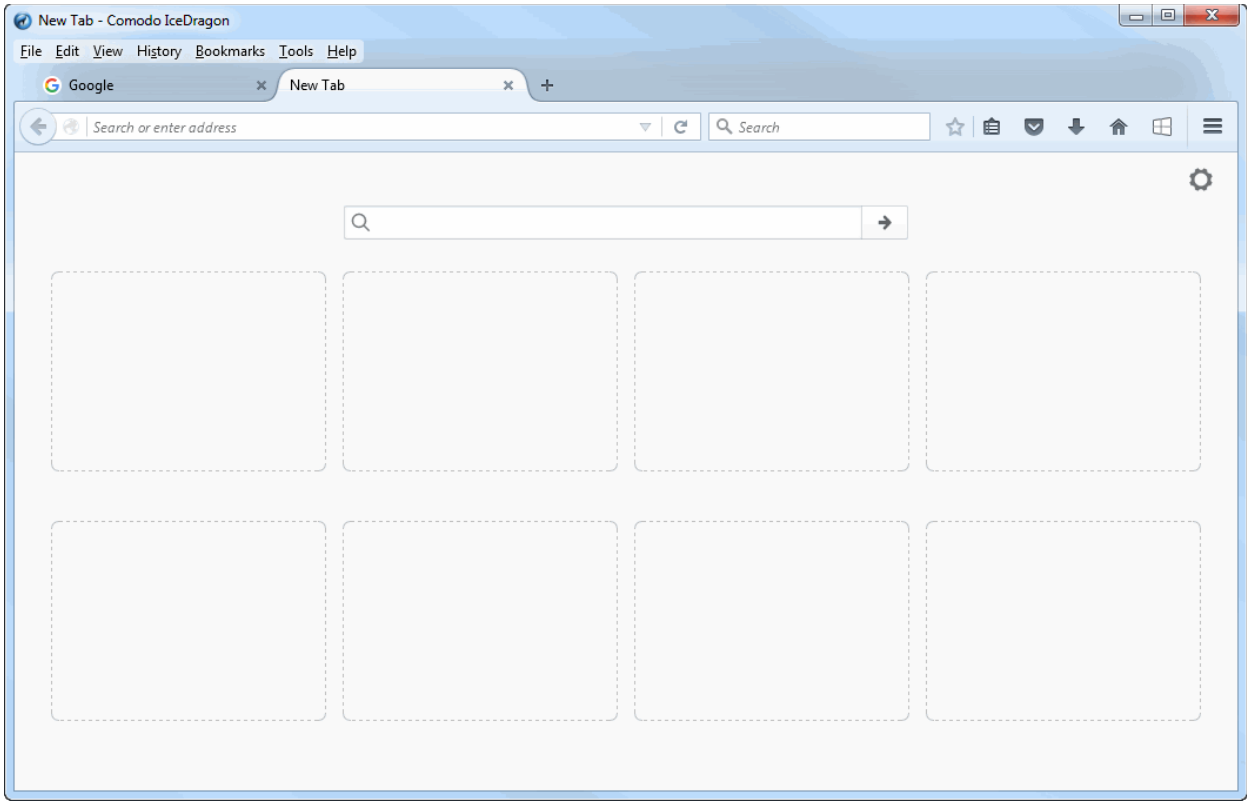
When you open a blank new tab in IceDragon, you will see thumbnails of your most visited sites so you can quickly re-open them.

To view recent and most visited websites:

- Click the + icon on the right of your open tabs:

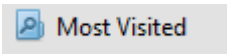


A tab will open containing thumbnails of your twelve most visited sites.



To set the browser displays 'Most Visited'

- In the address, type *about:config* and click 'Enter'.
- The *about:config* "This might void your warranty!" warning page will appear. Click 'I'll be careful, I promise!
- Scroll down to browser.places.smartBookmarksVersion.
- Double-click on browser.places.smartBookmarksVersion and change the value to 0 (zero).
- At the top of the IceDragon window, click the File menu > Exit.



Comodo IceDragon remembers your preference and opens 'Most visited' section when you open a new tab page.

To disable the browser displays 'Most Visited'

- Type *about:config* into the address bar.
- The about:config *"This might void your warranty!"* warning page will appear. Click 'I'll be careful, I promise!'.
- Type "tab" in the 'Search' field at the top of the list.
- Scroll down to: *browser.newtab.url.*
- Double-click on browser.newtab.url to change the value to *"about:blank".*
- At the top of the IceDragon window, click the File menu > Exit.

To view recently closed tab

- You can access the 'Recently Closed Tabs' list under the 'History' menu.
- To open all recently closed tabs in a new tabbed window select 'Restore all Tabs'.

Further reading related to the topic of this page:

- **Using Tabs**
- **Customizing Your 'New Tab' Page**

4.8. Viewing Browsing History

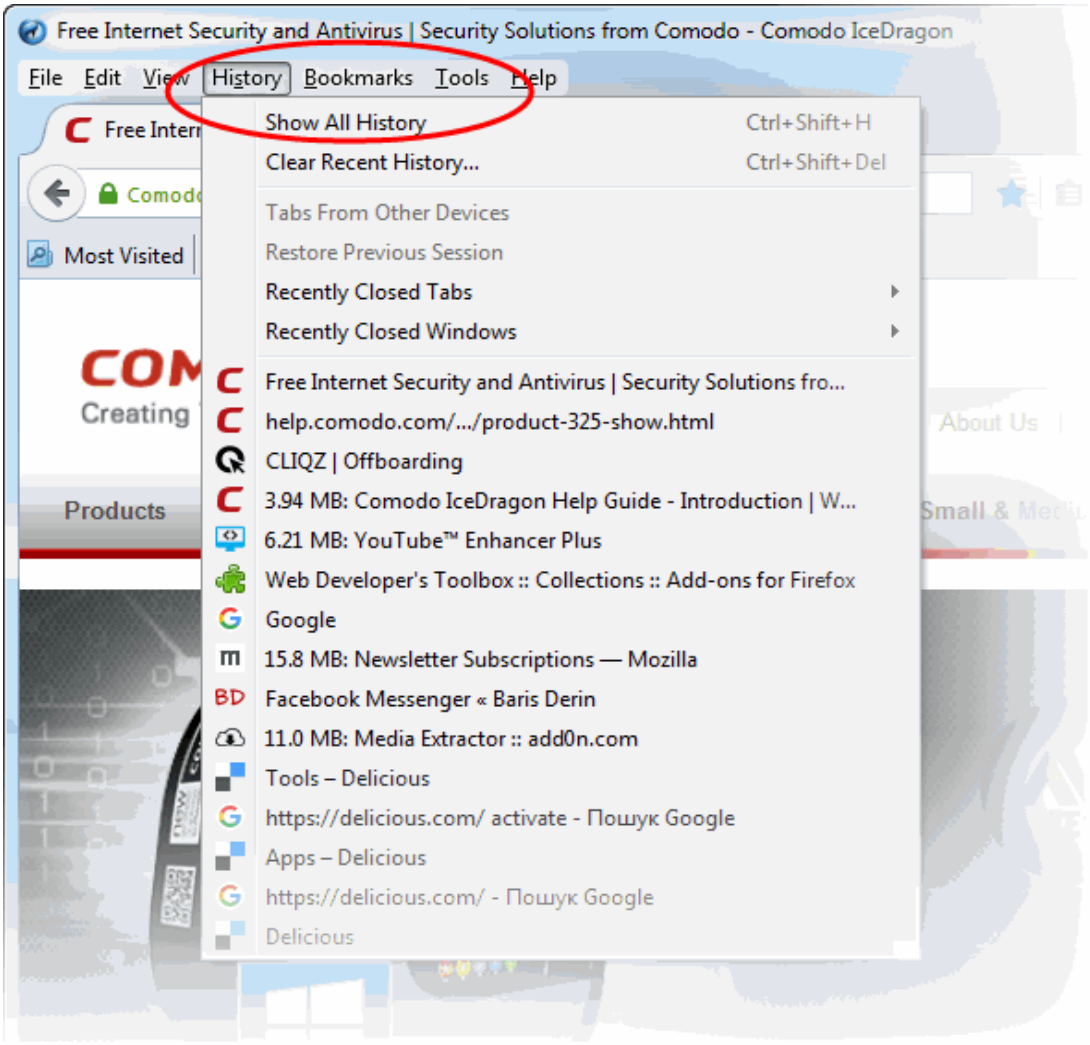
Comodo IceDragon will store a log of web pages that you have visited for the past 10 weeks. From time to time you may find it useful to look back through your history in order to revisit a particular site. Please note that Comodo IceDragon stores the history only when it is used in standard mode and not in Private Browsing mode. Also, it does not store the browsing history when browsing through secure websites. Comodo IceDragon also makes it easy for you to manually delete your browsing history and thus further safeguard your privacy. Refer to **Deleting your Browsing History** for more details.

This section explains you on how to view your Browsing History.

- **Viewing a quick list of past fifteen pages**
- **Viewing full browsing history**

To view a quick list of your browsing history

- Click on the 'History' from the menu bar. A list of webpages that you have browsed in the recent past will be displayed.



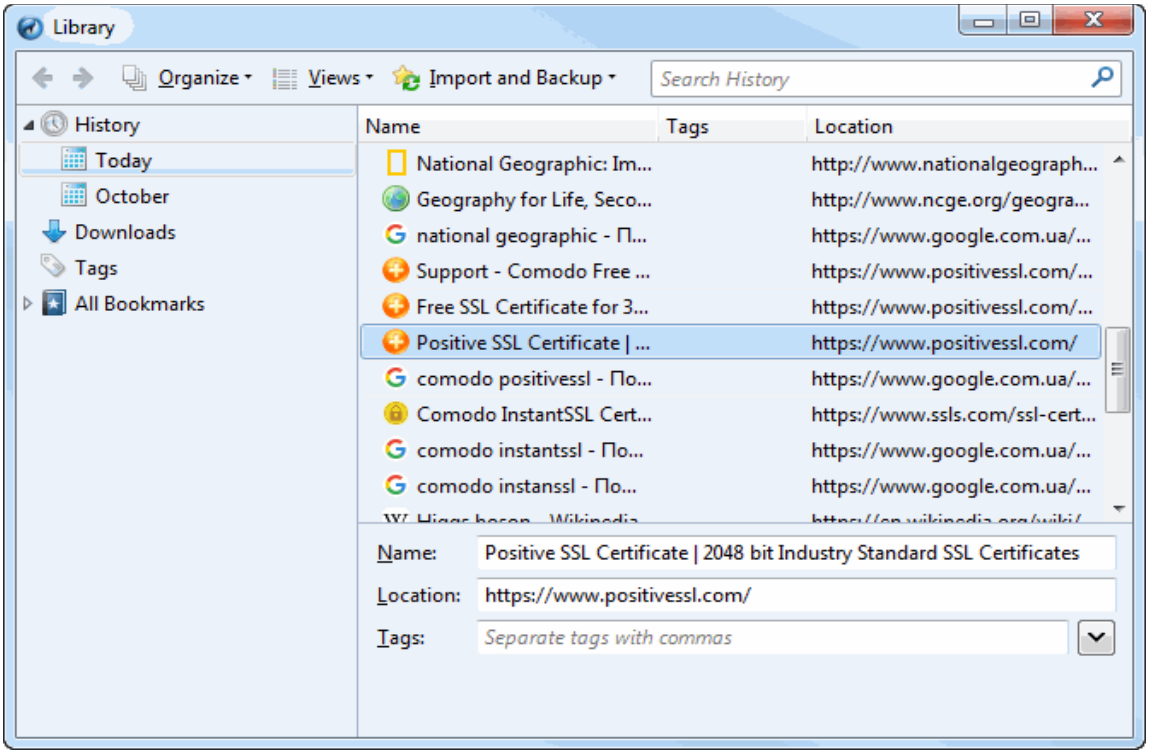
- Click on the page you want to re-visit.

You can also see the pages that you have visited in your present browsing session by clicking and holding down the forward and backward arrows adjacent to the address bar. Hover over a result and release the mouse key to switch to that page.

Viewing full browsing history

- Click the 'History' from the menu bar and select 'Show All History'. A library window will be displayed.
- Select 'History' from the left hand side navigation pane.
- Alternatively, you can open the Library window by clicking 'Bookmarks' > 'Show All Bookmarks' and then select 'History' from the LHS pane.

Double click on the time period for which you want to see the browsing history from yesterday, past one week and previous months.



The list of visited pages for that time period will be displayed.

- Double click on the webpage you want to re-visit.

Further reading related to the topic of this page:

- **Deleting Browsing History**
- **Using Tabs**

4.9. Setting Fonts, Languages and Encoding

Comodo IceDragon enables you to change the way the webpages are shown on your screen as per your likes. You can configure the fonts, colors and the language in which the content in a webpage should be displayed on your browser so that it would be easier for you to read or be more appealing.

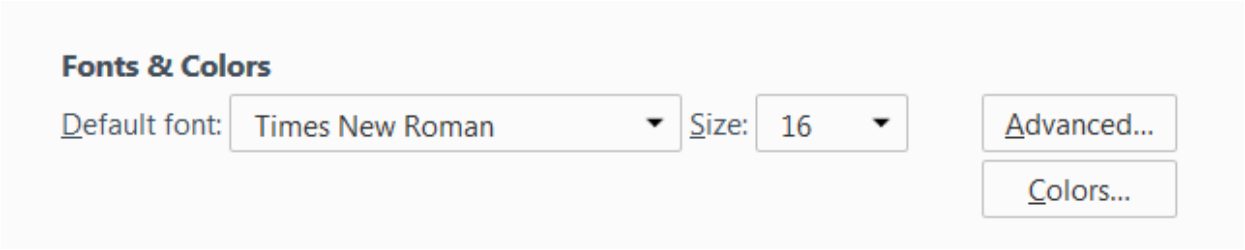
Click the links below for more detailed help on:

- **Configuring fonts and colors**
- **Configuring language**

To configure fonts and colors

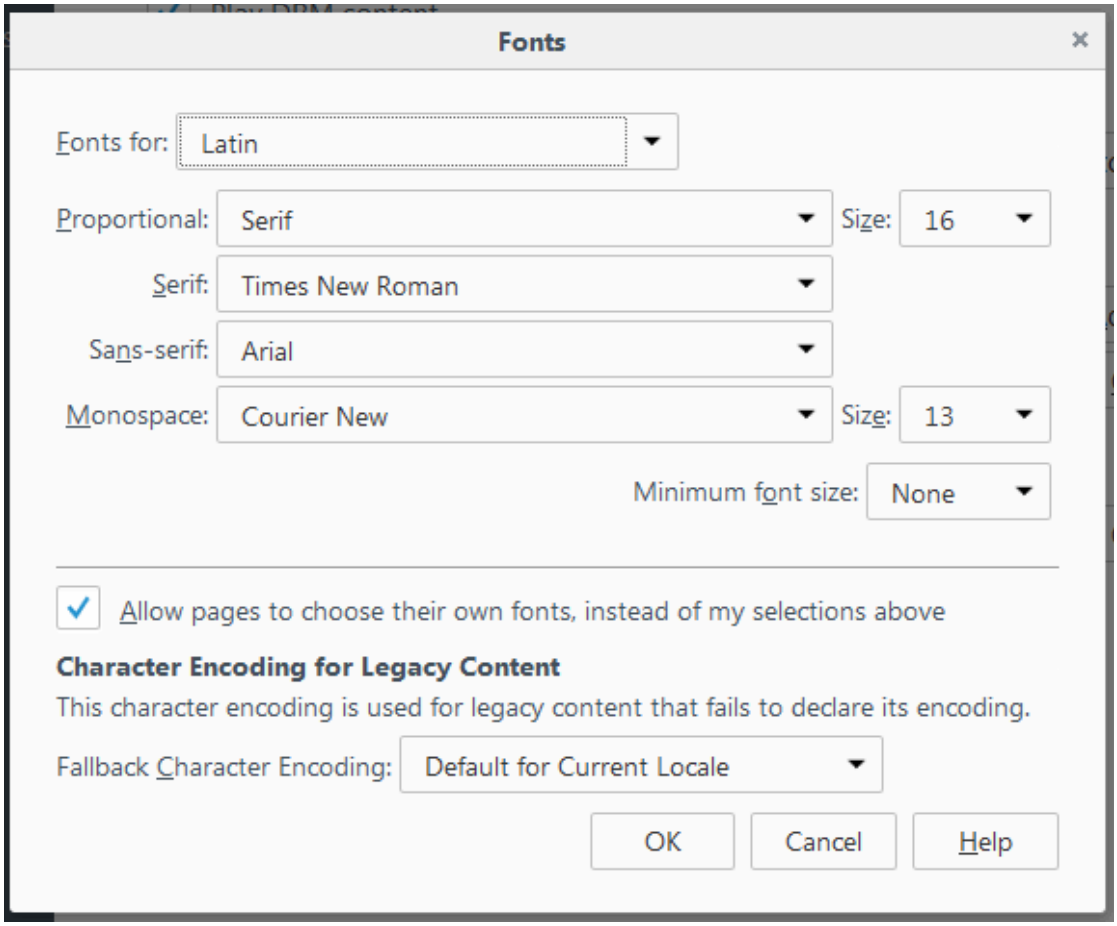
- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click the 'Options' > 'Content'

- Click the 'Default fonts' drop-down under 'Fonts and Colors' and select the font and font size that you want the browser to display.



- Click 'Advanced', next to the font options to open a new box with detailed choices for configuring fonts.

The Font' dialog will appear.

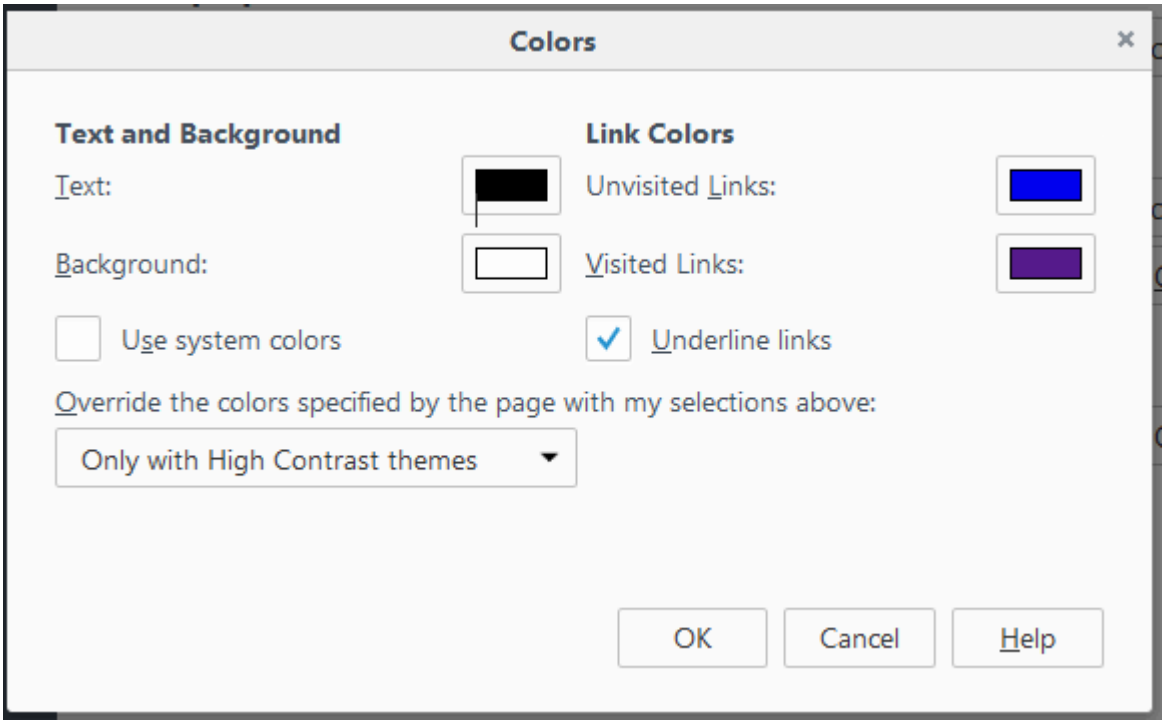


The fonts for various components of the text as per the chosen default font and the character encoding language indicated at the top field are displayed. If you want, you can change them, by selecting the desired character encoding language and respective fonts from the respective drop-down menus.

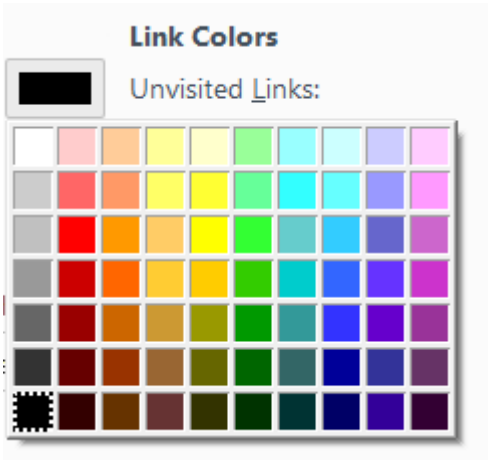
Deselect the check box 'Allow pages to choose their own fonts, instead of my selections above', to disable the browser from using the fonts and colors as set by the websites and to display the pages with your font/color choices.

You can also change the character encoding language from the default Character Encoding language from the 'Default Character Encoding' drop-down.

- Click 'Colors' beneath the Advanced button to open the colors interface box.



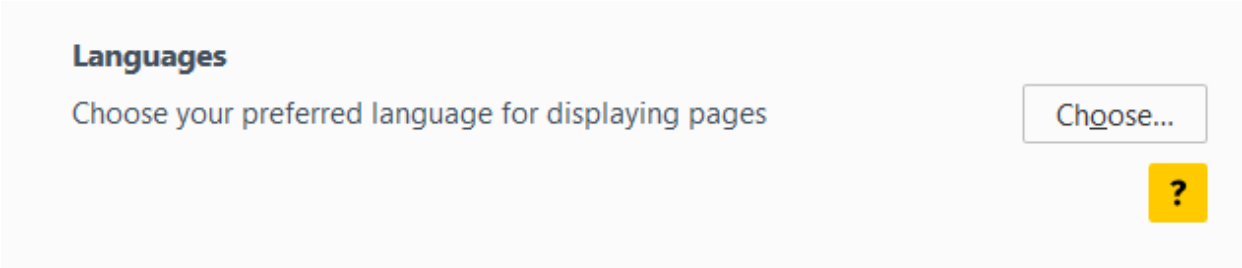
- Change the colors in which the text, background and links are displayed by clicking on the color patch and selecting the desired color from the palette.



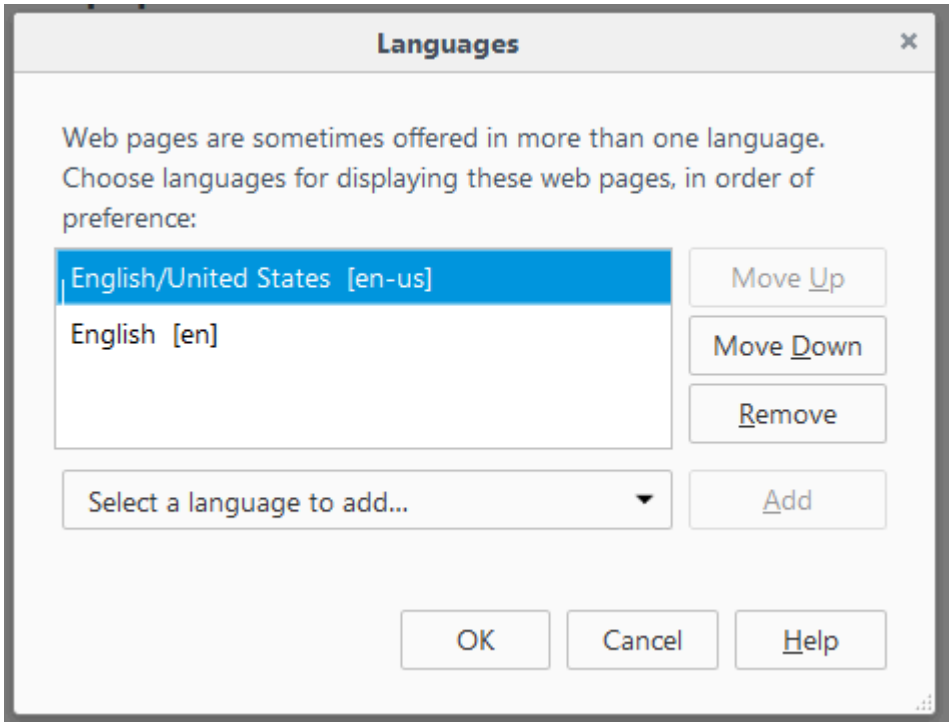
- Deselect the check box 'Allow pages to choose their own colors, instead of my selections above' and click 'OK'.

To configure the language

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > click 'Choose' button under the 'Content' section. The 'Language' dialog will be displayed



- The languages that are currently added to the browser are listed in the order of their usage preference.



- To add a new language to the browser, click the drop-down button beside 'Select a language to add...', select your desired language from the drop-down, click 'Add'.
- To change the order of preference of languages to be used by the browser, select the language and use 'Move Up' and 'Move Down' keys.
- To remove a language from the browser, select the language and click 'Remove'.
- Click 'OK' for your changes to take effect.

4.10. Configuring IceDragon Updates

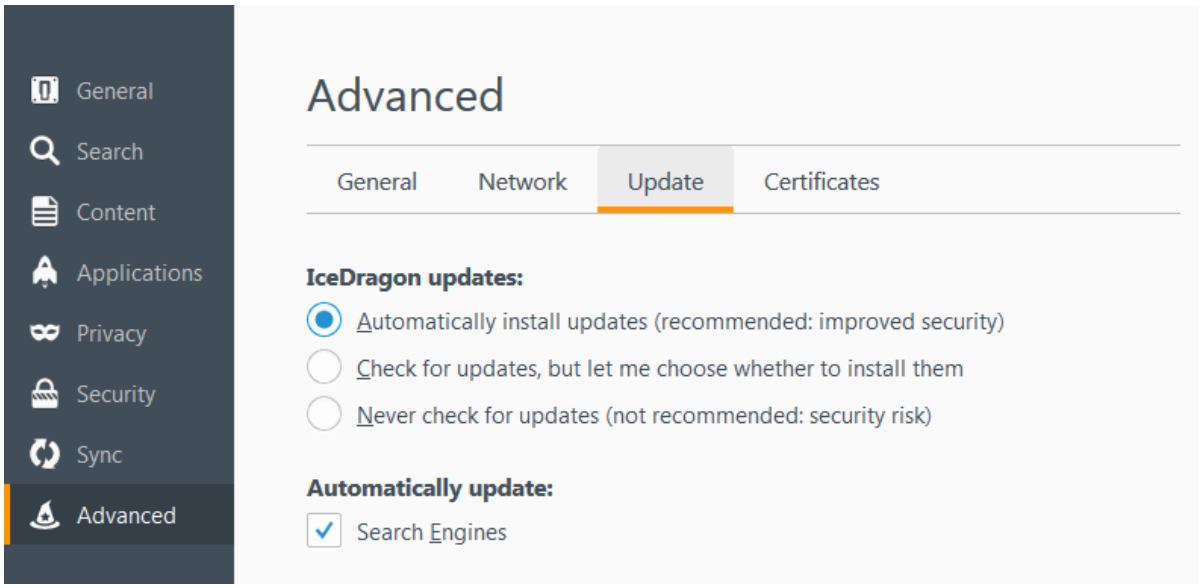
To make sure that you are protected by the latest security one hand touch updates is a small amounts of new code, Comodo IceDragon automatically/manually updates whenever it detects that a new version of the browser is available.

- By default, the updates will be downloaded in the background and installed automatically when one is available or when you restart IceDragon.
- The notification to restart IceDragon and install the update will be displayed if the updates has been waiting to be installed for more than 24 hours.

To configure updates automatically

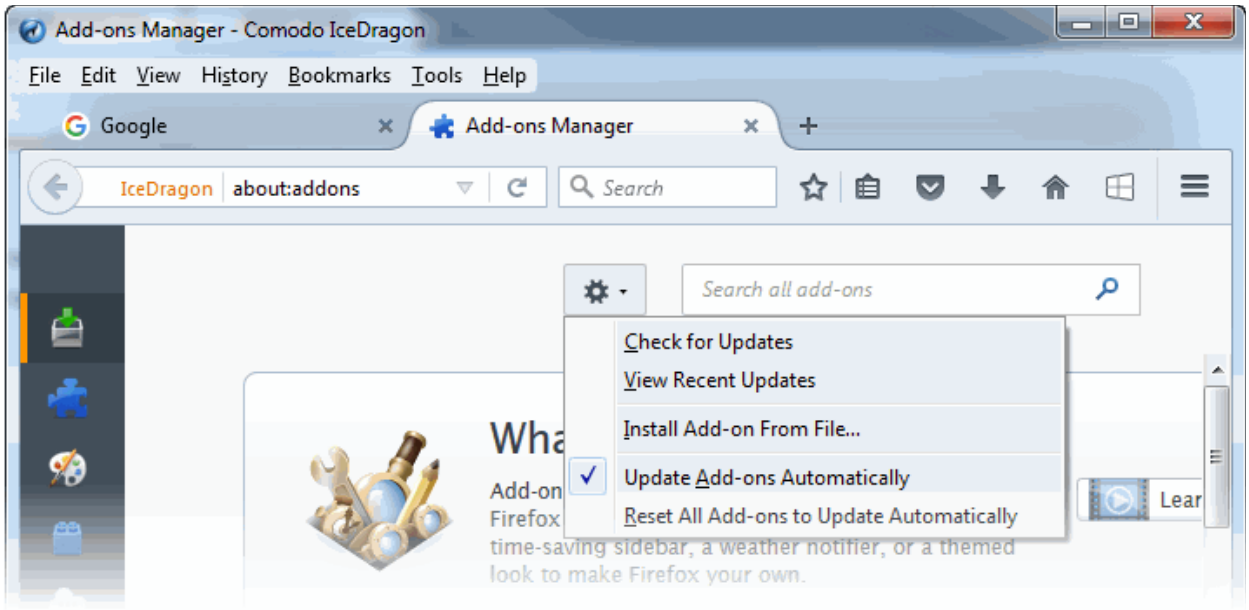
- Click the Comodo IceDragon menu located at the top right corner of the browser

- Click 'Options' > 'Advanced' panel.
- Under the 'Update' tab select check the 'Search Engines' box to receive automatic updates to your search engines.



If automatic updates are disabled then IceDragon will not silently install updates. Instead, you will be alerted when updates are available via the notification bar.

- Alternatively, you can check for updates or review whether the IceDragon updates are available by clicking the Add-ons.
- Press the icon > select 'Check for Updates' or 'View Recent Updates'.



To configure updates manually

- Click the Comodo IceDragon menu at the top left corner of the browser.
- Click 'Options' from the 'Options' menu.
- Click the 'Advanced' panel.
- Under the 'Update' tab select,
  - Check the '**Automatically install updates (recommended: improved security)**' box to automatically

downloads and installs updates.

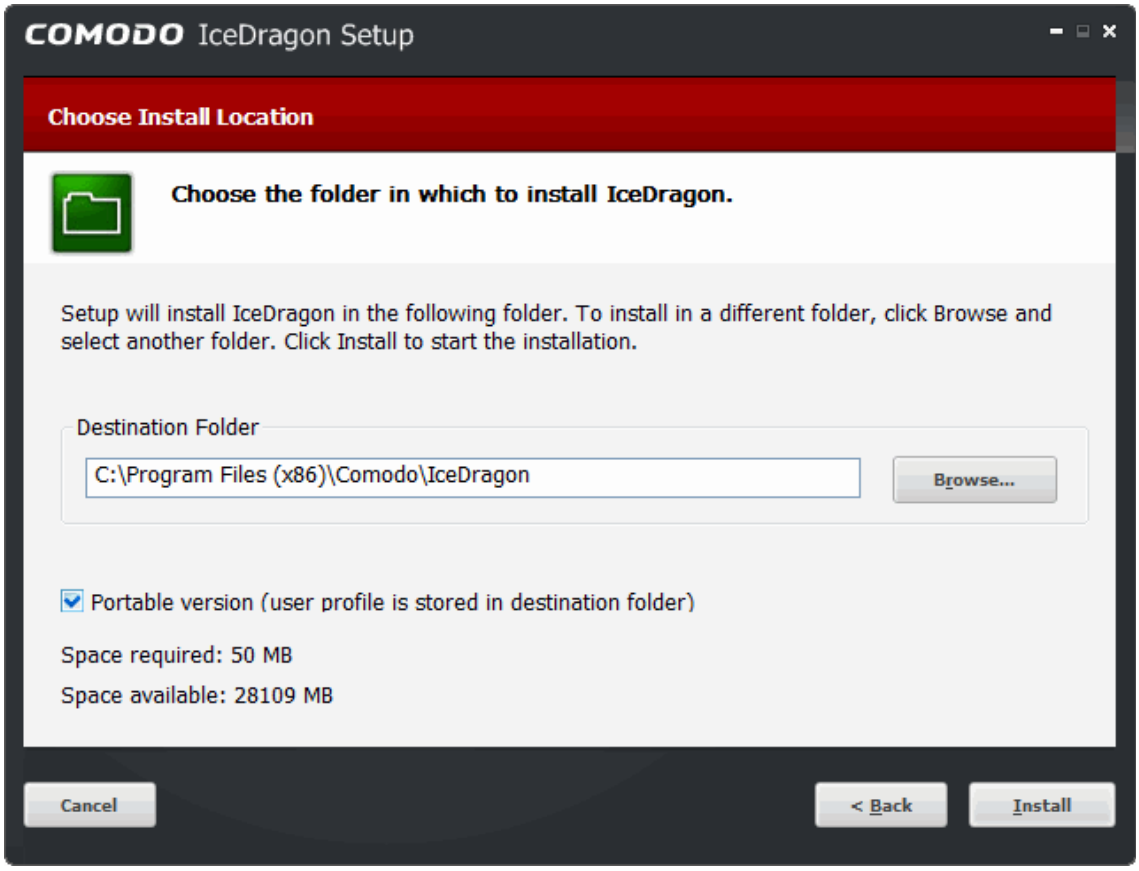
- **Check for updates, but let me choose whether to install them:** Allows you to choose a moment when to download and install updates. You can download them at a later time, if you do not choose to do that.
- **Never check for updates (not recommended: security risk)**: IceDragon won't check for updates. *Note:* Selecting this setting will disable you from receiving critical security updates that may keep you safe online unless you frequently do a manual check for updates.

4.11. Portable Version

Comodo IceDragon can also be installed in portable mode. As the name suggests, portable mode allows users to quickly launch and use their pre-configured Comodo IceDragon on any computer without the need to install, import bookmarks or modify settings.

In portable mode, the user profile (configuration data) is written to the IceDragon installation folder instead of the Windows 'user' folder on the local machine. Therefore, by simply copying the installation folder to another drive (such as a USB fob or a drive on another computer), you will be able to launch and use your personalized Comodo IceDragon.

Portable mode must be selected during the installation process:



There are a few differences to setup if portable mode is selected:

- The 'Import Settings' and 'Secure DNS' dialog boxes will not be shown during the installation process
- The Installer does not write anything to the Windows registry
- Uninstaller is not created
- User profile is stored in the "User Data" folder inside the main Comodo IceDragon installation folder.

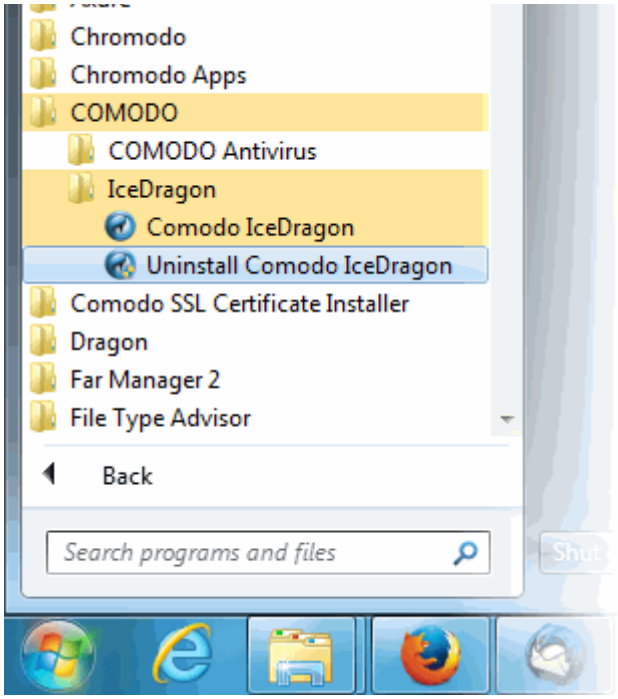
4.12. Uninstalling IceDragon

To uninstall Comodo IceDragon

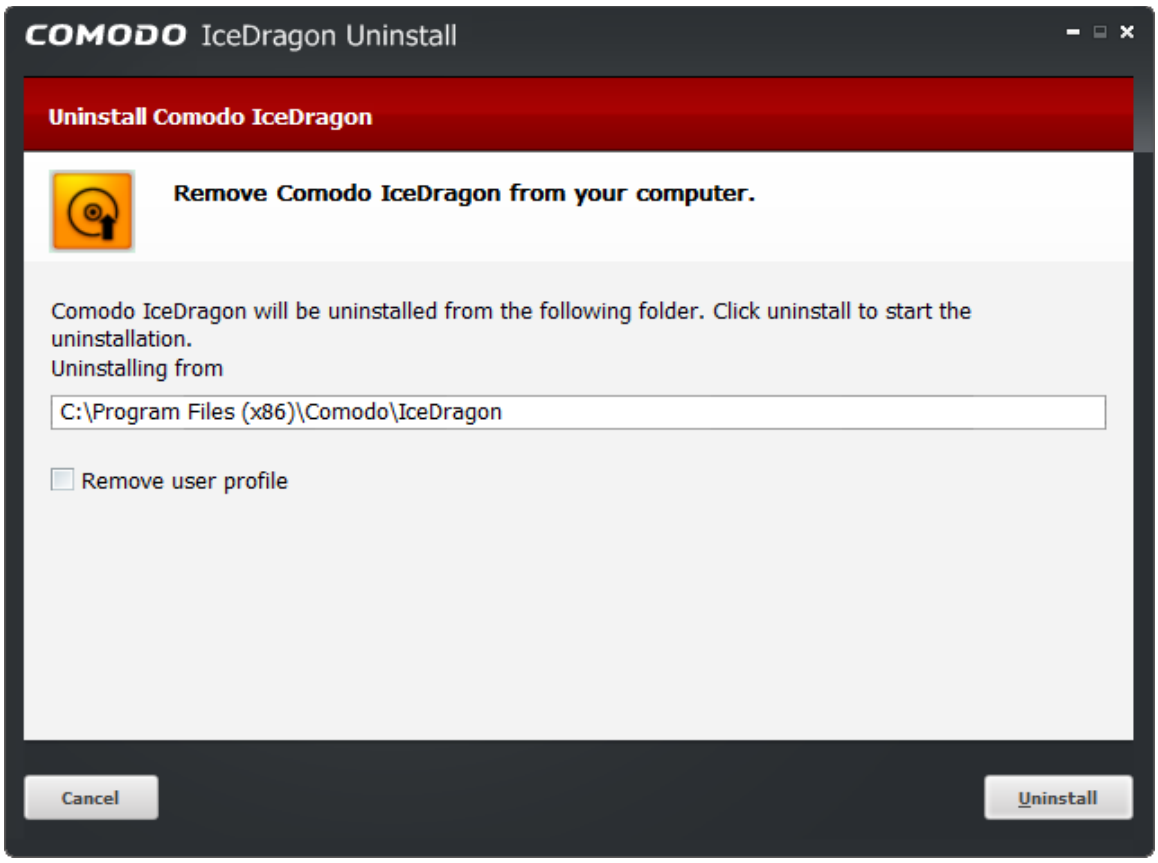
- Click Start > Settings > Control Panel
- In the Control Panel, double-click Add/Remove Programs
- In the list of currently installed programs, click Comodo IceDragon
- Click the 'Uninstall/Change' button.

Or

- Click Start > **All Programs > Comodo > IceDragon > Uninstall Comodo IceDragon.**



The Uninstall dialog will be displayed.

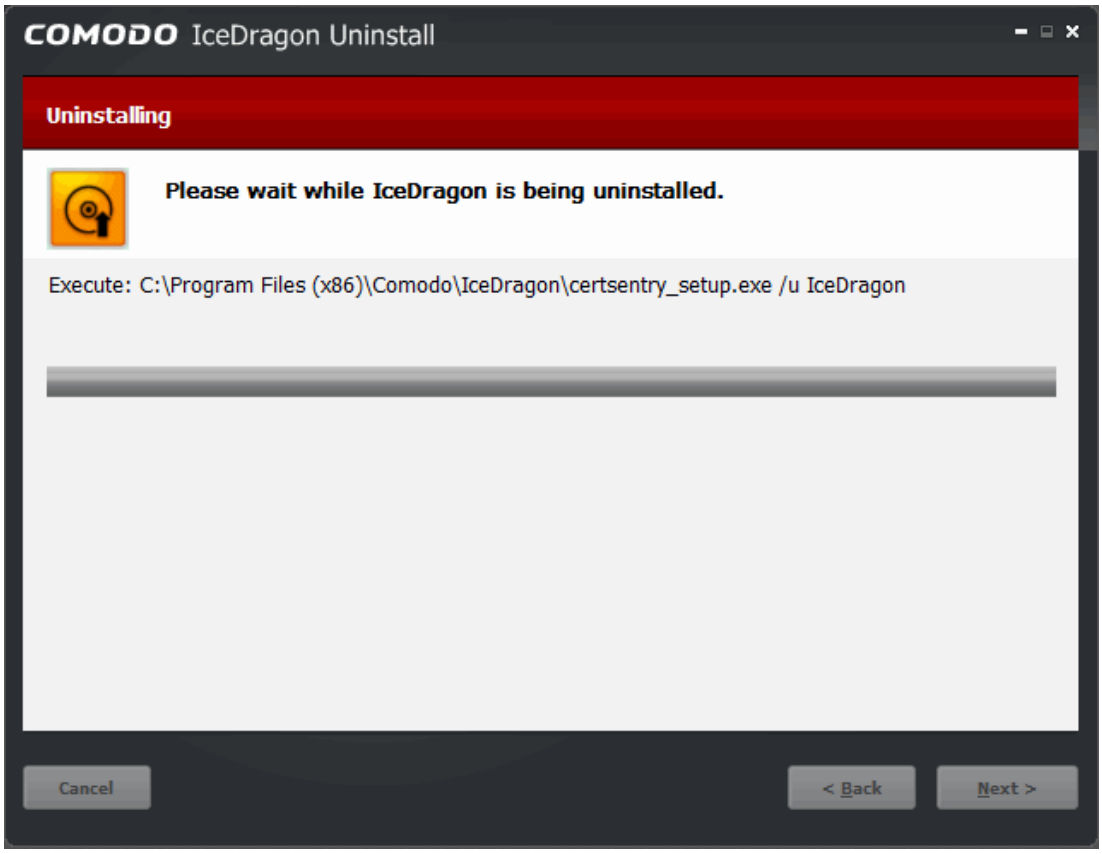


- By default, you will be provided a choice to save your IceDragon profile data in your computer. If you plan to install IceDragon again at a later time, IceDragon will use this profile data to configure your new installation. If you do not wish to retain or transfer your browser settings, select the checkbox 'Remove user profile'.

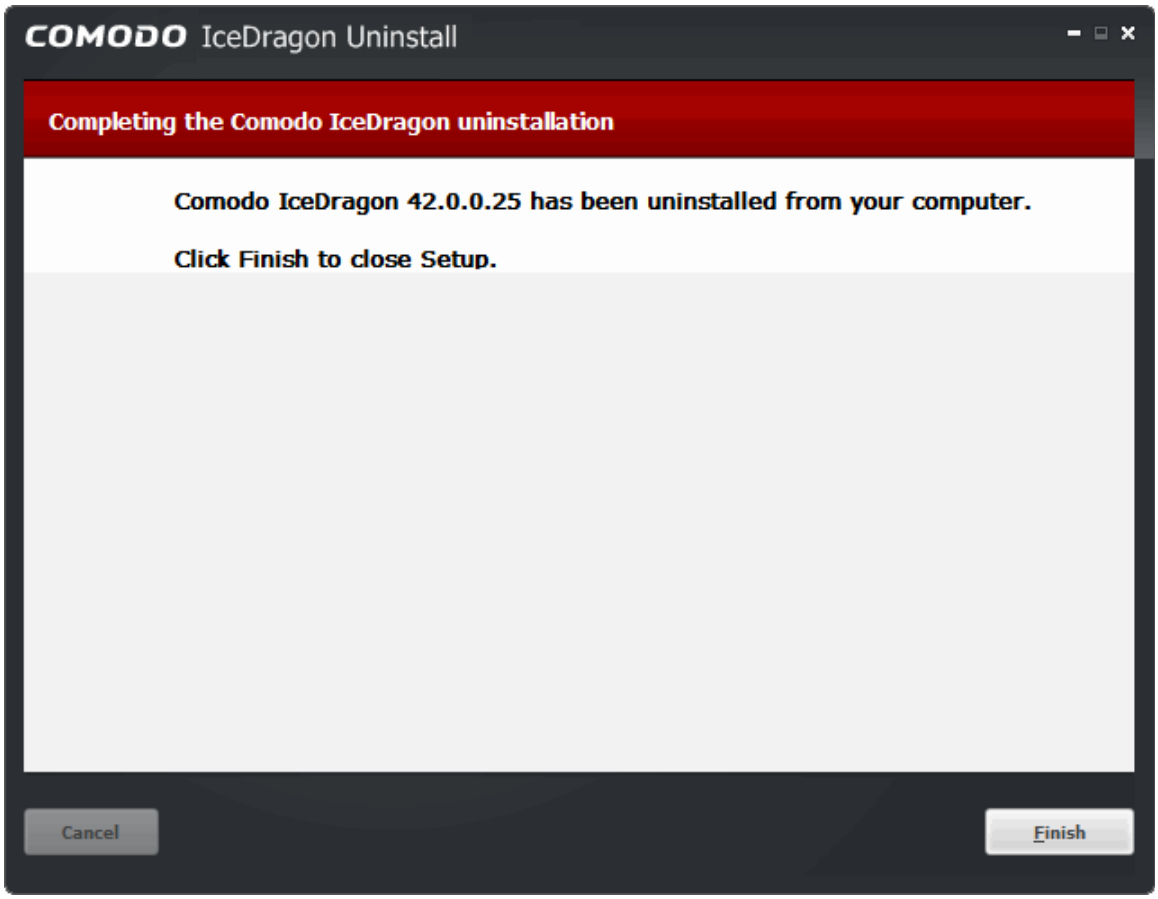
  The screen displays the selection of the folder in your hard drive for installing Comodo IceDragon. The default installation location are 'C:\ProgramFiles\Comodo\IceDragon (32 bit systems)' and 'C:\Program Files (x86)\Comodo\IceDragon (64 bit systems)'.

- Click the 'Uninstall' button.

The uninstallation progress will be displayed.



...and on completion, the 'Finish' dialog will be displayed.



- Click 'Finish' to complete the uninstallation process.

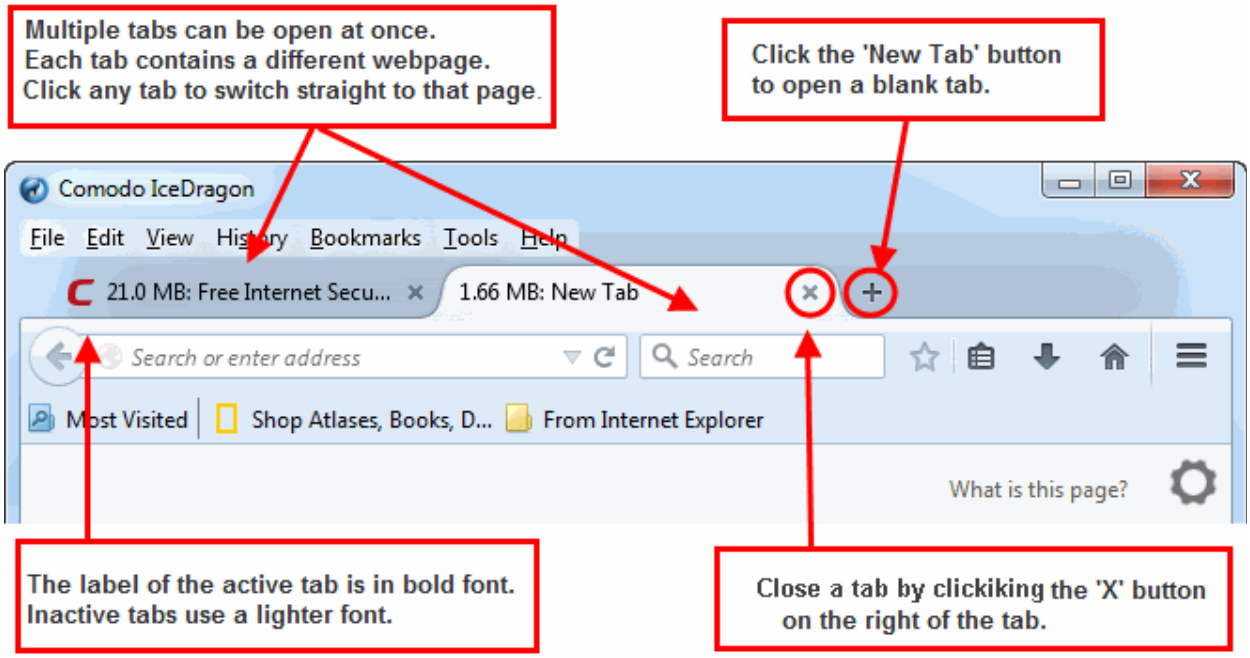
5. Tabbed Browsing

This section explains how to use tabs to view websites in Comodo IceDragon. Click the following links to find out more:

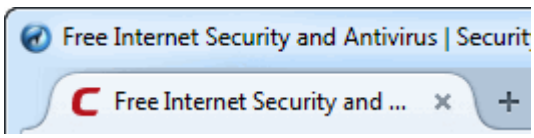
- **Using tabs**
- **Customizing Your New Tab Page**
- **Tab Settings**

5.1. Using Tabs

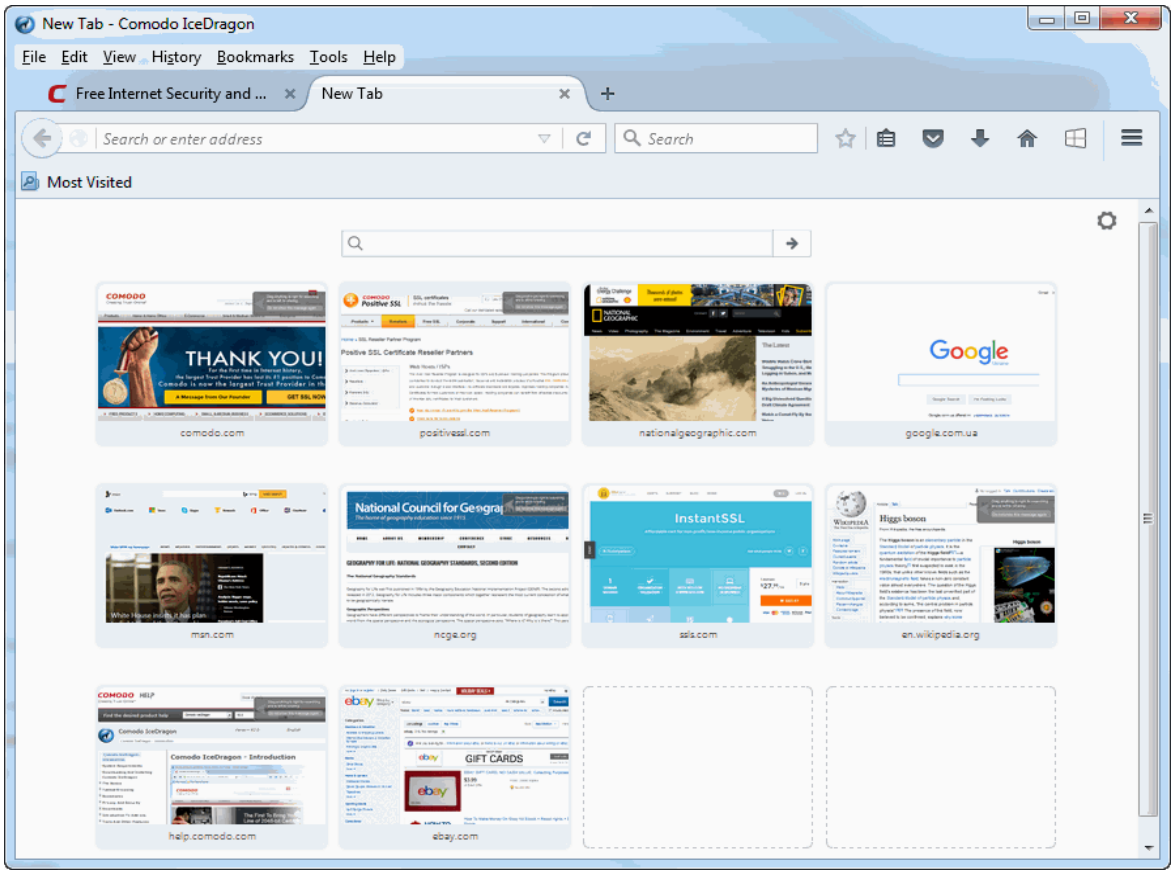
Each time you open a web-page in Comodo IceDragon, it will be displayed what is known as a 'tab'. If you have multiple web-pages open then each will open in its own tab.



- To open a new tab, click the new t+ icon, which is next to the last tab:



- Rearrange tabs by left clicking on a tab, holding down the mouse button then dragging the tab to it's new position
- When you open a new, 'blank' tab, it will display a list of your fifteen most visited websites for your easy access:

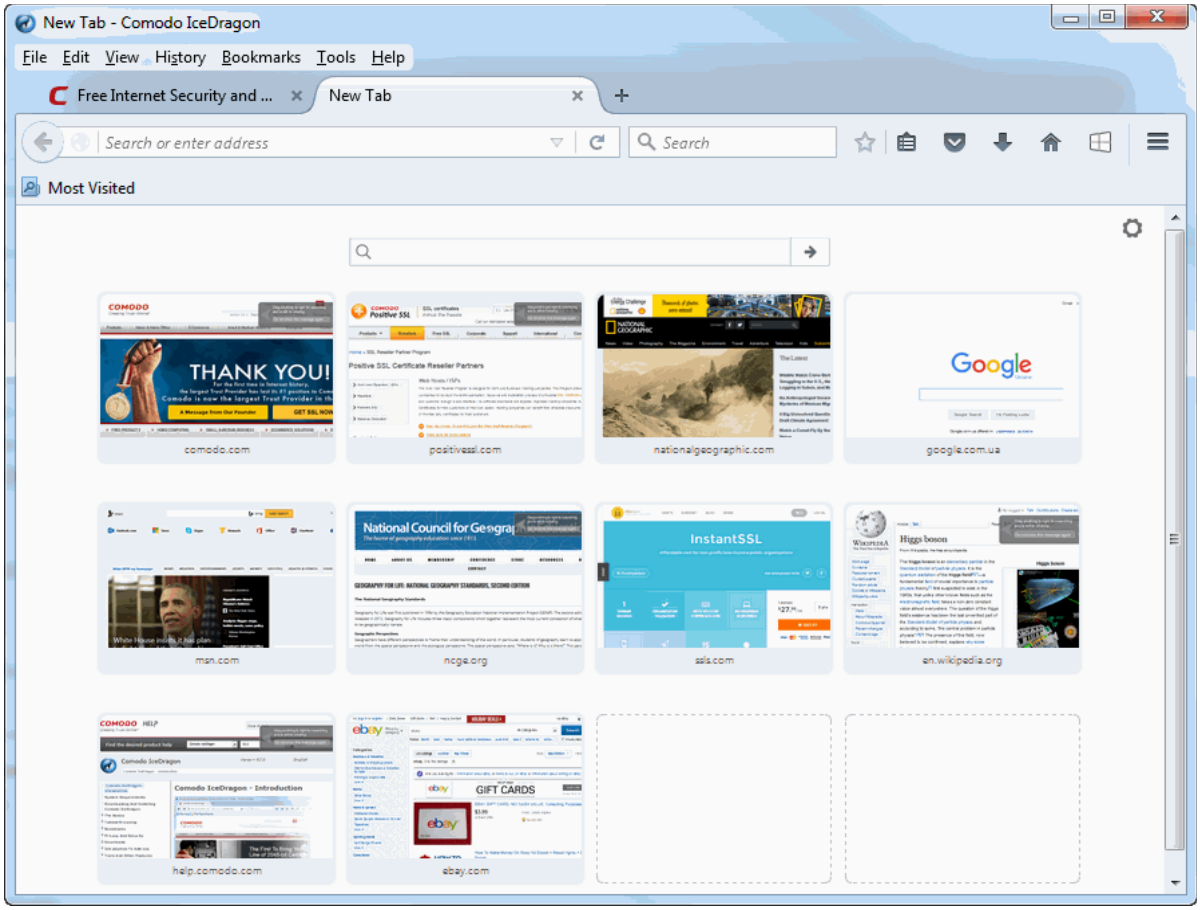


Next:

- **Customizing Your 'New Tab' Page**
- **Tab Settings**

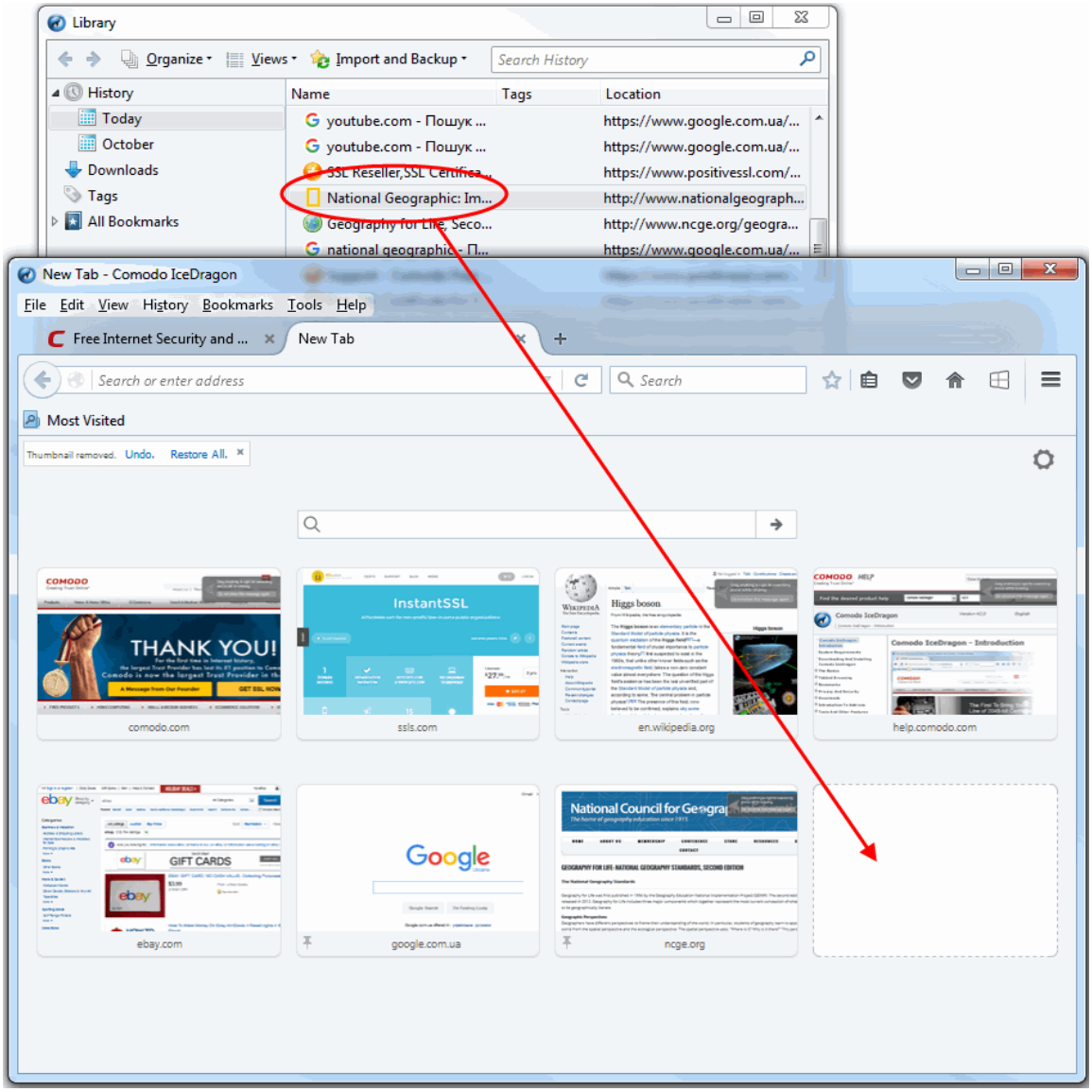
5.2. Customizing Your 'New Tab' Page

By default, when you open a new tab, it will display a list of your nine most *visited* websites. You can, however, make the 'New Tab' page display whatever websites you want (including your favorite websites). Each website will be displayed as a thumbnail. The thumbnails can be deleted and rearranged as you see fit.



To add a site to the new tab page:

- Open a new tab
- Click 'Bookmarks' > 'Show All Bookmarks' to open the 'Library' window.
- Alternatively, click the Bookmarks button the Navigation Toolbar at the top right side of the interface
- Select a bookmark and drag it to the new tab page.



To pin a site

Hover the mouse cursor on the thumbnail in the top-left corner that you want to lock it in that position on the page.

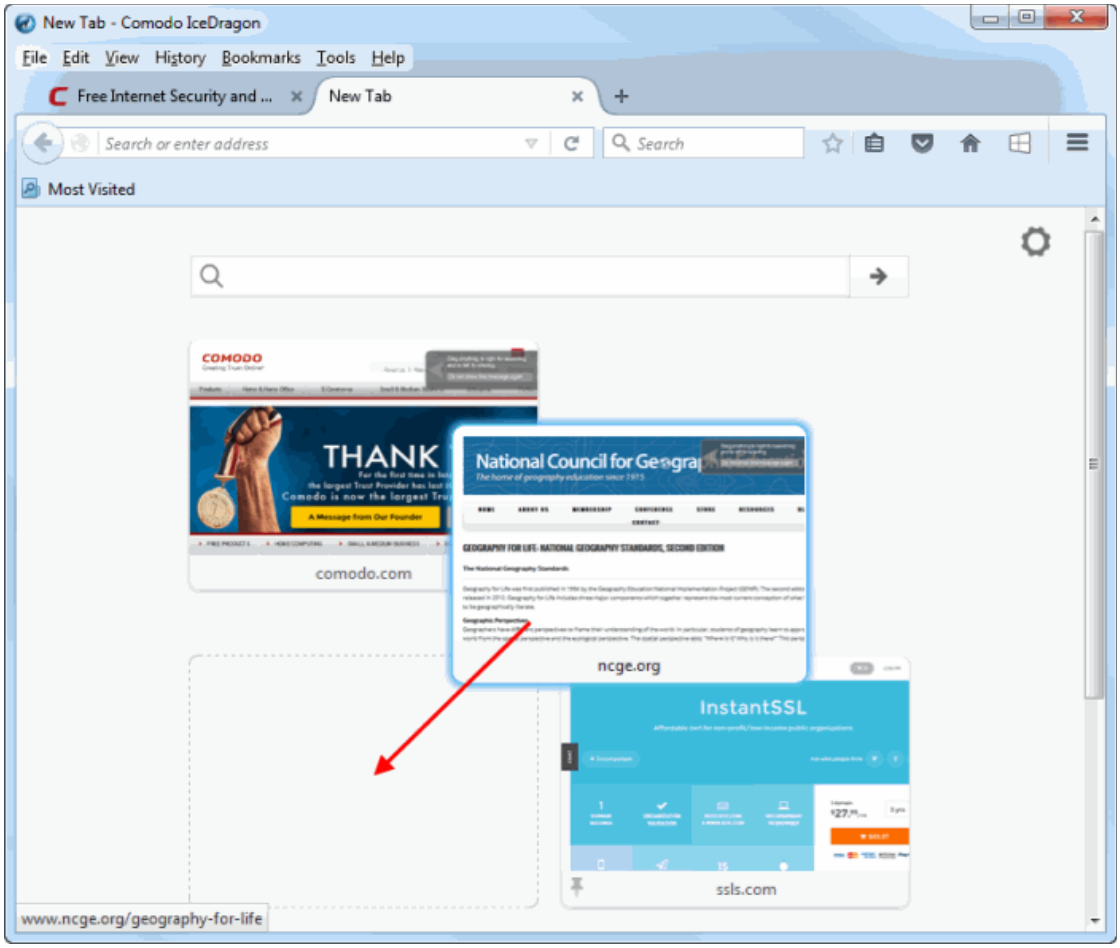
To remove a site

- Hover the mouse cursor on the thumbnail that you want to remove and click on the '**X**' that appears on the top right corner.

- The thumbnail is now deleted from the page.

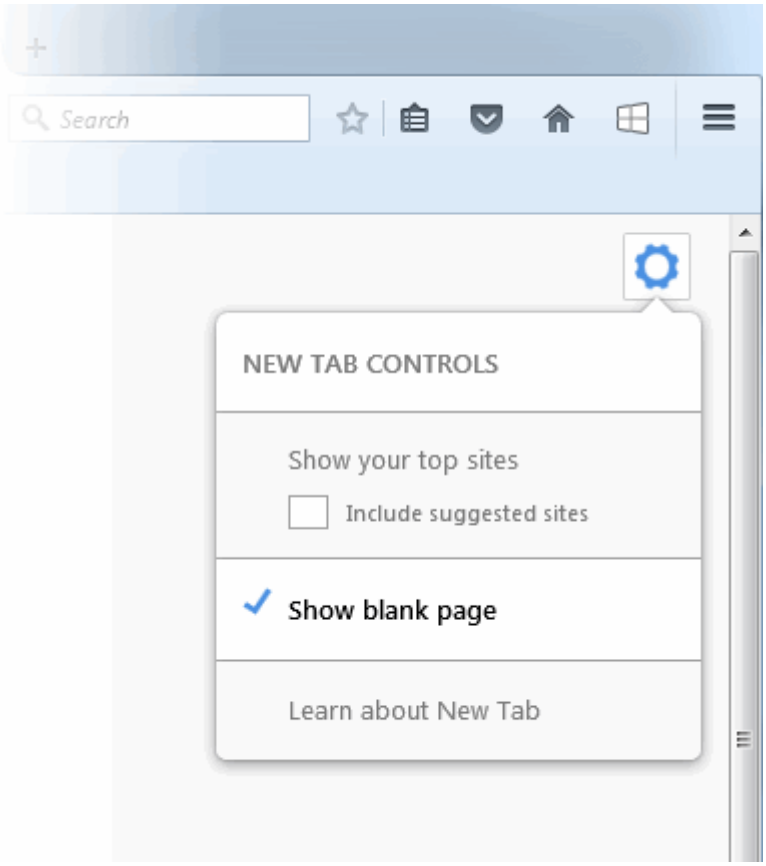
To rearrange thumbnails

- Simply click and drag the thumbnail into the position you prefer.



To hide the thumbnails

Click the gear icon in the upper-right and checkmark 'Show blank page' from the menu.



To turn this feature off completely

- *"This might void your warranty!"* warning page will be displayed. Click 'I'll be careful, I promise!', to continue the *about:config* page.
- In the address bar, type *about:config* and press Enter.
- Type *browser.newtab.url* in the Search box:
- Double-click the browser.newtab.url preference and change the URL from about:newtab to *about:blank*.
- Click 'OK'.

To reset the page to show blank thumbnails

You have to clear the browsing history first. To do this, click the 'History' > 'Clear Recent History '> 'Clear Now'.

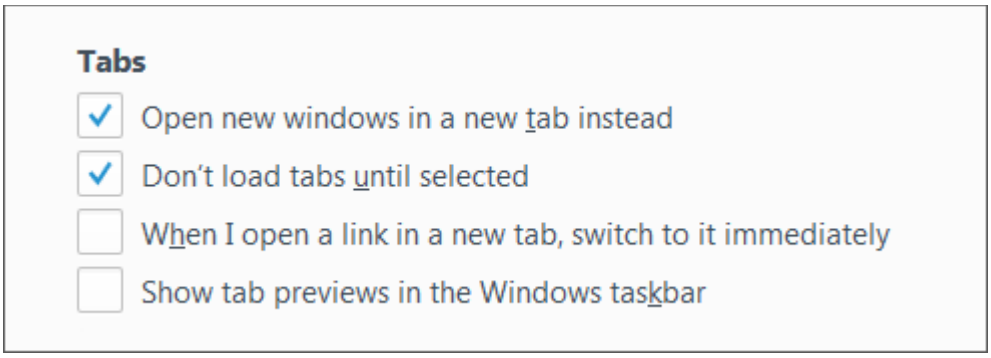
5.3. Tab Settings

This section explains how to:

- **Configure tab settings**
- **Restore a tab/window**
- **Re-open tabs from your last session when you next start IceDragon**
- **Use right-click options**

To configure tab settings

- Click the menu located at the top right corner of the browser
- Click 'Options' > 'General' button:



- **Open new windows in a new tab instead** - This option allows you to determine whether links from other applications or from web pages are opened in a new window or a new tab in the most recent window.
- **Don't load tabs until selected** - Check this option to load the active tab when it starts or restores your previous session
- **When I open a link in a new tab, switch to it immediately** - Check this option to load and display the page in a new foreground tab.
- **Show tab previews in the Windows taskbar** - Check this option to show a separate preview for each tab.

To restore a tab or a window from the default home page

- Click the menu located at the top right corner of the browser
- Click 'Options' > 'General':
- In the Startup box, click 'Restore to Default'

You can recover a tab or windows that you have recently closed from by clicking the 'Restore Previous Session' icon on the default Comodo homepage.

All tabs and windows that were closed will be re-opened.

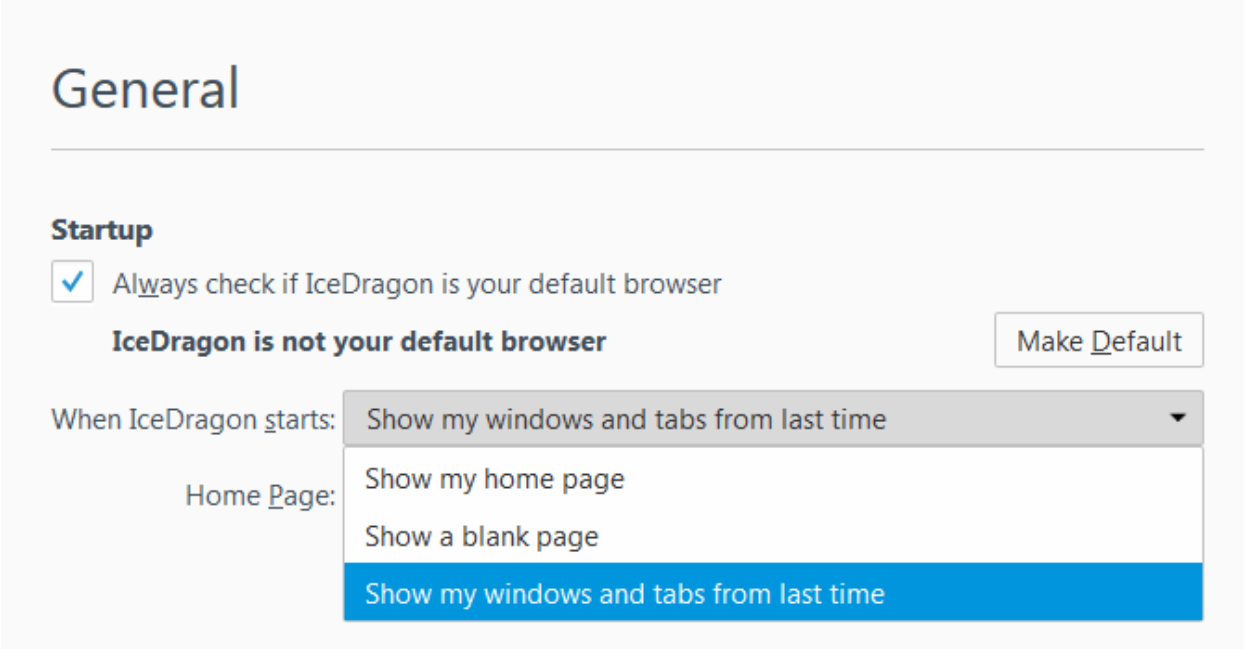
To restore the previous session from the history menu

- Click the menu located at the top right corner of the browser
- Select 'History> 'Restore Previous Session'

To re-open the tabs from your last session when you next start IceDragon

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'General' tab.

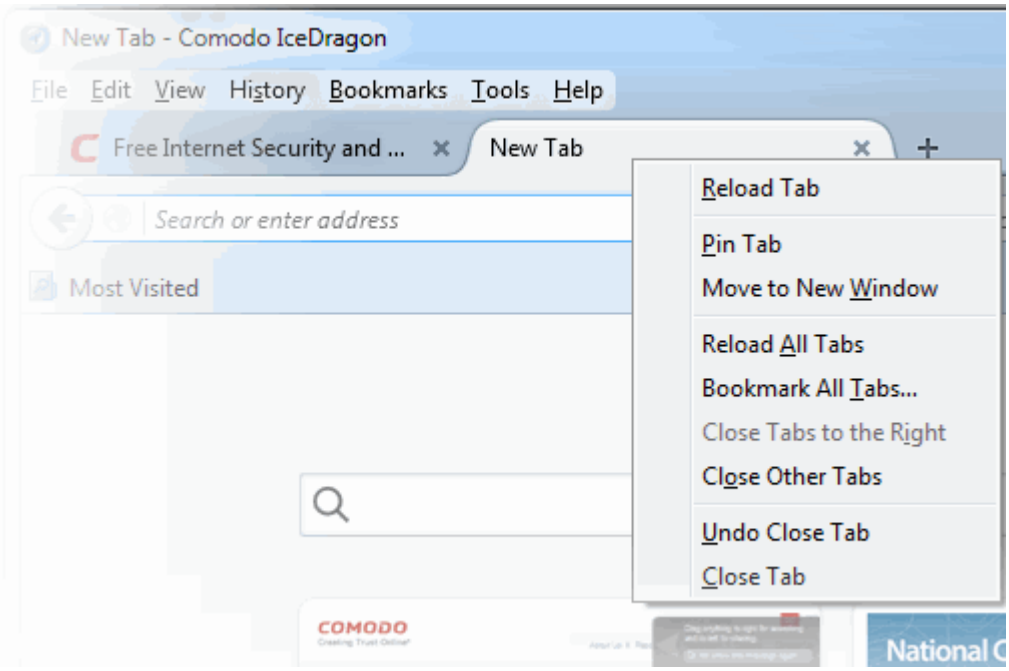
- Under 'Startup' select 'Show my windows and tab from last time' from the 'When IceDragon starts' drop-down menu



- The new tab page will be opened.

Right-click options

Right-clicking on any tab opens a context-sensitive menu:



- **Reload Tab** – Refreshes the page.
- **Pin tab** – Pins the tab to left of the browser window.
- **Move to New Window** - Opens a tab in a new window..
- **Reopen All Tabs** – Reopens last closed tab in the same tab location of the browser window.

- **Bookmark All Tabs** – All tabs that are currently open in the browser will be bookmarked.
- **Close Tabs to the Right** - Closes tabs to the right.
- **Close Other Tabs** – Closes all other tabs.
- **Undo Close Tabs** - Undoes closed tabs through a toolbar button or the right-click context menu.
- **Close tab** - Closes the tab.

Further reading related to the topic of this page:

- **Using Tabs**
- **Customizing Your 'New Tab' Page**

6. Bookmarks

Bookmarks are an easy way to store the links of your favorite web-pages so you can visit them quickly later. This section shows you how to create, edit and manage bookmarks. Click the following links to find out more.

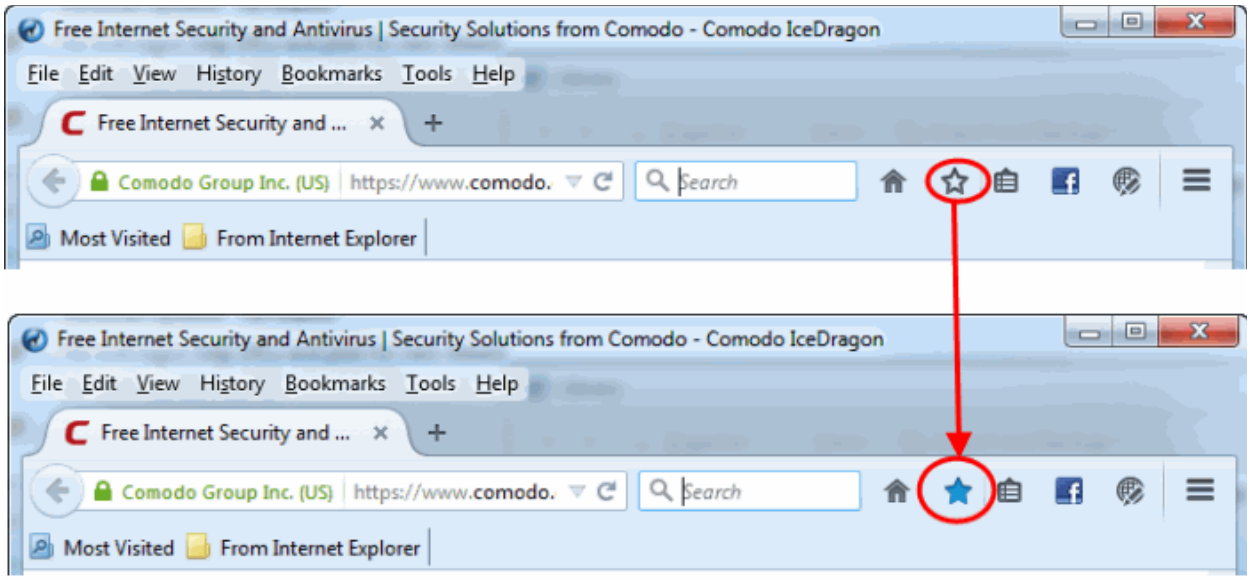
- **Creating Bookmarks**
- **Finding and Editing Bookmarks**
- **Managing Bookmarks**
- **Importing and Exporting Bookmarks**

6.1. Creating Bookmarks

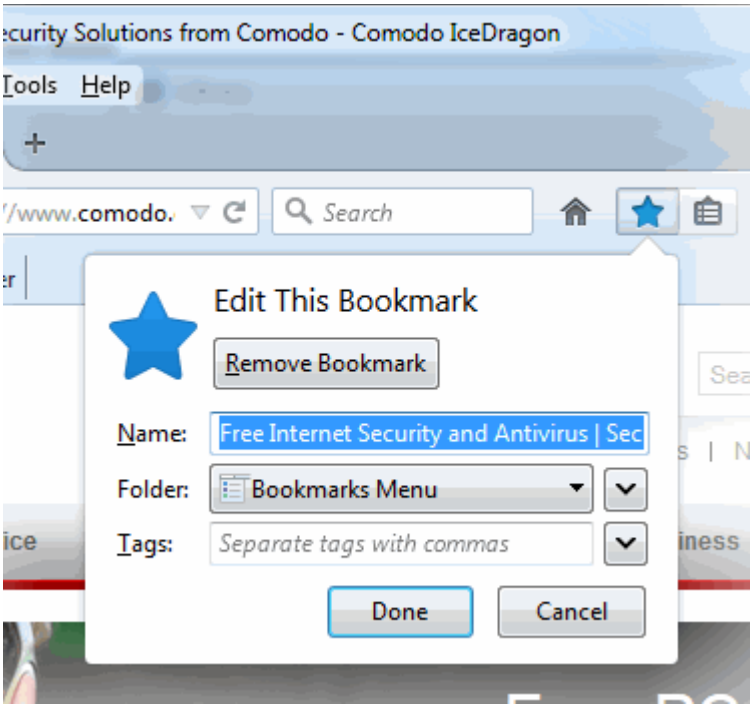
Comodo IceDragon allows you to create bookmarks to your favorite web pages in multiple ways.

Method 1

When on a webpage that you want to bookmark, simply click the star at the right of the address bar:

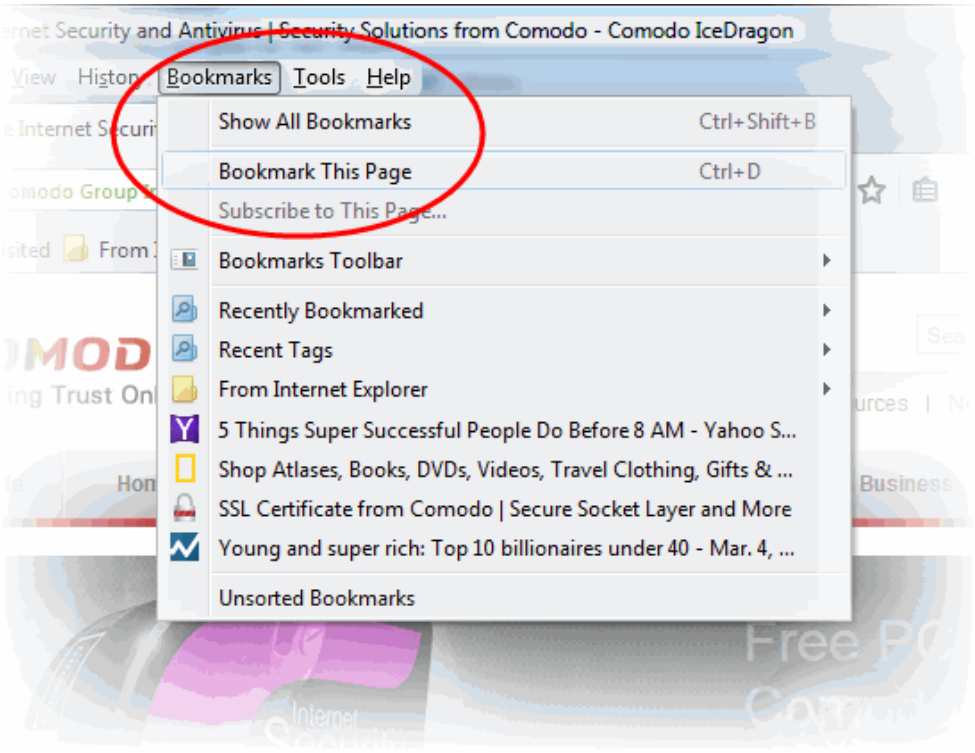


Once bookmarked, the star will change color to black. On all subsequent visits to bookmarked pages, you will see this black star. Clicking on the star opens an options menu which allows to modify bookmark options:



Method 2

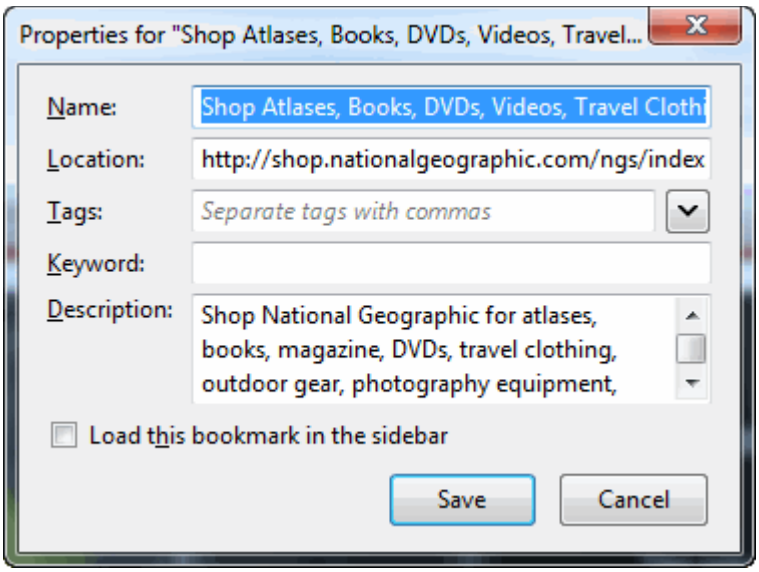
- Select 'Bookmark This Page' from the menu. By default, the bookmark will be created in the 'Unsorted Bookmarks' folder.
- Click the bookmarks button to the right side of the address bar.



By right-clicking on any bookmark then selecting 'Properties', you can modify bookmarks settings including:

- Name - The name displayed for the bookmark in menus.
- Tags - Set tags for the bookmark. Tags can be searched from the IceDragon address bar.

- Folder - Select what folder to store your bookmark in by picking one from the drop-down menu (the Bookmarks Toolbar, Bookmarks Menu, Unsorted Bookmarks). Select Choose... to display a list of all bookmarks folders).



Method 3

You can **import bookmarks** from other browsers.

Method 4

Drag and drop a link on a web-page onto the 'bookmarks' button on the right of the address bar.

Method 5

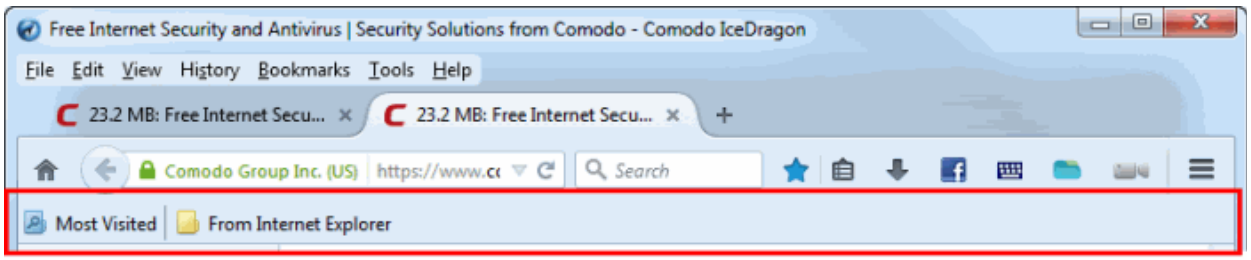
Use the keyboard short cut CTRL+D to create a bookmark of the web-page that you are currently viewing.

Further reading related to the topic of this page:

- **Finding and Editing Bookmarks**
- **Managing Bookmarks**
- **Importing and Exporting Bookmarks**

6.2. Finding and Editing Bookmarks

The bookmark bar under the address bar of the browser displays all your bookmark folders and bookmarks. If you have not docked the bookmark bar, follow the steps given below:



- **Dock the bookmark bar**
- **Add bookmarks to the bookmarks toolbar**
- **Relocate bookmarks on the bookmarks toolbar**
- **Right-click options**

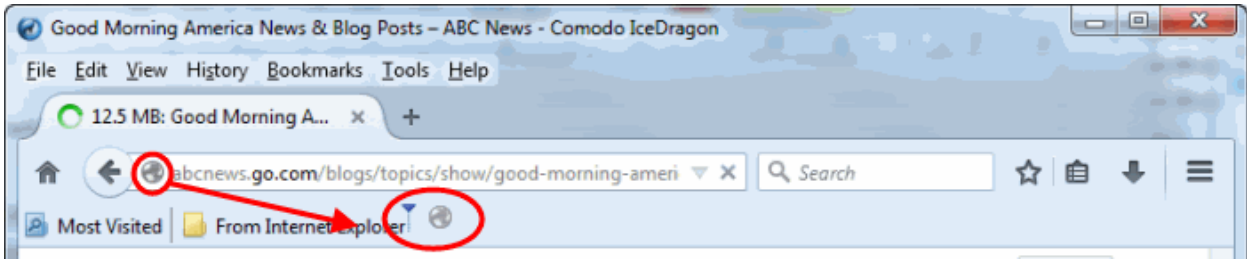
- **Editing bookmarks**
- **Deleting bookmarks**

To dock the bookmark bar

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Customize'.
- The 'Customize IceDragon' will be displayed
- At the bottom of the 'Additional Tools and Features' click the 'Show/Hide Toolbars' drop down and select the 'Bookmarks Toolbar'
- Click the 'Exit Customize' button.

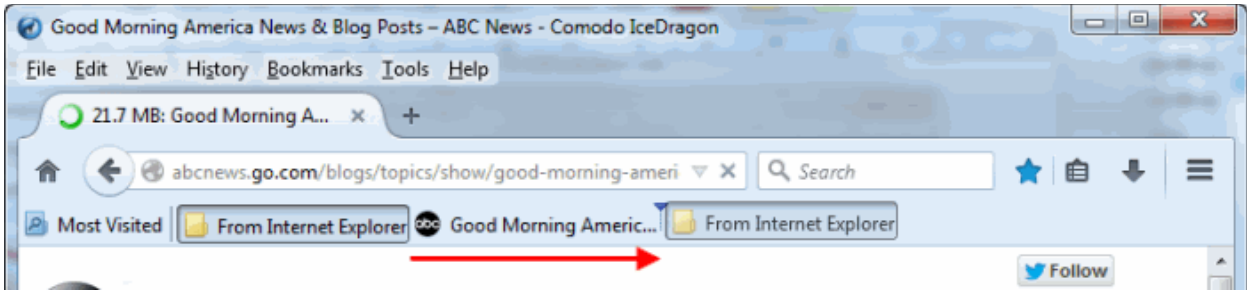
Add bookmarks to the bookmarks toolbar

- Open the web page to be added to the bookmarks toolbar
- Click and simply drag the web site icon on to the bookmarks toolbar in the Location bar



Relocate bookmarks on the bookmarks toolbar

Click on the bookmark or folder and drag it into new position.



Right-click options on the bookmark bar

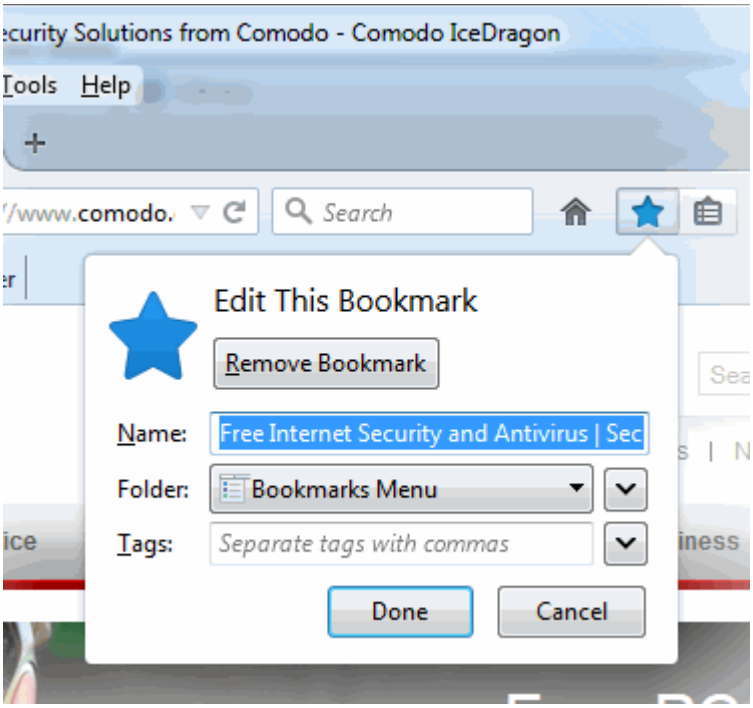
The following options are available when you right-click on the bookmark bar.

- Open All in Tabs
- New Bookmark
- New Folder
- New Separator
- Paste

To edit bookmarks

- Click a black star on the address bar.

- The 'Edit This Bookmark' dialog is displayed.



Here you can edit the name, web address of the bookmark. You can also create a new folder from here.

To delete bookmarks

- Open the page in your bookmarks
- Click the star icon next to the Search bar
- Right-click a bookmark on the bookmark bar.
- Click 'Remove Bookmark' in the 'Edit This Bookmark' window.

The selected bookmark will be deleted. Please note that when you delete a folder, all the bookmarks in the folder will also be deleted.

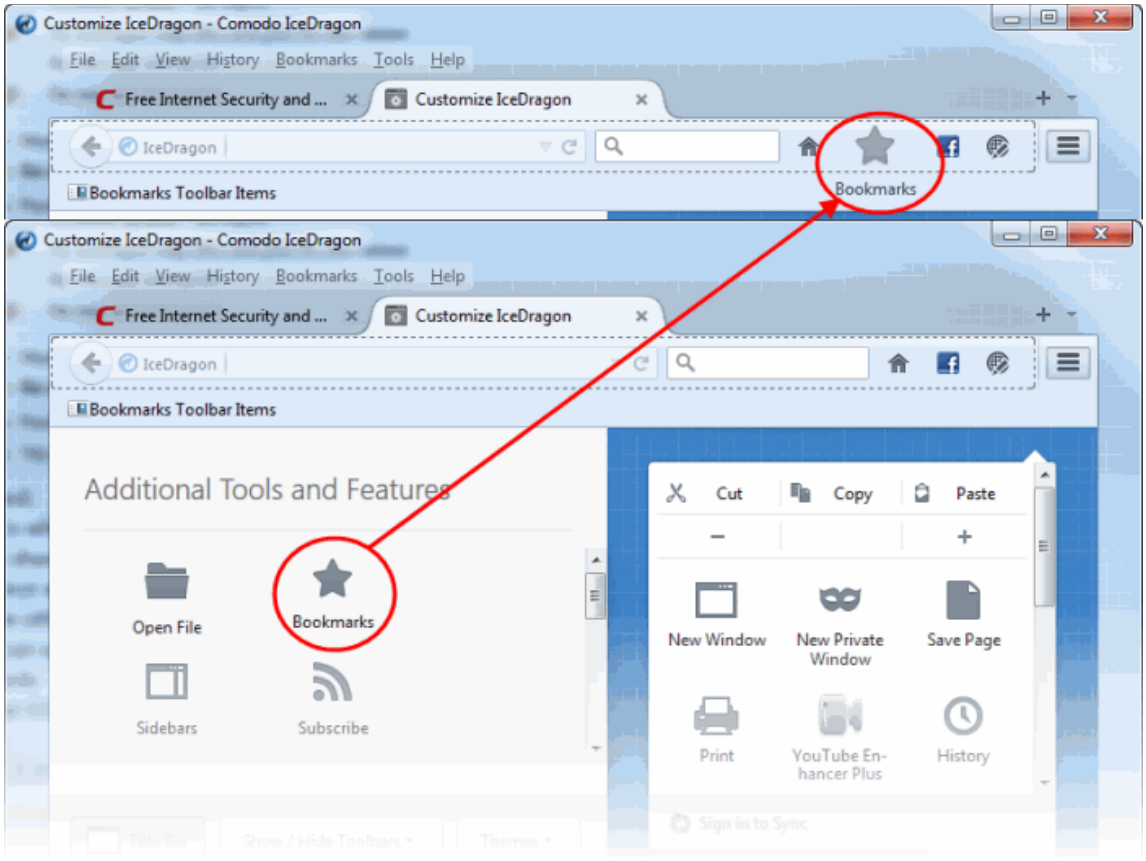
The IceDragon browser also allows you to configure your favorite, often-used bookmarks for easy and simple access and is docked under the address bar.

This section explains you on how to configuring your Bookmarks toolbar.

- **To set the toolbar items**
- **To show/hide bookmarks**
- **To add bookmarks**
- **To rearrange bookmarks**

To set a toolbar items

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Select 'Customize'. The Customize toolbar window will open.
- Drag the bookmarks tool to the bookmarks tool bar.



- Click the 'Exit Customize' button. The bookmarks icon will appear in the bookmarks tool bar.
- To remove an item, right-click the bookmarks icon and select 'Remove from Toolbar '

To show/hide the bookmarks toolbar

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Customize'.
- Uncheck the 'Bookmarks Toolbar', in the 'Show/Hide Toolbars' drop down

To add bookmarks

- Open a page you want to add to the Bookmarks toolbar.
- Click the bookmarks icon and it will be added onto the Bookmarks toolbar.

To rearrange bookmarks

To change the position of an item on the Bookmarks toolbar:

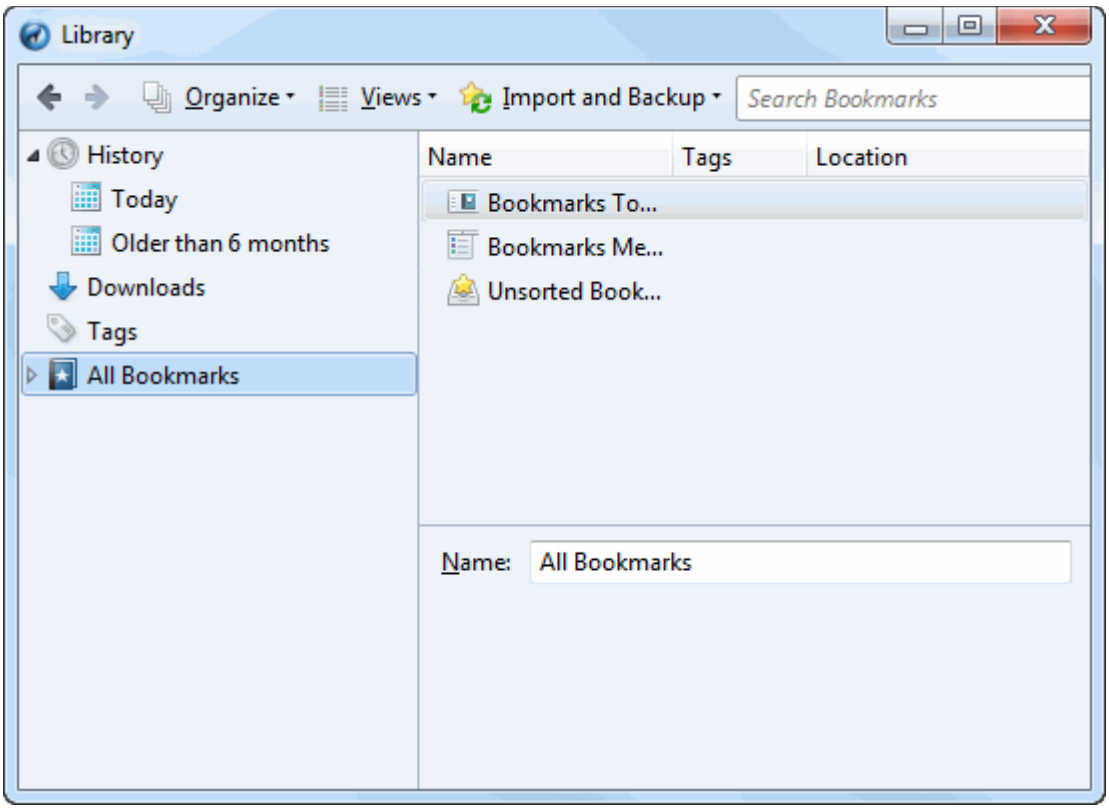
- Click on the bookmark or folder you want to move and drag it into position.

6.3. Managing Bookmarks

The managing bookmarks in Comodo IceDragon allows you to organize your bookmarks. Here you can edit, delete or rename bookmarks and folders. Right-click on any of the folder and open all the bookmarks in new tabs.

To open bookmark organizer

- Select 'Bookmarks' -> Show All Bookmark from the menu.
- The 'Library' interface will be displayed.



Here you can **view**, **search bookmarks**, **edit, rename**, **sort**, or **delete a one** or **multiple bookmarks**, **move a bookmark**.

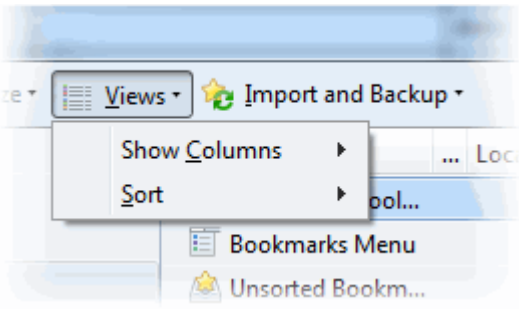
To search bookmarks

- Enter the bookmark name in the search box in the Library box to search the item.

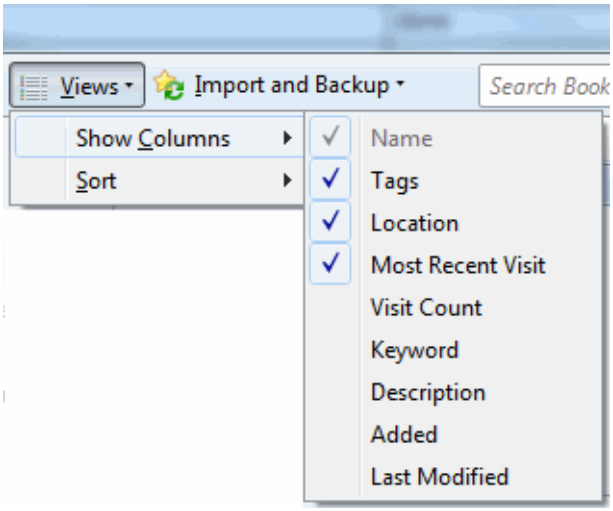
  Or
- Enter the bookmark name in the search box from the Side bar.

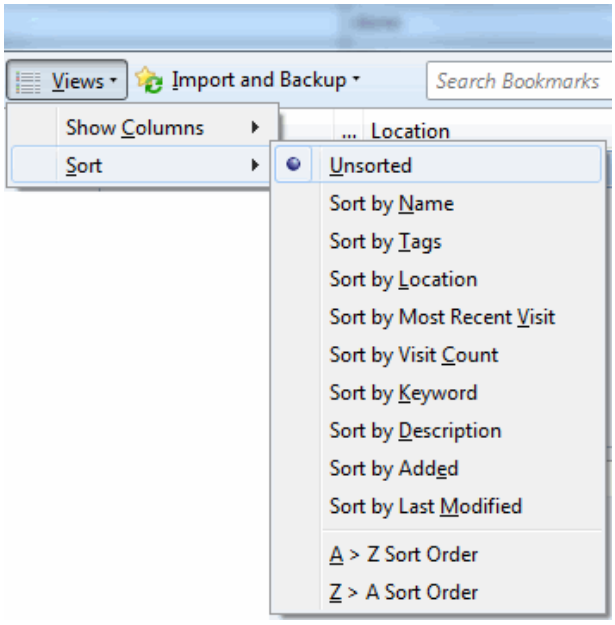
To view bookmarks

- Click 'Bookmarks' > 'Show All Bookmarks'.
- The Library dialog will be displayed.
- Click the 'Views' tab that allows you to show more informational columns in the right panel.



- The 'Views' tab also provides a wide range sorting abilities.



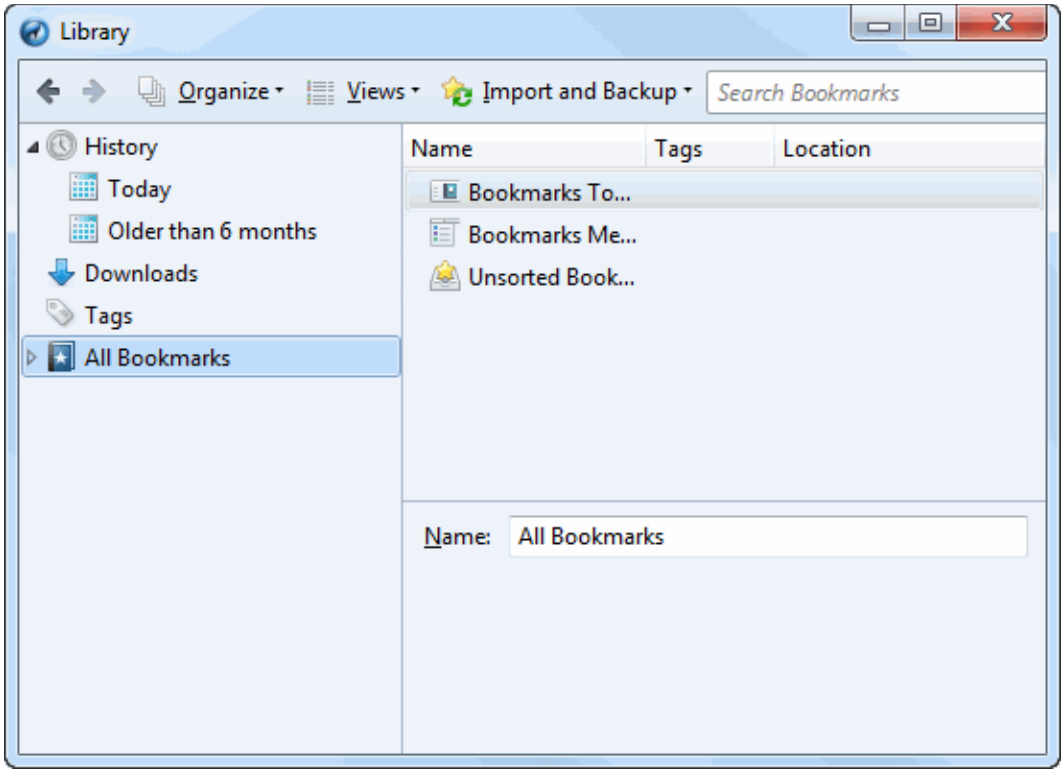


To rename a folder, bookmark or edit a web address

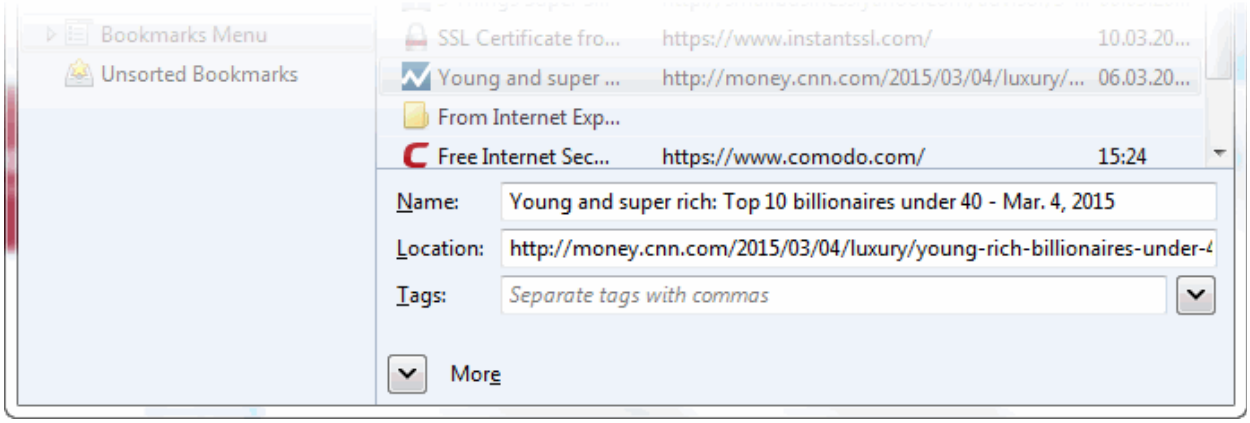
- Open a page you want to add to the Bookmarks toolbar.
- Click the star icon and in the 'Edit This Bookmark' edit the name of the bookmark.

OR

- Click the 'Bookmarks' menu > select 'Show All Bookmarks'.
- In the 'Library' menu, choose the bookmark to edit.

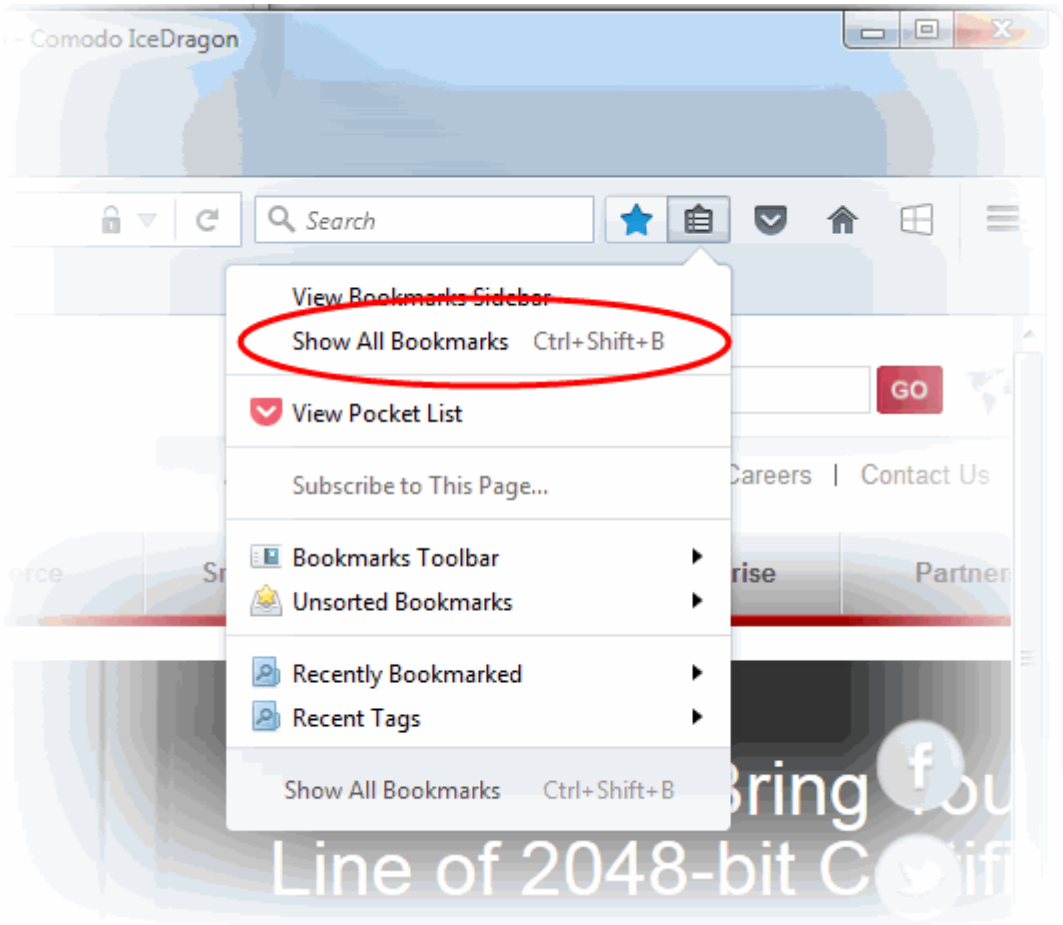


- In the The 'Properties' select the folder or location of a web address you want to rename from the beneath right hand site.

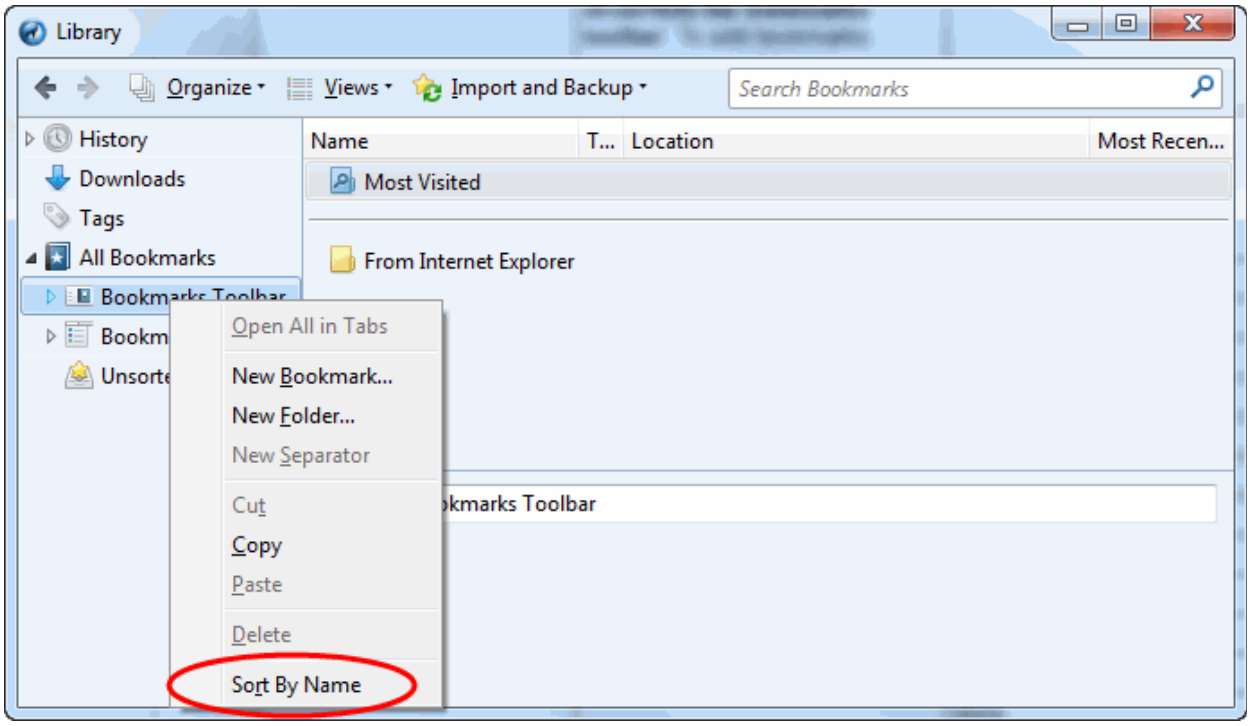


To sort bookmarks

- Click the Bookmarks button, then select 'Show All Bookmarks'



- The 'Library' will be displayed.



- Right-click on the folder you want to Sort By Name.

To add a new bookmark folder

- Select the location you want to add new bookmark folder in the left side.
- Click the 'Organize' menu and select 'New Folder'.

You can also right-click on the desired location and add a new folder from the menu.

To delete a single bookmark or folder

- Select the bookmark or folder you want to delete.
- Click on the icon in the Location bar.
- The 'Edit This Bookmark' box will be open.
- In the Edit This Bookmark box, click 'Remove Bookmark'.
- Alternatively, in the Library dialog click the 'Organize' menu > select the bookmark you want to delete > select 'Delete'.

You can also right-click on the item and select Delete from the menu.

To delete multiple bookmarks or folders

- Click the button on the right side of the navigation toolbar
- Select Show All Bookmarks to open the Library window.
- In the left pane, click on the folder you want to view. Its content will appear in the right pane.
- Click on the Organize button and select Delete (CTRL+ click to select the items you want to delete.)

To move bookmarks

Just click and drag a bookmark or folder to another destination to the folder list in the left side.

6.4. Bookmarks – Importing, Exporting and Backing up

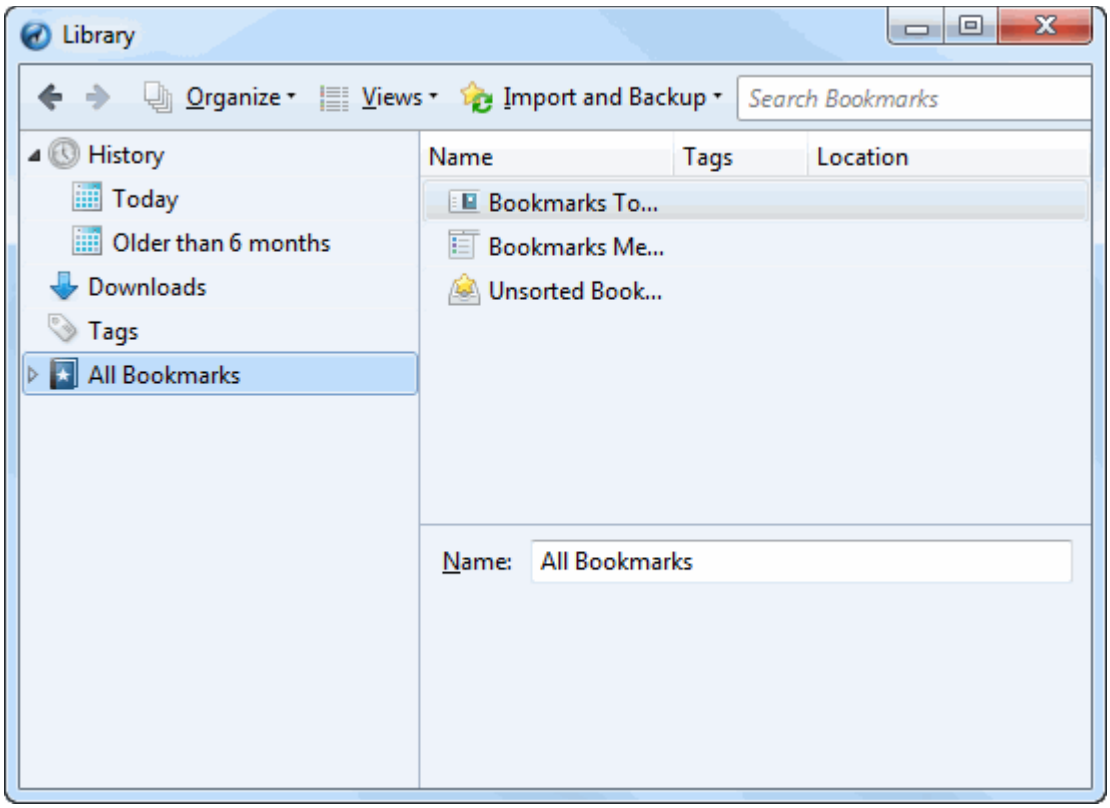
Comodo IceDragon allows you to import bookmarks from Internet Explorer, Chrome and Safari; allows you to export bookmarks to HTML and will automatically create backups of your bookmarks on a daily basis (allowing you to restore them at any point).

Click the following links for more help:

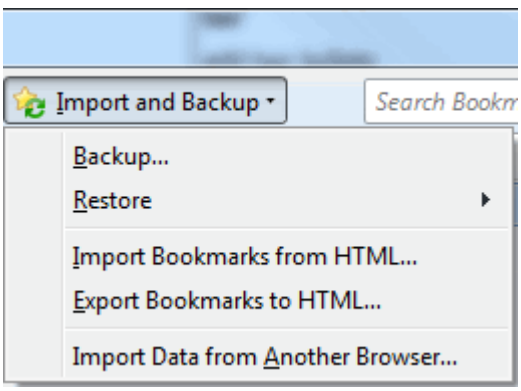
- **Importing bookmarks**
- **Importing bookmarks from any browser as a HTML file**
- **Exporting bookmarks**
- **Restoring from backup**

To import bookmarks from Internet Explorer, Chrome or Safari

- Click the Bookmarks button then select 'Show All Bookmarks'
- The Library dialog will be opened.



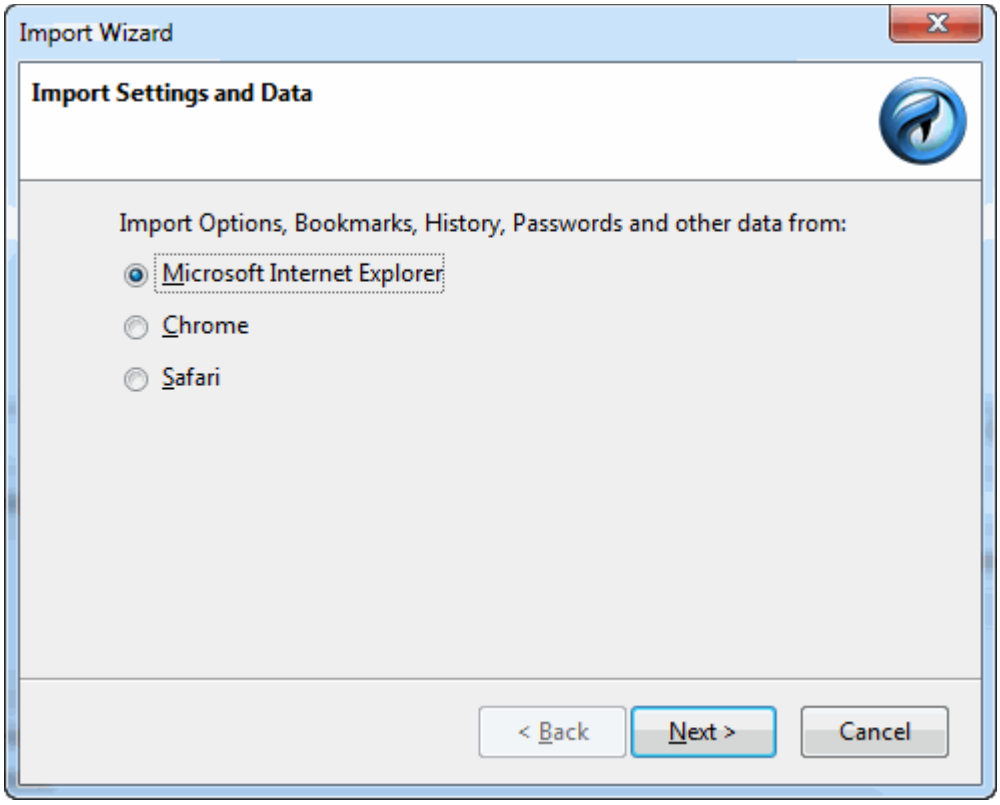
- Click 'Import and Backup'.



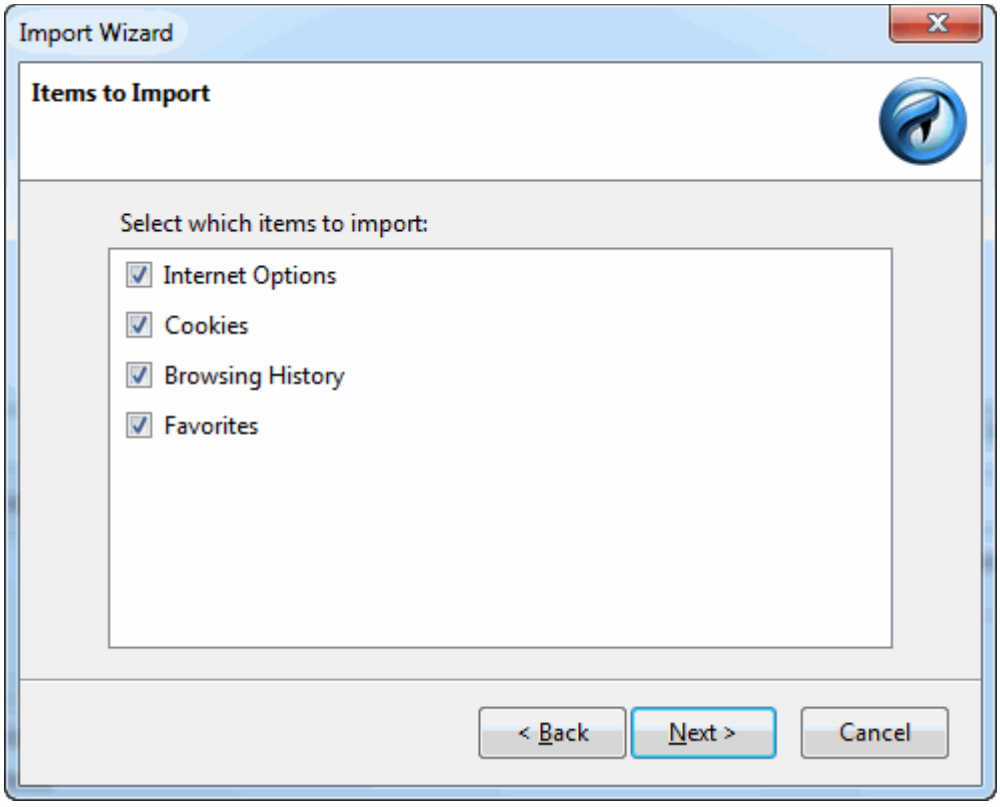
- Select 'Import Data from Another Browser'.

Note: 'Import from Another Browser' is disabled in Private Browsing mode.

- The 'Import Wizard' dialog will be displayed.

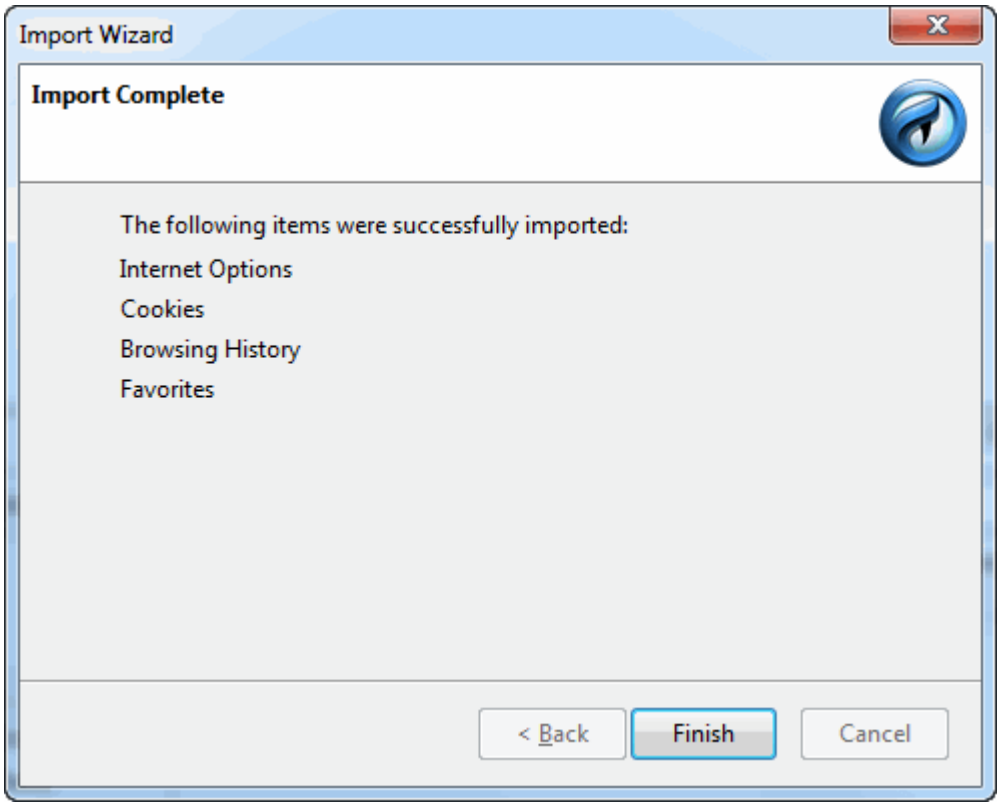


- Select the browser from which you want to import then the specific items you wish to import:

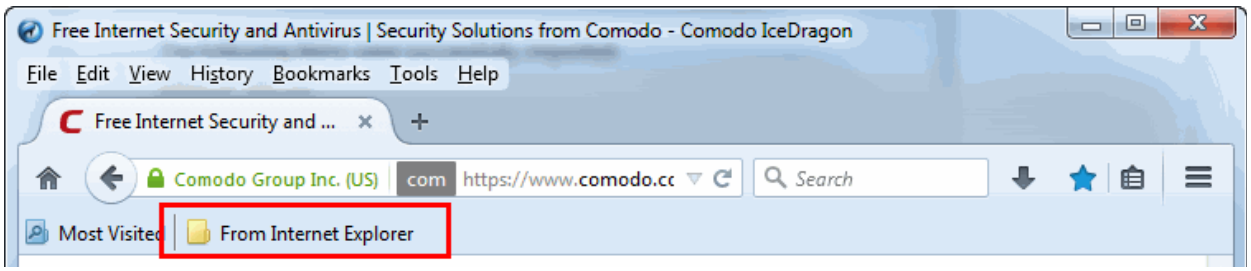


- **Internet Options**: Imports general browser settings.
- **Cookies:** Small files stored on your computer by websites you have visited that contain information about your preferences while on that website. Cookies are used for such things as keeping you logged in to a website and to save your site preferences.
- **Browsing History**: A list of URLs that you have recently visited
- **Favorites:** (also known as 'Bookmarks'). Imports your bookmarks from the source browser
- **Saved Passwords** (Chrome only) – A list of passwords that you asked your browser to save
- **Preferences** (Safari only) – Imports preferences saved in your browser

- Click the 'Next' button then click 'Finish' at the confirmation dialog:



The bookmarks from the other browser will now be available in Comodo IceDragon in a folder named **From Internet Explorer**, **Safari** or **From Chrome**. To view and access your bookmarks, simply click the bookmarks button. All Bookmarks (included any imported) will be listed in the menu:



To import bookmarks from any browser as a HTML file

- Click the Bookmarks button then select 'Show All Bookmarks'
- The Library dialog will be opened.
- Click the 'Import and Backup' tab on the Library window.
- Click 'Import Import Bookmarks from HTML'.

- Navigate to the HTML file saved in your computer and click 'Open'.

To export bookmarks from IceDragon

Exported bookmarks can be imported into other browsers.

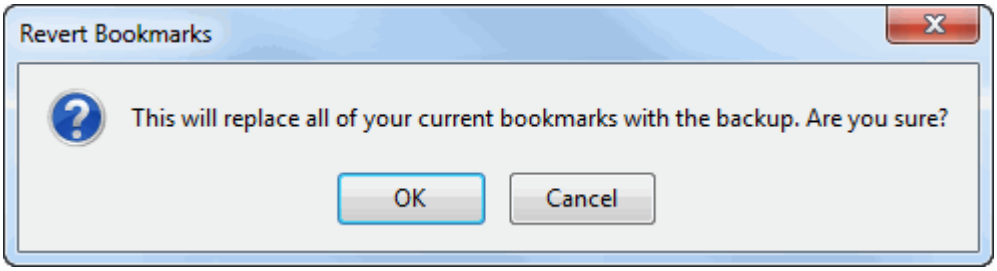
- Click the Bookmarks button then select 'Show All Bookmarks'
- Click the 'Import and Backup' tab on the Library window.
- Select 'Export Bookmarks to HTML' option.
- Choose a location where you want the bookmarks to be saved and click the 'Save' button.

The bookmarks will be saved as a HTML file.

To restore from backup

- Click the IceDragon button at the top left corner:
- Select 'Bookmarks' from the menu > Show All Bookmarks.
- Click the 'Import and Backup' tab on the Library window.
- Click Restore. Select the backup from which you want to restore
  - The dated entries are automatic backups.
  - Choose File... lets you restore from a manual backup.

The 'Revert Bookmarks' dialog will appear, click 'OK'.



After choosing a backup, your bookmarks will be restored.

7. Privacy And Security

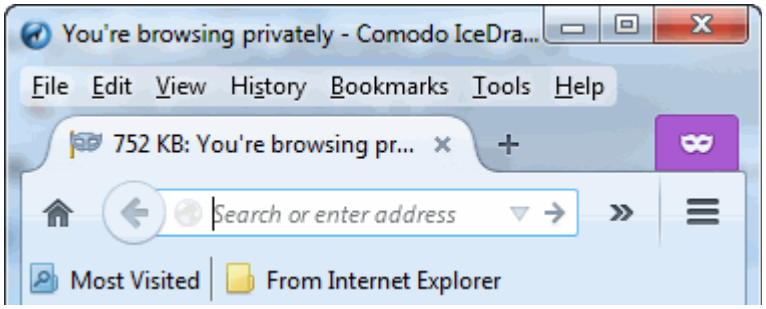
This section explains how to configure privacy and security settings in Comodo IceDragon as per your browsing requirements. Under their default configuration, the Privacy and Security settings are designed to ensure your private data remains safe and secure while browsing online. Click the links to find out more:

- **Private Browsing**
- **Deleting browsing history and configuring history settings**
- **Allowing/blocking pop-up windows**
- **Managing cookies**
- **Blocking websites from tracking your browsing history**
- **Configuring suggestions while entering website address**
- **Managing automatic installations of add-ons and blocking insecure add-ons**
- **Managing passwords**
- **Configuring advanced settings**
- **SSL Certificates and Secure Connections**

- **Website Security Indicators**
- **SSL/HTTPS security settings**
- **Force Secure Connections**

7.1. Private Browsing

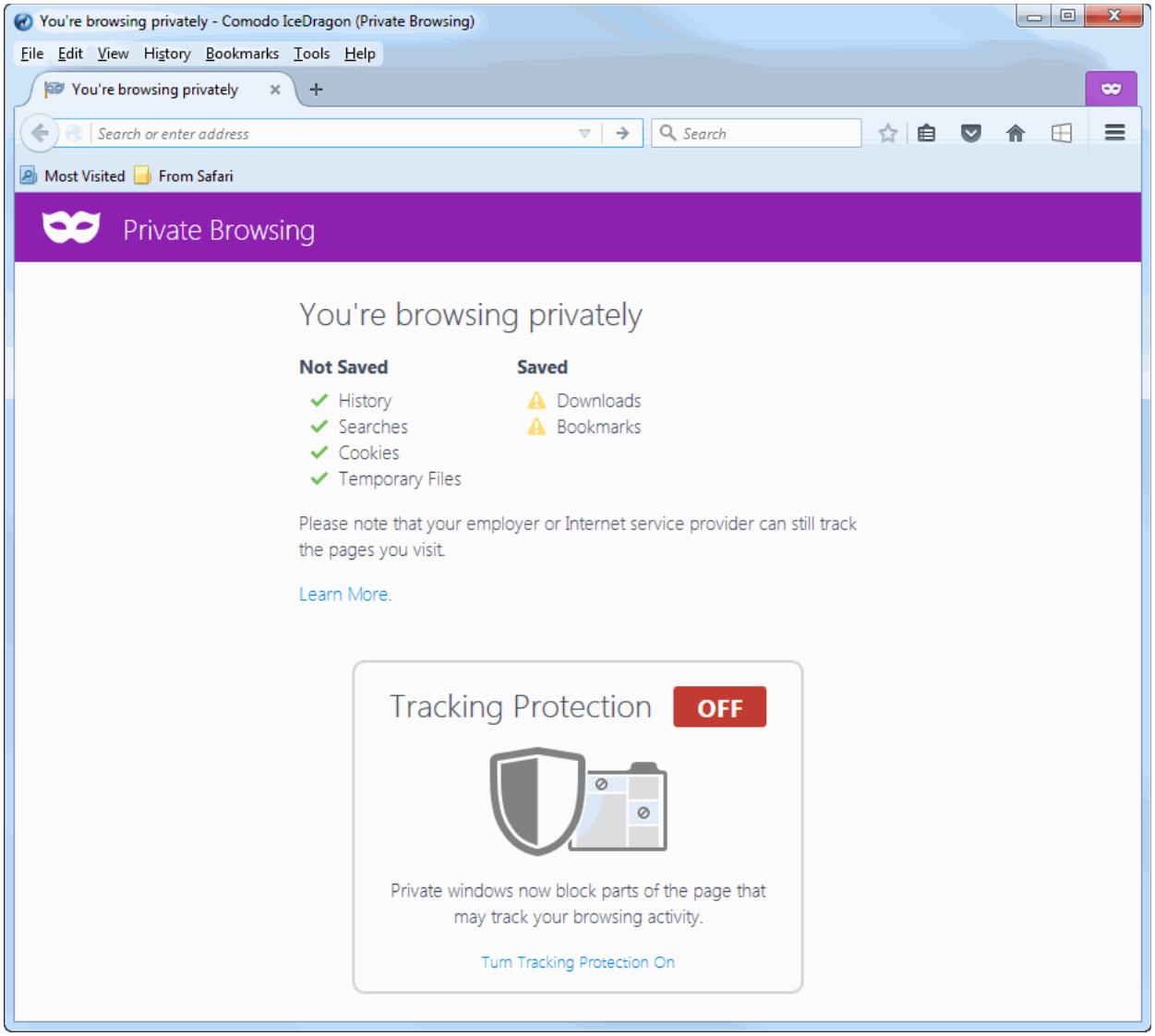
In a Private Browsing session, IceDragon will not keep any browser history, search history, download history, web form entries, cookies, passwords or temporary internet files. However, any files you download and bookmarks you make will be kept. This helps improve your overall security by removing any local copies of Internet activity.



To start a Private Browsing session

- Click the IceDragon mer located at the top right corner of the browser
- Select 'New Private Window'
- Alternatively, if the title bar is enabled, click 'File '> 'New Private Window'

To help you easily identify whether the feature is switched on or not, the mask in magenta square appears while in 'Private Browsing' mode:



Tracking Protection – Turn tracking protection on to block website elements that could track your browsing activity. Refer to **Blocking Websites From Tracking Your Browsing Activities** for more detailed information.

- Start your browsing session as you would any other - by entering a URL or search terms in the address bar or selecting a page from your bookmarks.
- At the end of your browsing session, click '**X**' on the private window interface

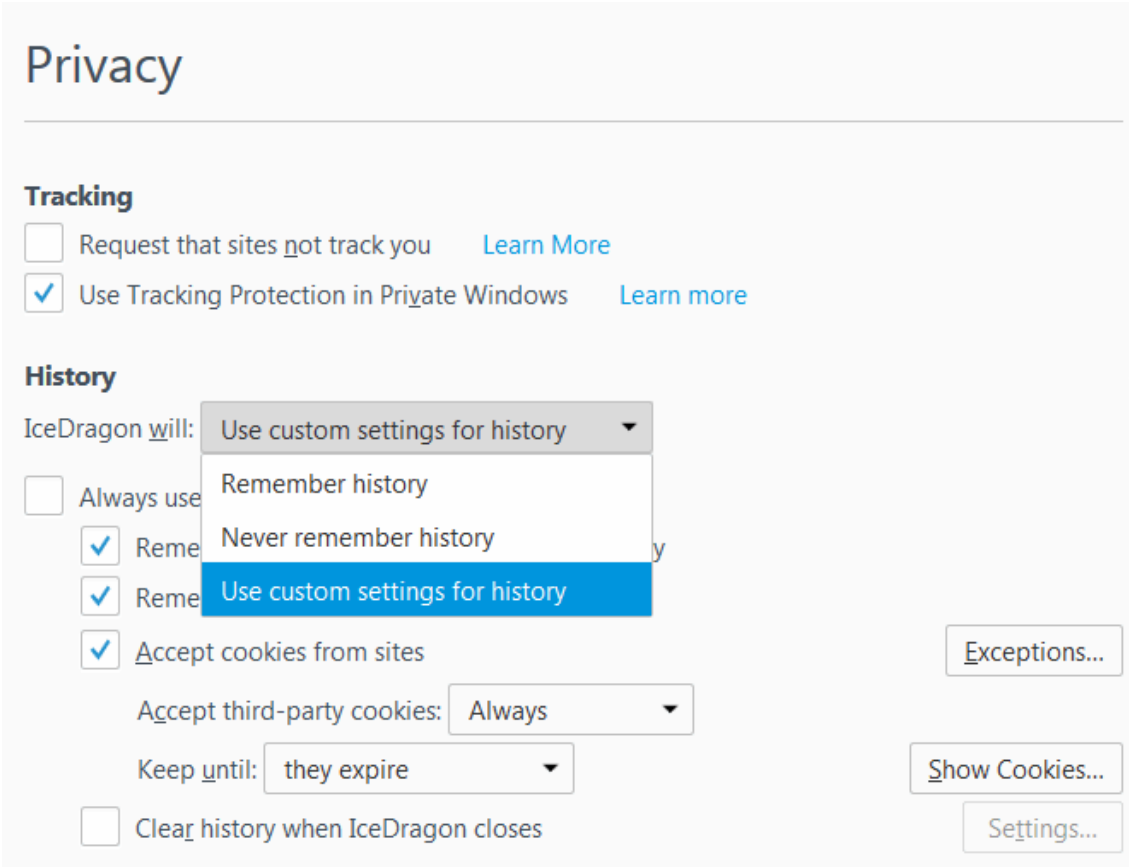
  OR
- Click 'Tools' > 'Options' > 'Privacy' and in the 'History' section, deselect in IceDragon will: 'Never remember history' and uncheck 'Always use private browsing mode' box.

Your current tabs will be closed and all your browsing traces will be erased. The tabs and pages of your previous browsing session will be resumed.

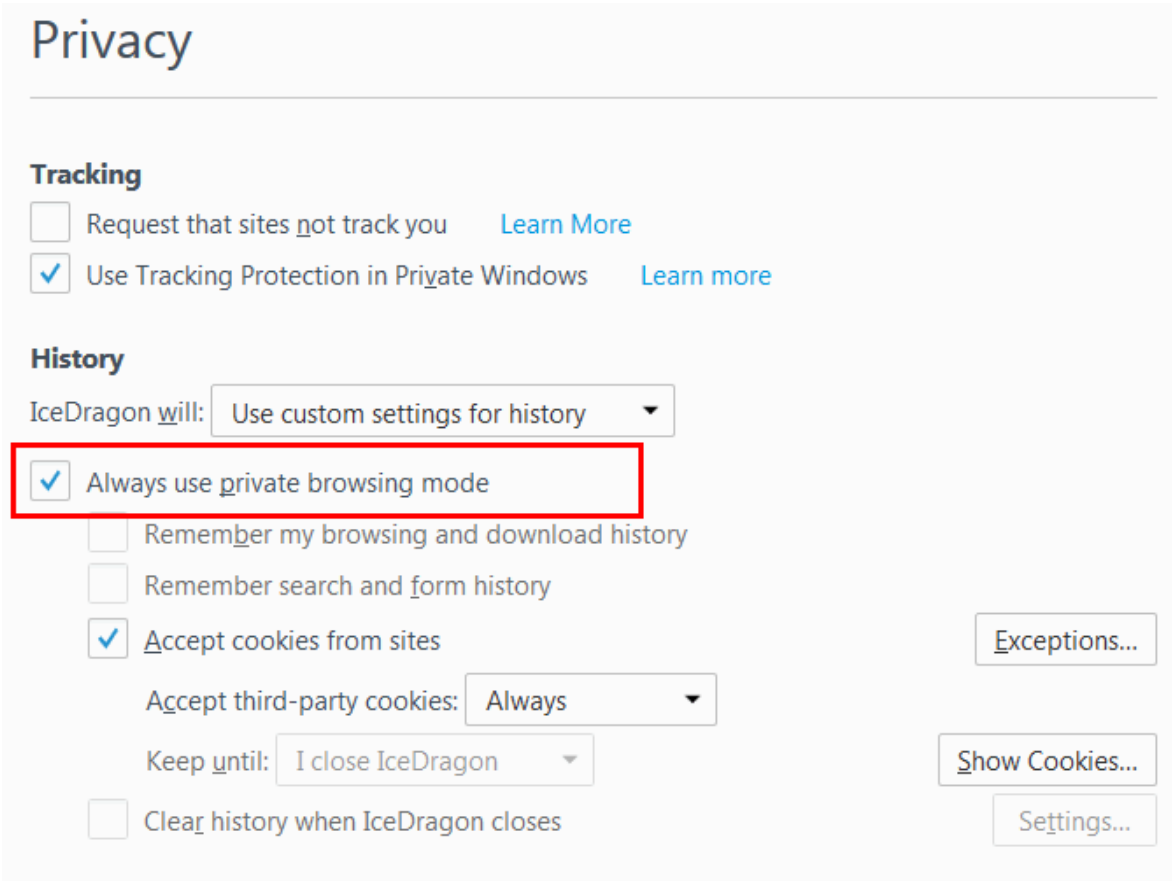
Enabling Private Browsing Permanently

If you want all your browsing sessions to be kept private, you can enable private browsing permanently,

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > the 'Privacy' tab
- Under the 'History' section, in the 'IceDragon will' drop-down select 'Use custom settings for history'



- Enable 'Always use private browsing mode'



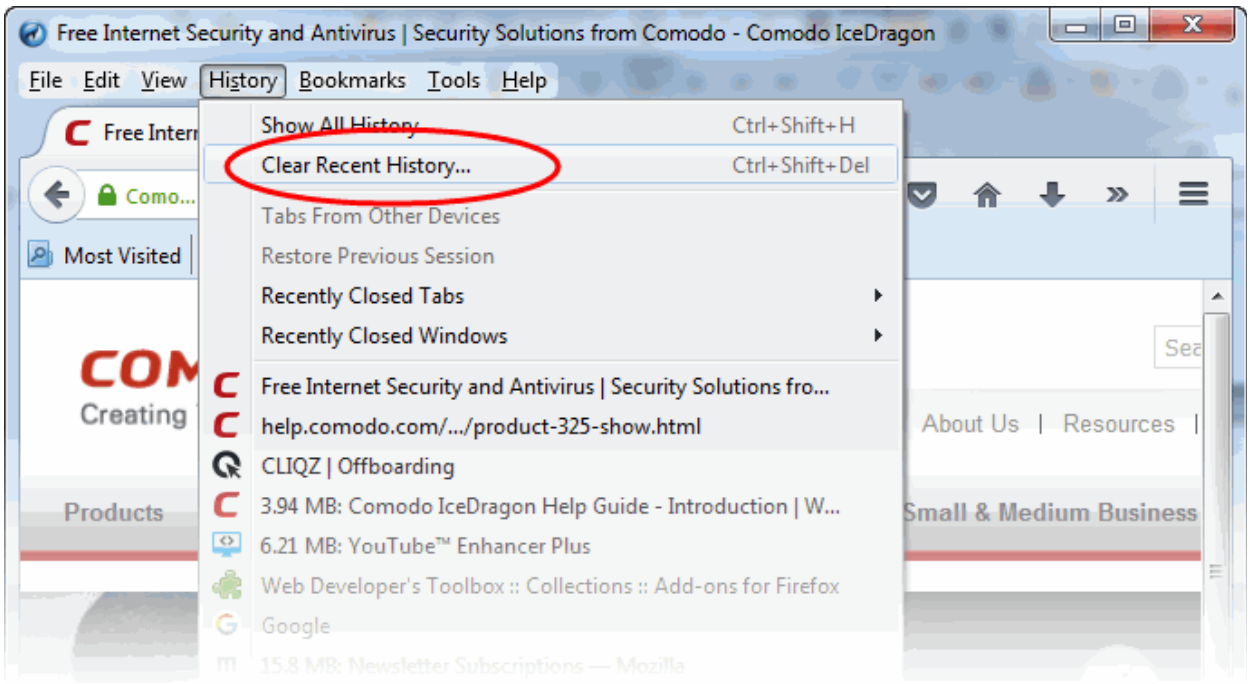
7.2. Deleting Browsing History and Configuring History Settings

By keeping a record of the websites you have visited, files you have downloaded, temporary Internet files and site preferences, Comodo IceDragon speeds up access to websites that you visit regularly. This page explains how to clear browsing history and how to configure history settings.

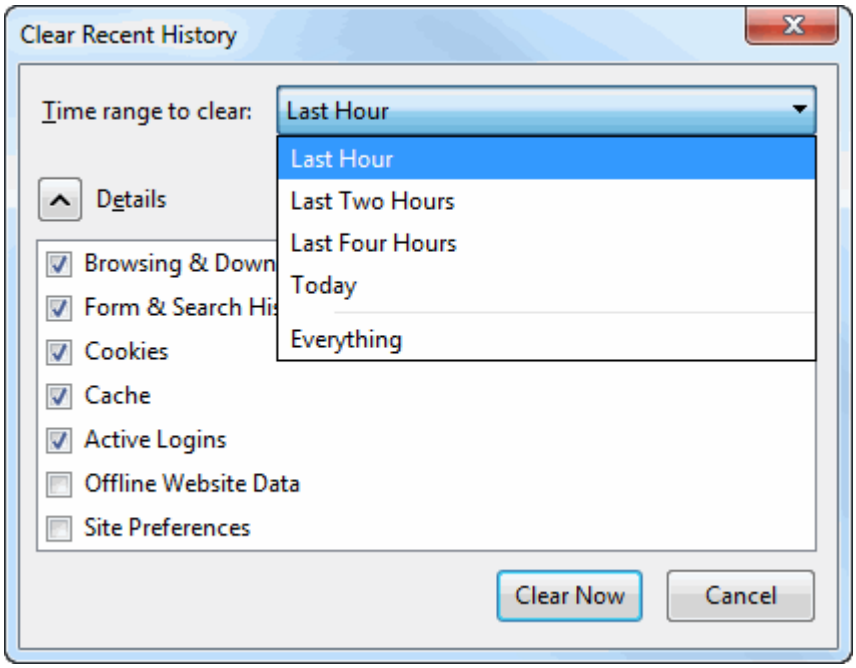
- **Deleting Browsing History**
- **Configuring History Settings**

Deleting browsing history

- Select 'History > 'Clear Recent History'



- In the 'Clear Recent History' dialog, select the period that you want to clear history from the 'Time range to clear' drop-down box. Leaving this at the default of 'Everything' will clear all history information in your browser.
- Click 'Details' to display the items from which you can select for the history information to be removed.



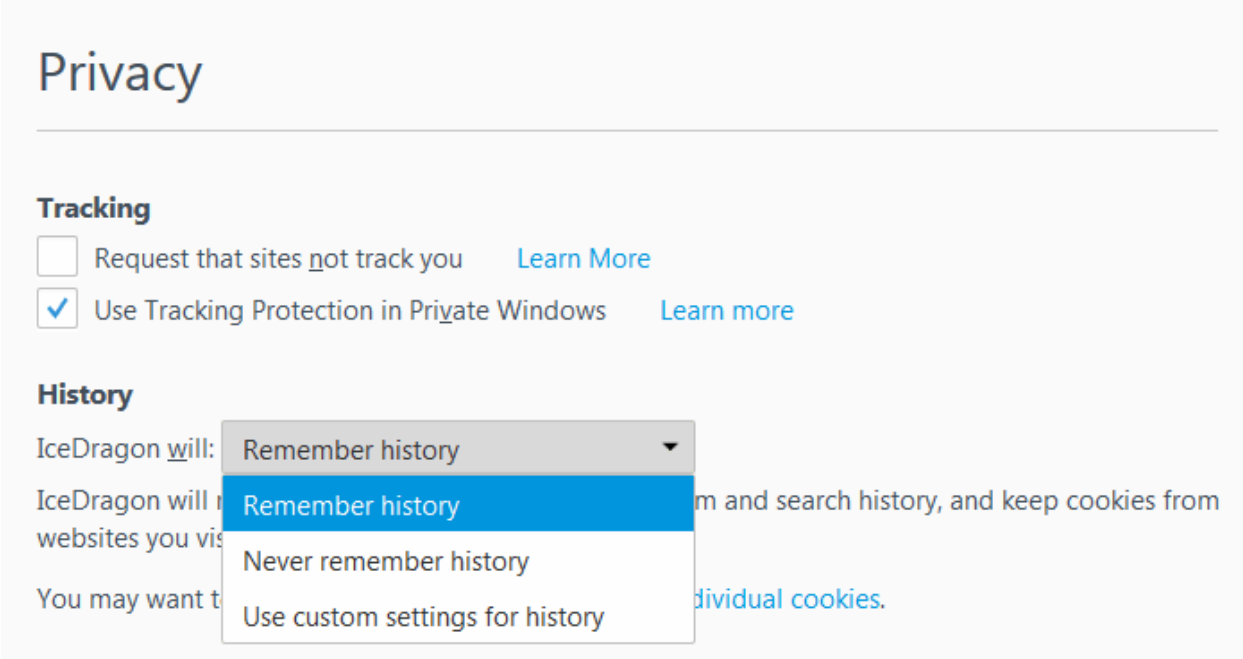
- Select the items you wish to delete and click 'Clear Now'. The following items can be deleted:
  - **Browsing and Download History** – Browsing history is the list of websites that you've visited and the download history is the list of files that you've downloaded.
  - **Form and Search Bar History** – Form history are the list of terms that you've entered in web page forms and these terms will be listed in a drop-down menu in the Auto Form Fill as you start entering the first few letters in the form field.
  - **Cookies** - Cookies are small pieces of information sent by websites that you've visited which are stored by your web browser. Cookies are used by these websites to store your preferences about that website (for example, if you ask a website to 'Keep me logged in' or similar, it is the cookie that keeps a record of this preference).
  - **Cache** - The cache memory stores temporary files, such as of web pages that you've visited, which will help to load the pages much faster when you are visiting any of them once again.
  - **Active Logins** - Authenticated sessions that are still active, that is, if you've logged into a website that requires authentication, are called active logins.
  - **Offline Website Data** - If you've saved a webpage as 'Web Page, complete' in the save as option in the File menu, you can view the page even if you are not connected to the Internet.
  - **Site Preferences** - Settings configured by you for certain websites such as zoom level and permissions.

Configuring History Settings

The 'Privacy' section of 'Options' allows you to specify default History settings for IceDragon.

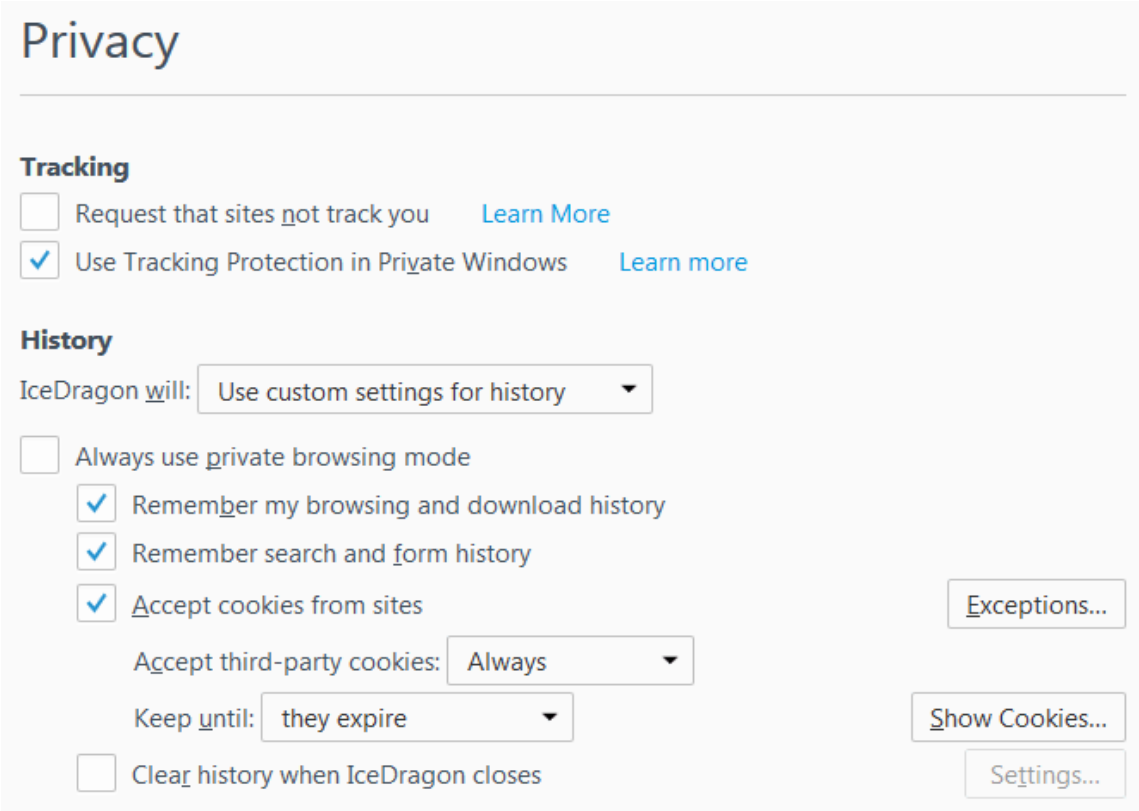
To configure these settings:

- Click the IceDragon menu located at the top right corner of the browser
- Select the 'Privacy' tab.
- In the 'History' section, you can specify default behavior in the 'IceDragon will:' drop-down

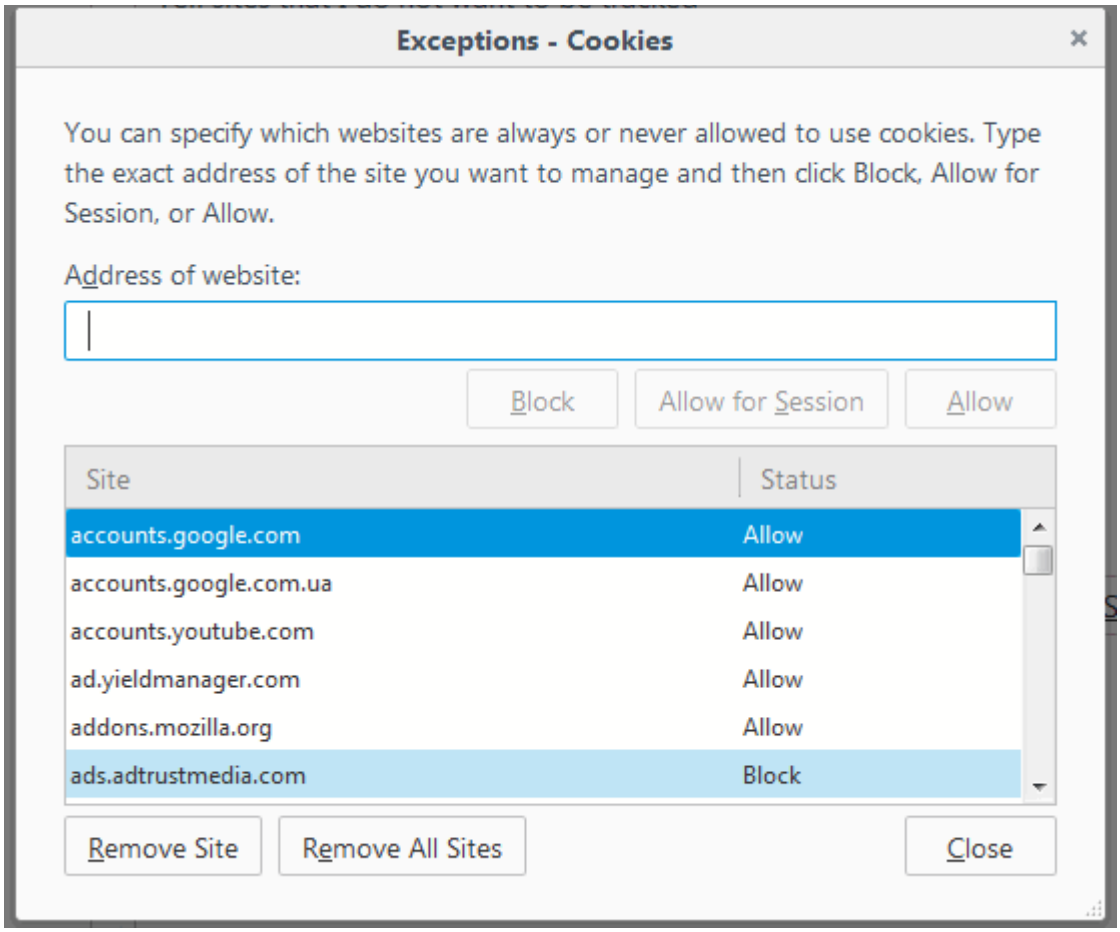


The options available are:

- **Remember history** – The browser will always remember history and you have to clear it manually as explained in the first half of this page.
- **Never remember history** – The browser will never store any history.
- **Use custom settings for history** – If you select this, you have the following options:
  - Always use private browsing mode – If you select this option, IceDragon will always open in private browsing mode. Refer the topic '**Private Browsing**' for more details.



- If you select 'Always use private browsing mode', you have the option to 'Accept cookies from sites'. This will allow the browser to accept first-party and third-party cookies from the websites that you visit.
- The 'Exceptions...' option allows you to configure which websites are allowed, blocked or for that session only to use cookies irrespective of whether you choose 'Accept cookies from sites' or not.

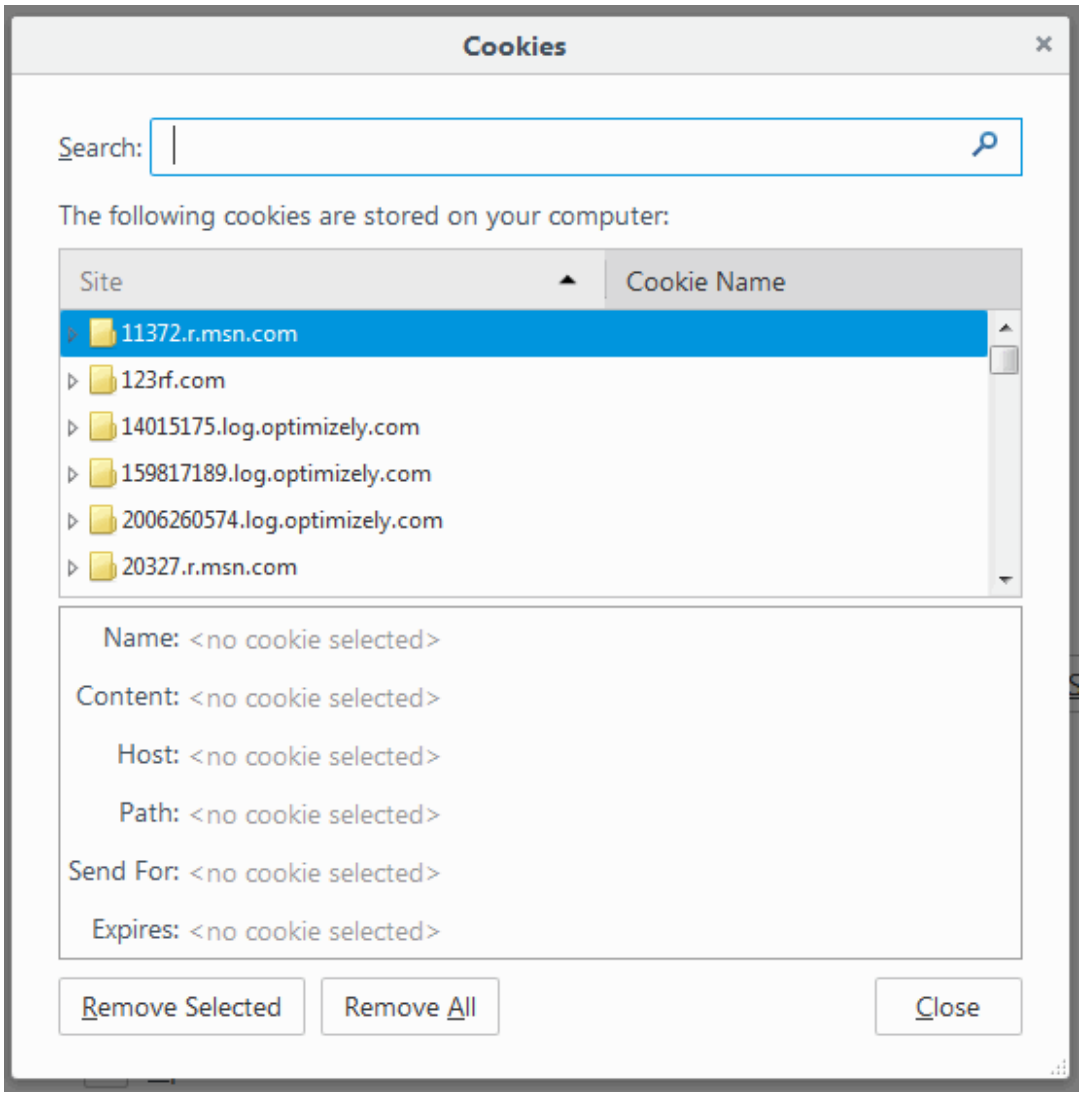


Enter the exact address of the website in the 'Address of website' field' and select any of the options:

- **Block** – The browser never allows any cookies from that website.
- **Allow for Session** – The browser allows cookies for that session only and not stored.
- **Allow** – The browser allows cookies and stores the cookies permanently until cleared manually.

If you want to remove a site from the list, select it and click the 'Remove Site' button. To remove all the sites, click the 'Remove All Sites' button from the exceptions list.

You can view the cookies that are stored in your browser by clicking the 'Show Cookies' button.



In the 'Cookies' screen, you can view the details of the cookies.

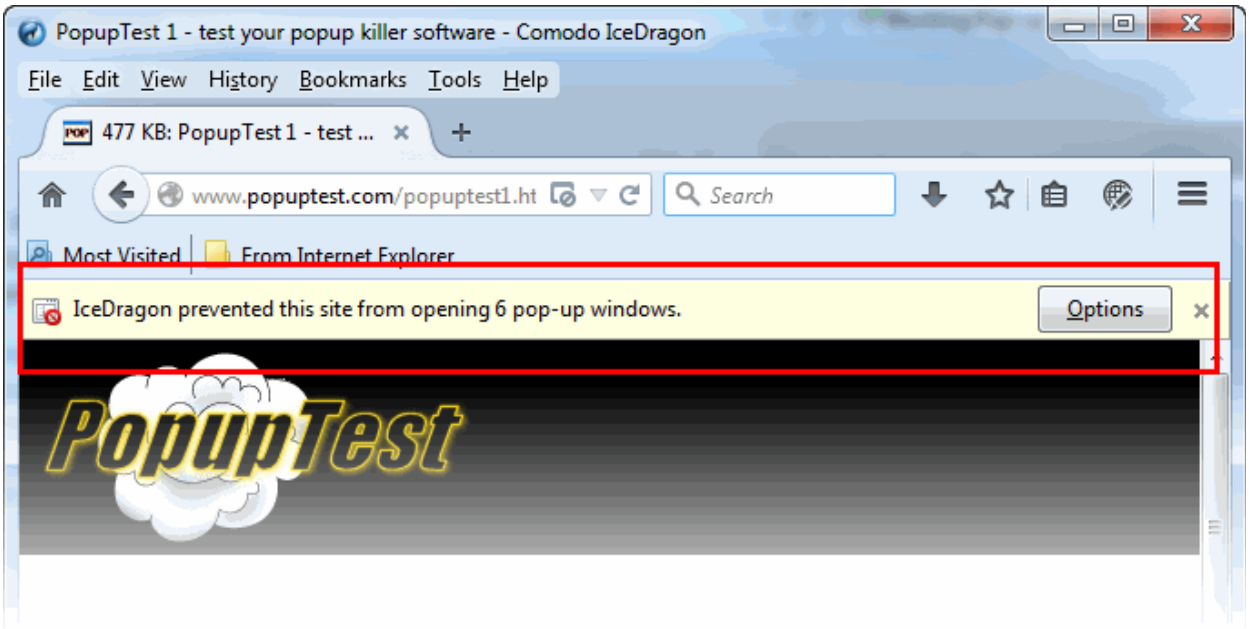
To delete cookies

- Select the site whose cookies you want to delete and click 'Remove Selected'
- Click 'Remove All' to delete all cookies.

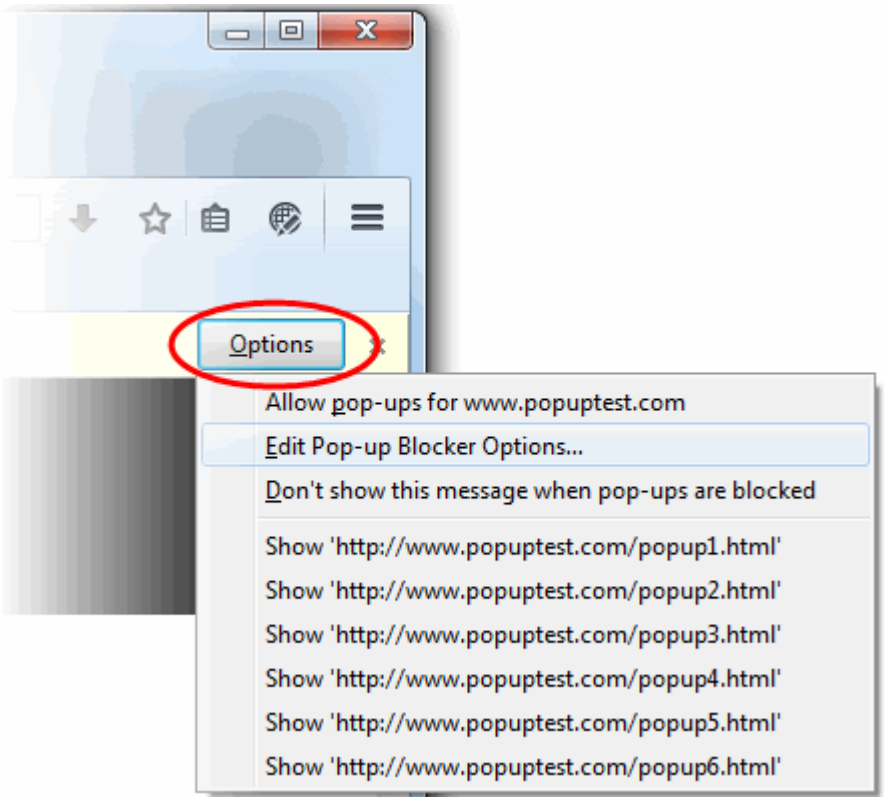
7.3. Allowing/Blocking Pop-up Windows

Many websites open pop-up windows to display advertisements and other features. While many of them are used for genuine purposes (for example, banking sites use pop-ups for login screens and providing warnings), some may be used for malicious purposes like injecting rootkits, keyloggers and other malware. Other pop-ups can just be plain annoying adverts. By default Comodo IceDragon blocks pop-up windows. You can configure IceDragon to allow or block pop-ups as you wish and can add exceptions so that pop-ups from selected websites are always allowed.

When a website tries to open a pop-up, IceDragon displays an information bar.

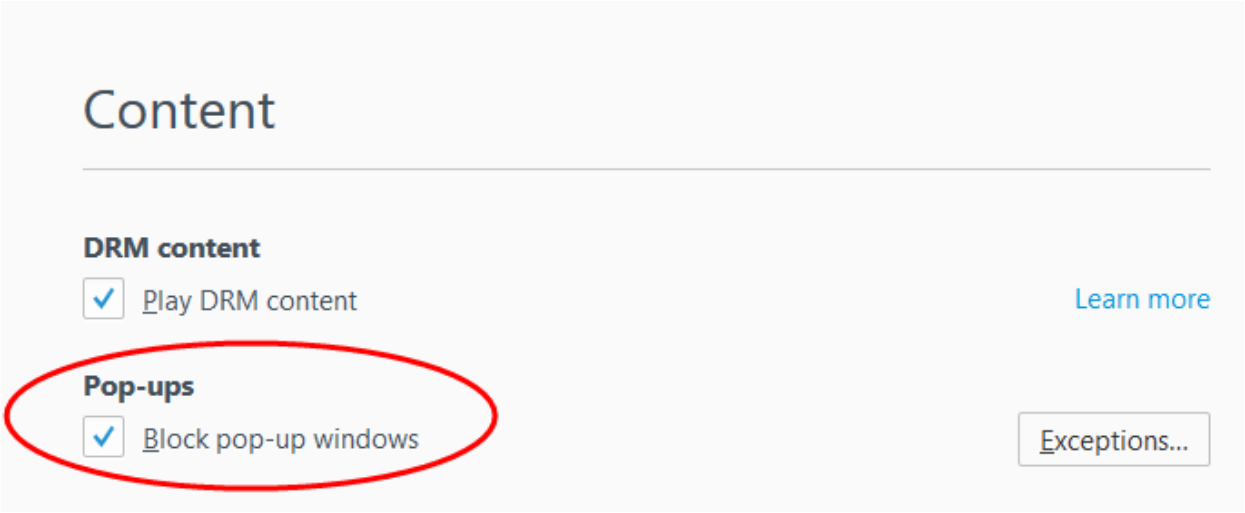


- You can temporarily allow or block pop-ups from that website in an ad-hoc manner by clicking Options > Allow pop-ups for <website>.

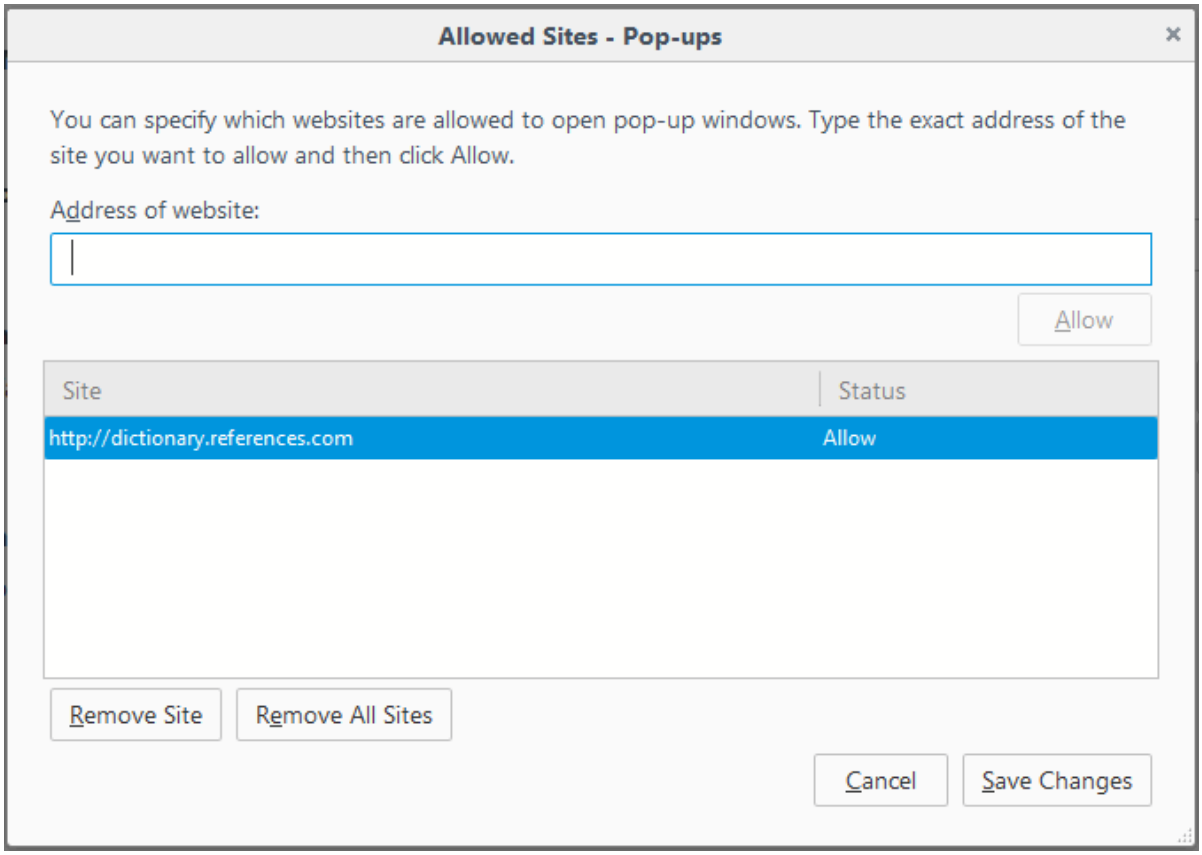


To configure pop-up windows

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options'> click the 'Content'



- To block pop-up windows, make sure the 'Block pop-up windows' box is enabled
- To permanently allow pop-ups from all websites, deselect the check-box (not recommended)
- To add exceptions for pop-ups, click 'Exceptions'



- Enter the URL of the website for which you want to allow pop-ups permanently in the 'Address of website' field and click 'Allow'

The website will be added to the list of pop-up allowed websites. All the pop-up windows opened by this website will be allowed regardless of your setting in 'Block pop-up windows' check box.

- Click 'Save Changes'

7.4. Managing Cookies

Cookies are small files stored in your browser by websites that you've visited. These files contain information about your website preferences (for example, if you ask a website to 'Keep me logged in' or similar, it is the cookie that keeps a record of this preference), browsing history and can sometimes be used to authenticate you.

While many (if not most) cookies are stored for the well intentioned reason of service improvement, they can be used to track you and can often contain private authentication data. A search engine may store cookies to fetch your search history and will display targeted adverts to you on various webpages you visit. Some malicious sites may use cookies to log sensitive information about you. Hackers could, in theory, intercept a cookie sent from your browser to a website and extract sensitive data. To maintain your privacy and security, you need to clear cookies from your browser periodically and evaluate your overall policy regarding allowing or blocking cookies.

By default, Comodo IceDragon accepts cookies from the websites you visit. But it can be configured to allow or block cookies from websites and to add exceptions to permanently accept cookies from genuine sites and to permanently block cookies from sites that you do not trust.

Click the links below for more help:

- **Clearing Cookies**
- **Viewing and removing stored cookies individually**
- **Allowing/Block cookies**
- **Adding exceptions for storing cookies**

Clearing Cookies

Cookies are automatically cleared when you clear browsing history or if you have configured IceDragon to clear browsing history on exit under Options > Privacy > History.

If you want to clear cookies at an instant manually,

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Privacy' tab
- Check the option for 'IceDragon will:' under the 'History'.

Remember History

If 'Remember History' is chosen,

- To delete the browsing history along with the cookies click the link '**clear your recent history**'
- To delete cookies individually click the link 'remove individual cookies'. The Cookies dialog will open. The Cookies dialog allows you to remove cookies individually. Refer to '**Viewing and removing stored cookies individually**' for more details.

Never remember history

If 'Never remember history' is chosen,

- To delete your browsing history along with the cookies click the link 'clear all current history'

Use custom settings for history

If 'Use custom settings for history' is chosen,

- Click 'Show Cookies'. The Cookies dialog will open. The Cookies dialog allows you to remove cookies individually. Refer to 'Viewing and removing stored cookies individually' for more details.

Viewing and Removing Stored Cookies Individually

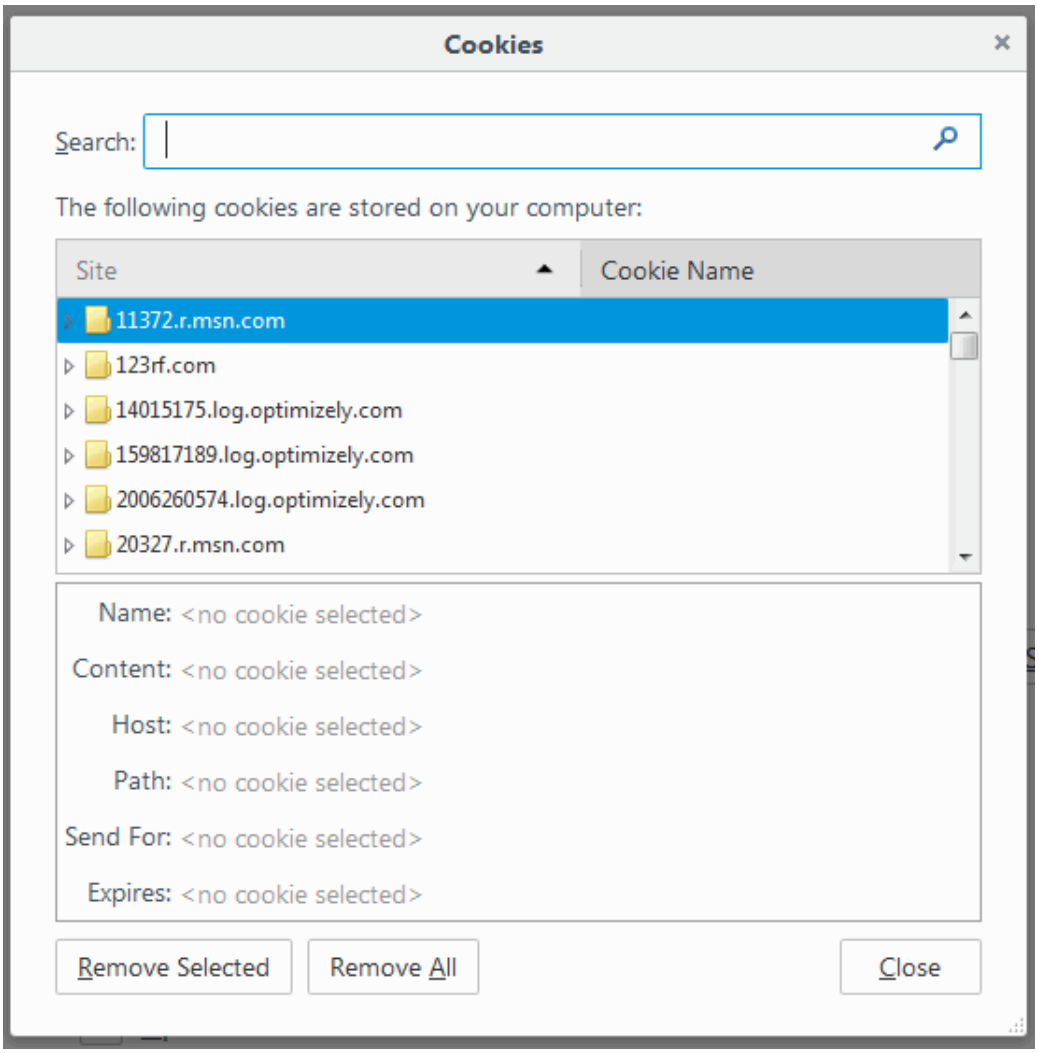
The Cookies dialog displays a list of cookies stored in your browser and enables you to remove them selectively.

To access the Cookies dialog

- Click the IceDragon menu located at the top right corner of the browser
- Click Options > 'Privacy' tab

- If 'Remember History' is chosen for 'IceDragon will:' under the 'History', click the link 'remove individual cookies'
- If 'Use custom settings for history' is chosen for 'IceDragon will:' under the 'History', click 'Show Cookies' button

The 'Cookies' dialog will open.



The dialog displays the list of stored cookies stored by different websites you have visited. To view individual cookies, click 'arrow' beside the website.

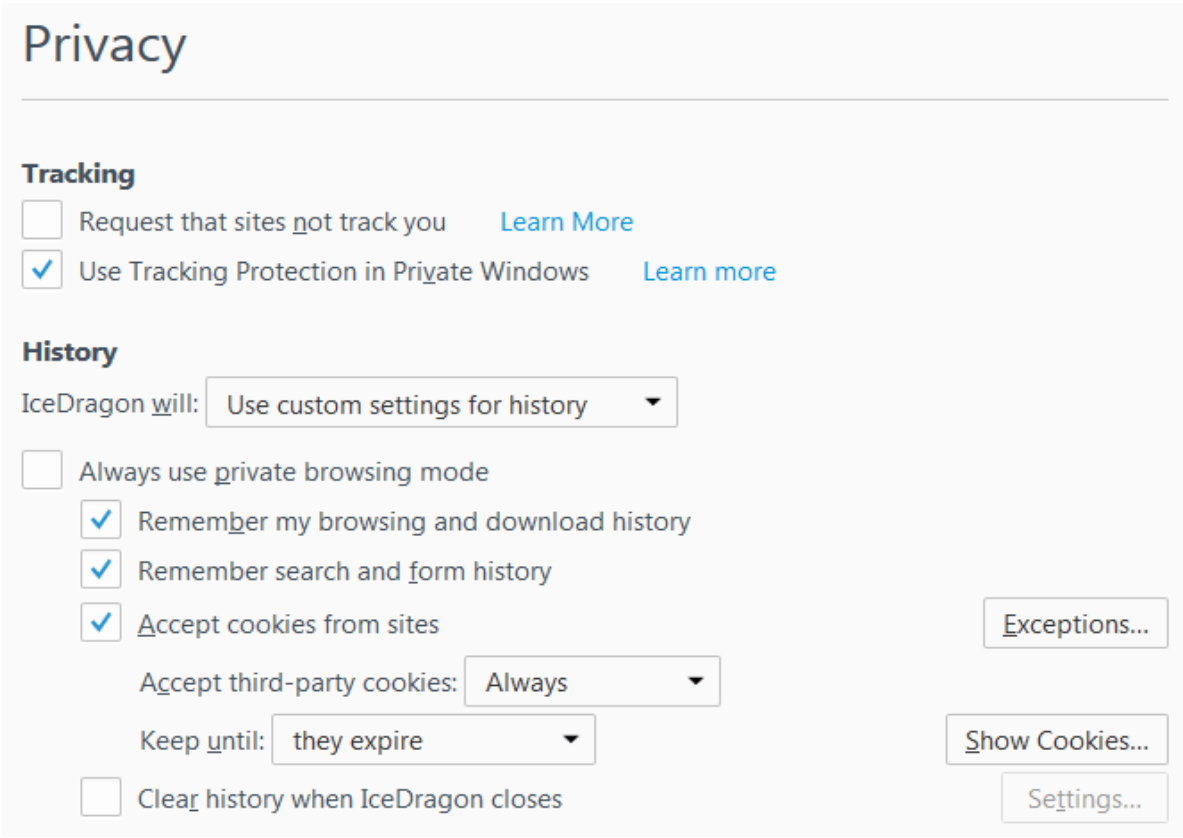
- To view the details of an individual cookie, select the cookie. The details are displayed at the lower pane
- To remove an individual cookie, select it and click 'Remove Selected'
- To remove all the cookies stored by an individual website, select the website (the folder icon) and click 'Remove Selected'
- To remove all the cookies at once click 'Remove All'
- Click 'Close'.

Allowing/Block Cookies

You can configure Comodo IceDragon to allow or block cookies from websites in general.

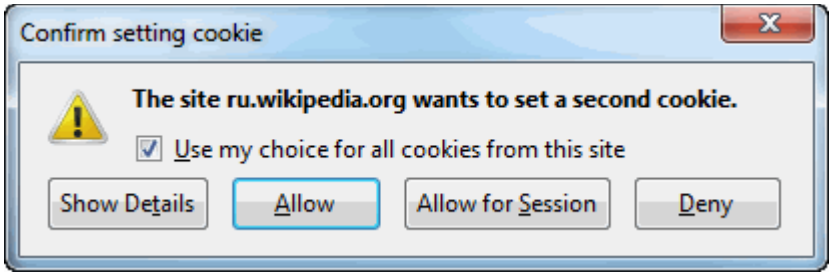
To configure cookies

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Privacy' tab
- Under 'History' for 'IceDragon will:', select 'Use custom settings for history' from the drop-down



To allow cookies from the websites

- Leave the 'Accept cookies from sites' checkbox selected
- If you want to allow third-party cookies, that is the cookies set by other applications or websites through the website you visit, select the Accept third-party cookies checkbox
- Select the time period for the life time of the third-party cookies from 'Keep until' drop-down
  - they expire – Third-party cookies will be stored in your browser till their life time as set by the website
  - I close IceDragon - Third-party cookies will be removed once you end your browsing session
  - ask me every time – You will be prompted every time when a website stores a third-party cookie.



The third-party cookie will be stored based on your choice in the 'Confirm setting cookie' dialog.

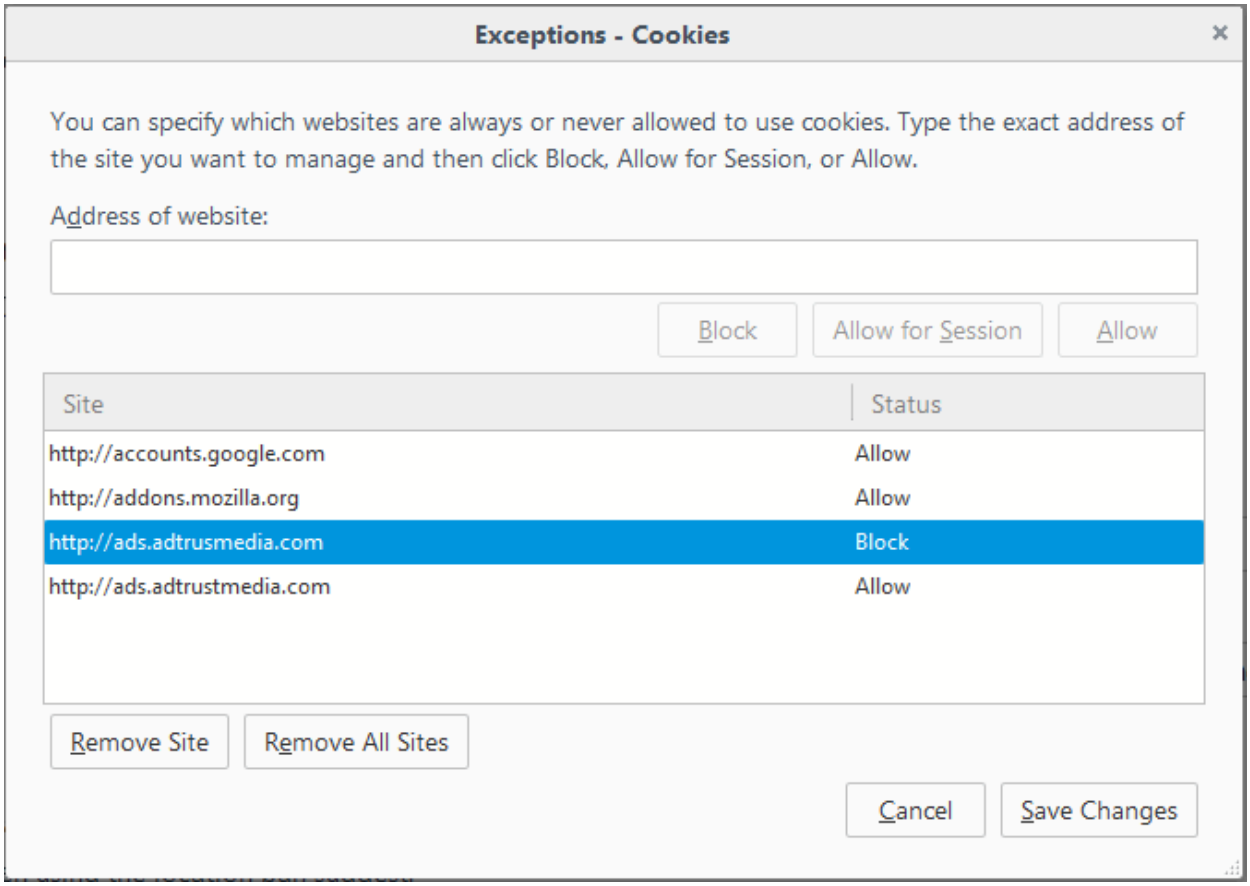
To block cookies from the websites

- Deselect the 'Accept cookies from sites' checkbox
- Click OK in the Options dialog for your settings to take effect

Adding exceptions for storing cookies

- Click the IceDragon menu located at the top right corner of the browser
- Click the 'Options' menu > 'Privacy' tab
- Under 'History' for 'IceDragon will', select 'Use custom settings for history' from the drop-down

- Click 'Exceptions' beside 'Accept cookies from sites' checkbox



The 'Exceptions - Cookies' dialog will be displayed.

- Enter the url of the website for which you want to allow or block cookies permanently
- Click 'Allow' to allow the cookies from the site. Regardless of whether the checkbox 'Accept cookies from sites' is checked or not, the cookies from this site will be allowed.
- Click 'Block' to stop the cookies from the site. Regardless of whether the checkbox 'Accept cookies from sites' is checked or not, the cookies from this site will be blocked

The website will be added to the list with the 'Allow' or 'Block status' as specified

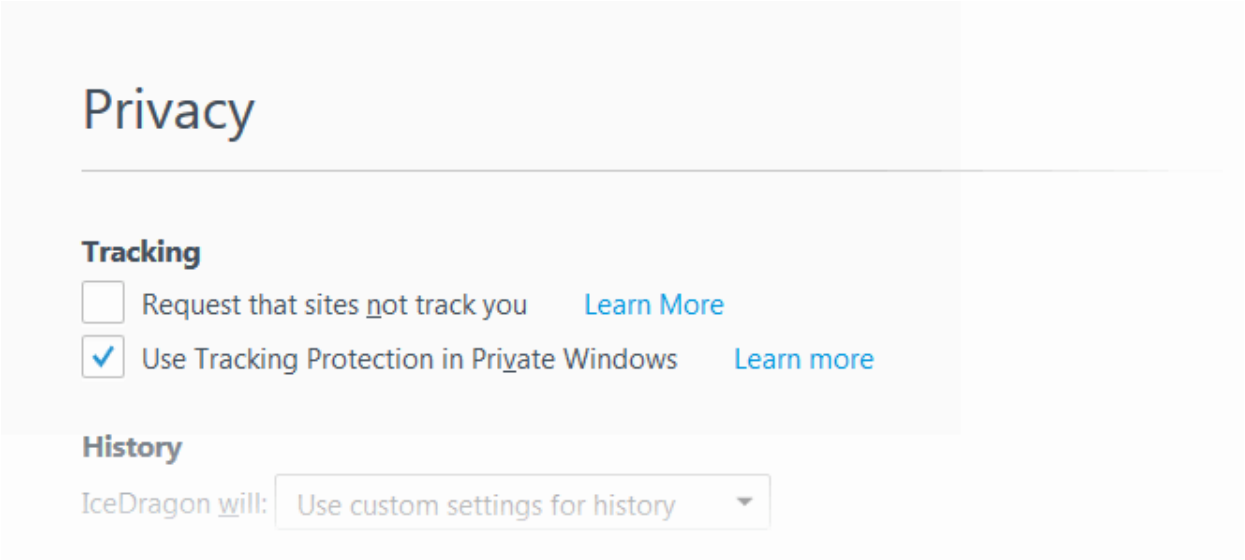
- To remove a website from the exceptions list,
  - Click 'Tools' > 'Options' > 'Privacy'
  - Click 'Exceptions' beside 'Accept cookies from sites'
  - Select the website and click 'Remove Site'
- Click 'Save Changes'

7.5. Blocking Websites from Tracking your Browsing Activities

Some websites track the browsing activities of their visitors. For example, a web site may track your activity to find your interests and display advertisements accordingly.

You can configure Ice Dragon to block activity tracking by websites:

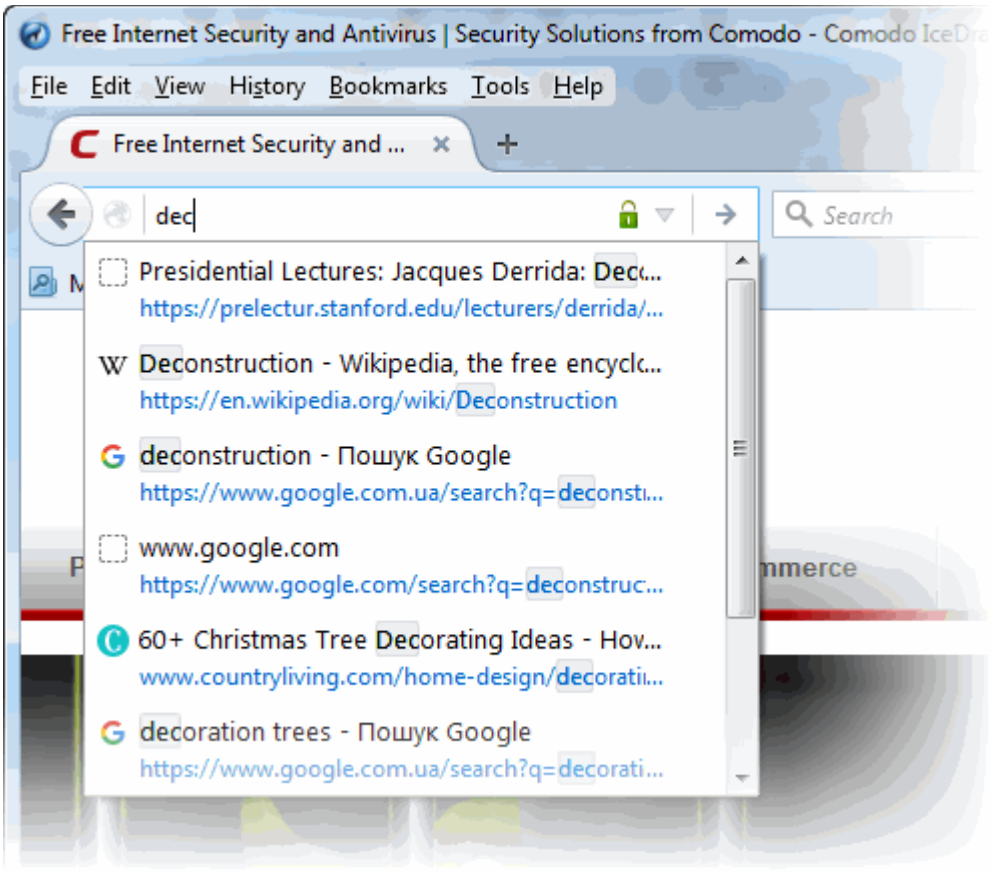
- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Privacy' tab in the 'Options' dialog



- **Request that sites not track you -** Tells websites that you want to be tracked by advertisers and other third-parties.
- **Use Tracking Protection in Private Windows** - Enabled by default, this feature blocks user tracking content when using private browsing.

7.6. Configuring Suggestions while Entering Website Address

Comodo IceDragon uses your browsing history and bookmarks to provide you suggestions when you start typing a website address in the address bar. The browser searches the addresses stored in history and the bookmarks for the letters/words/phrases you type in the address bar and shows the address with matching strings as suggestions in a drop-down, from which you can select the page you want to revisit.



You can configure how the browser should provide suggestions to you.

Click the links below for more help on:

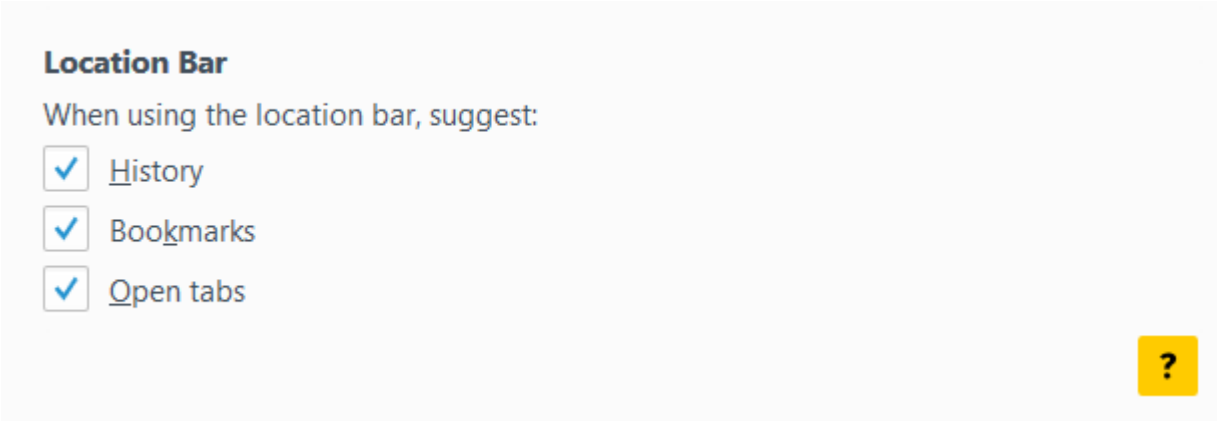
- **Configuring suggestions**
- **Excluding a website from suggestions**
- **Excluding a single webpage from suggestions**

Configuring Suggestions

IceDragon allows you the select the sources from which the suggestions are to be given or to stop suggestions all together.

To configure suggestions

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Privacy' tab



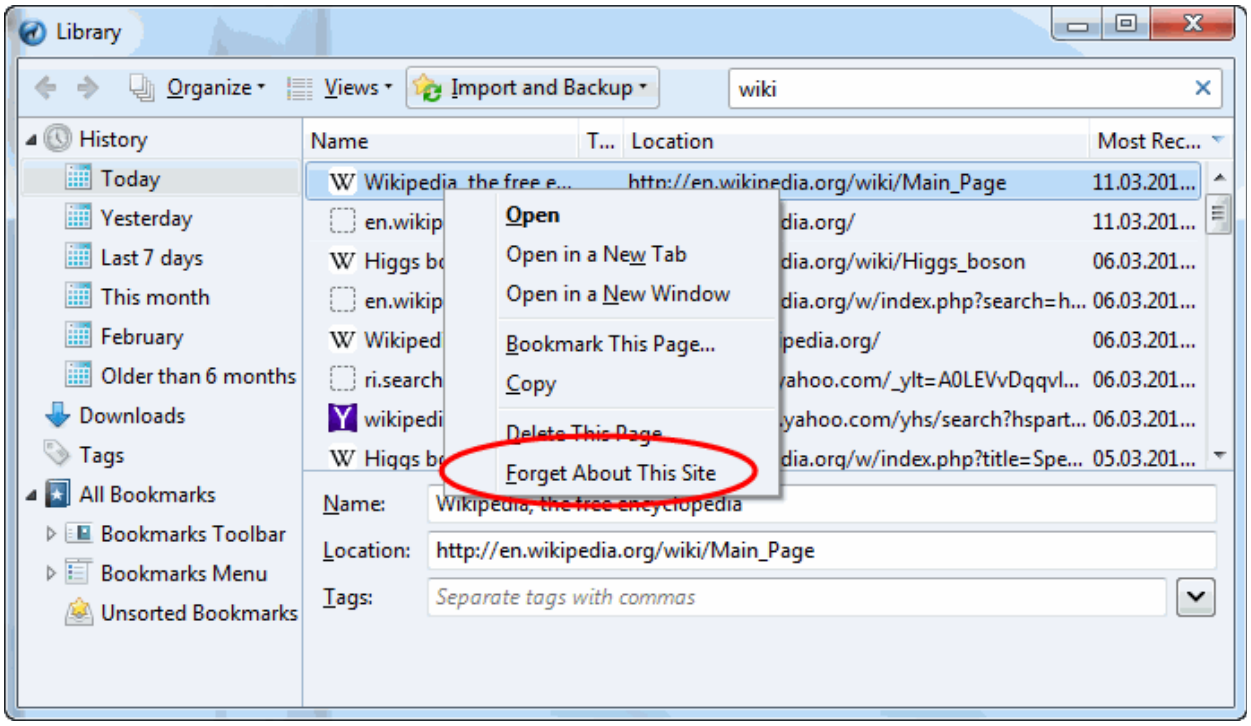
- Under 'Location Bar', select the option for 'When using the location bar, suggest'
  - History - Provides suggested sites from your browsing history only
  - Bookmarks - Provides suggested sites from your bookmarked sites only
  - Open tabs – Provides suggested sites from open tabs only

Excluding a Website from Suggestions

If you want to block suggestions from a specific website which you have visited earlier or from your bookmarks, you can configure Comodo IceDragon accordingly.

To exclude a website from suggested sites

- Click 'History' > 'Show All History or click Bookmarks' > 'Show All Bookmarks'. The 'Library' window will be displayed.
- Type the name of the website in the 'Search History' box and press enter



- Right click on a page of the website you wish to remove and select 'Forget About This Site' from the context sensitive menu.

All the pages from the website from the history, bookmarks and from the suggested sites.

Excluding a Single Webpage from Suggestions

- Type a part of the webpage address in the address bar
- Hover the mouse over the suggestion you want to exclude and press 'Delete' key from the keyboard

7.7. Managing Automatic Installations of Add-ons and Blocking Insecure Add-ons

Add-ons are small pieces of software added to Ice Dragon to expand it's functionality. Add-ons are broadly classified as:

- **Extensions** - Add new features to the browser like auto update of Facebook profiles, analyze your typing skills, comparing prices from different emerchants to name a very few.
- **Appearance** – Customize how the browser should appear by applying themes, button text styles and so on.
- **Plugins** - Support different kinds of file types from Internet, e.g. to open .pdf files, play video and audio files, play online games and so on.
- **Services** - Add social features from various websites right in the Comodo IceDragon browser to keep in touch with your friends.

You can add any number of add-ons to your browser manually as per your needs. Refer to '**Introduction to Add-ons**' for more details.

In addition, some websites install their add-ons to your browser in the background to support the file/data types they render, display their webpages with their themes and so -on. While most of the add-ons from different websites are genuine, some may be harmful, injecting rootkits, keyloggers and other malware to steal your confidential data.

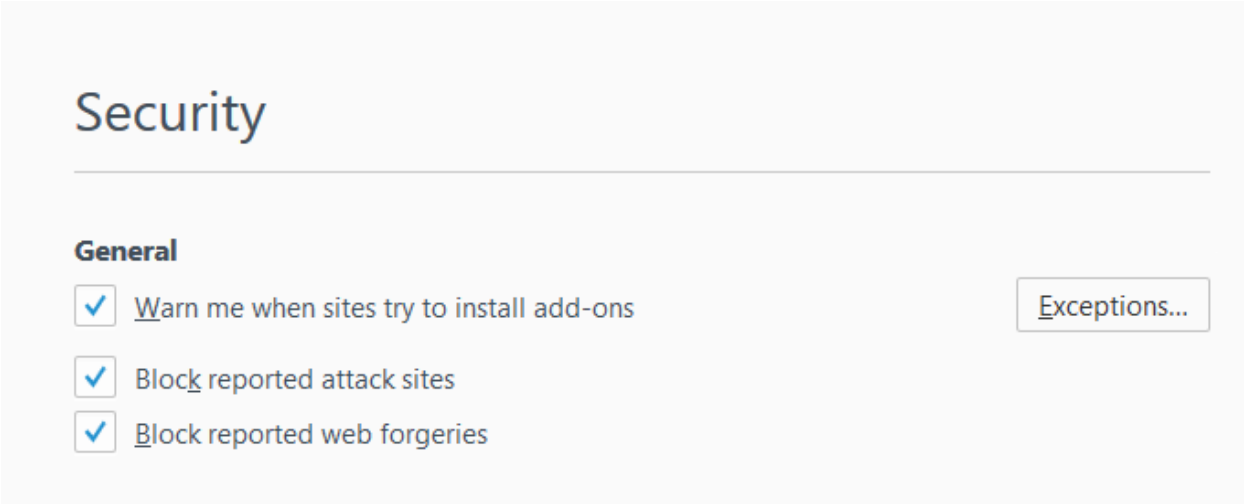
Comodo IceDragon allows you to selectively allow or block automatic installation of add-ons by websites.

Click the links below for more help on:

- **Allowing/blocking automatic installation of Add-ons by websites**
- **Adding exceptions for automatic Add-on installations**

To configure automatic installation of add-ons

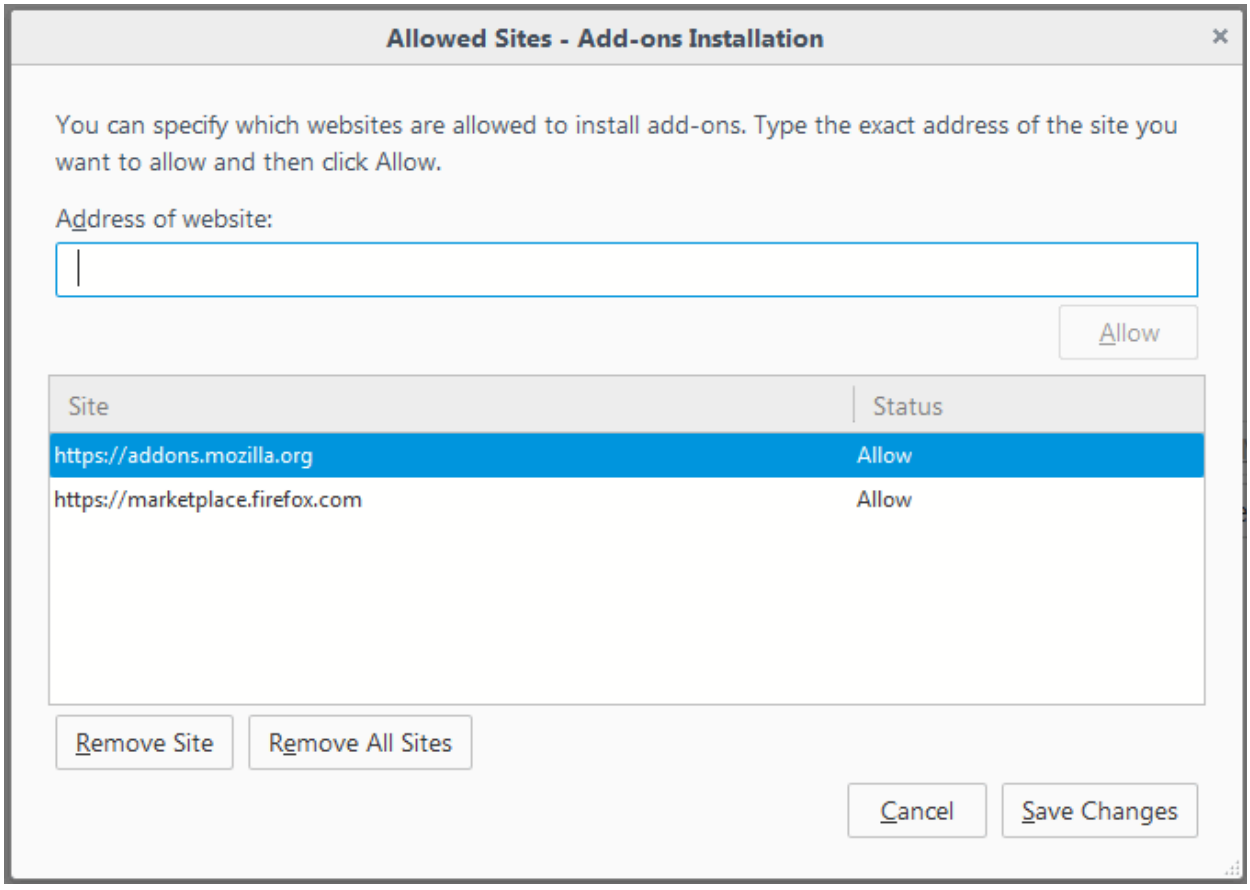
- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Security' tab



- If you want to allow automatic installation of add-ons from websites, de-select **'Warn me when sites try to install add-ons'** checkbox.
- If you want browser to display an alert on automatic installation of add-on, leave the **'Warn me when sites try to install add-ons'** checkbox selected. An alert dialog will be displayed when a website tries to install an add-on. You will be able to decide on whether you allow or block it.
- **'Block reported web forgeries'** - Blocks known phishing sites. An alert will be displayed you if you try to connect to a phishing site.

To add exceptions for automatic installation of Add-ons

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Security' tab in 'Options' dialog
- Click 'Exceptions' beside 'Warn me when sites try to install add-ons' checkbox



The 'Exceptions' dialog will be displayed.

- Enter the url of the website for which you want to allow add-ons permanently
- Click 'Allow'. Regardless of whether the checkbox 'Warn me when sites try to install add-ons' is checked or not, the add-ons from this site will be allowed for automatic background installation.

The website will be added to the list with the 'Allow' status.

- To remove a website from the exceptions list,
  - Click the Comodo IceDragon menu located at the top right corner of the browser
  - Click 'Options' > 'Security'
  - Click 'Exceptions' beside 'Warn me when sites try to install add-ons'
  - Select the website and click 'Remove Site'
  - To remove all the sites from the exception list, click 'Remove All Sites'
- Click 'Save Changes'

7.8. Managing Passwords

Comodo IceDragon can securely remember the usernames and passwords you enter to log-in to websites and automatically enter them the next time you visit. This can be a great time saver but is not recommended for shared computers. This page explains how the 'Remember Password' system works from a user point of view before explaining how you can configure advanced password settings.

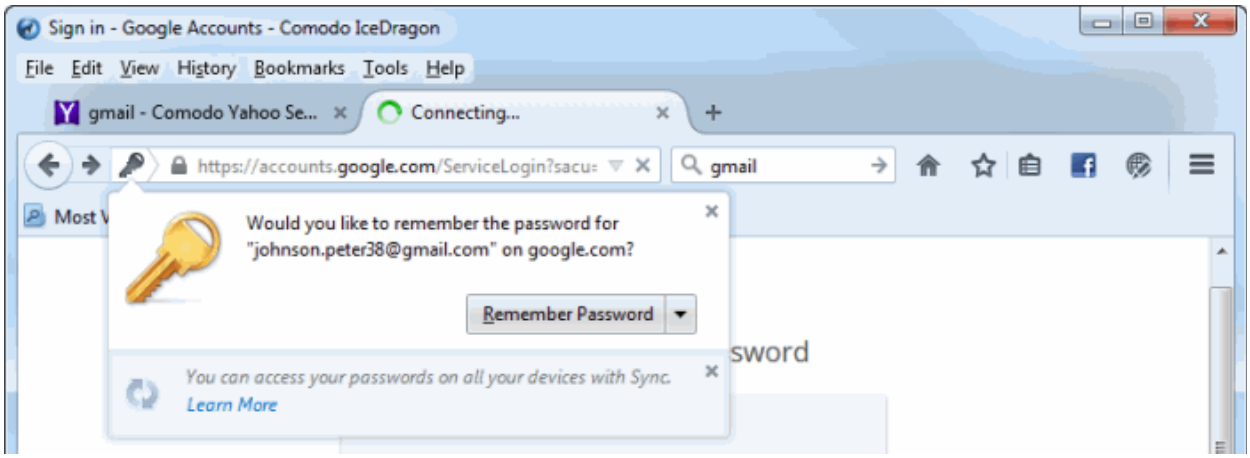
Click the links below for more help:

- **The 'Remember Password' prompt**
- **Configuring the 'Remember Password' option**

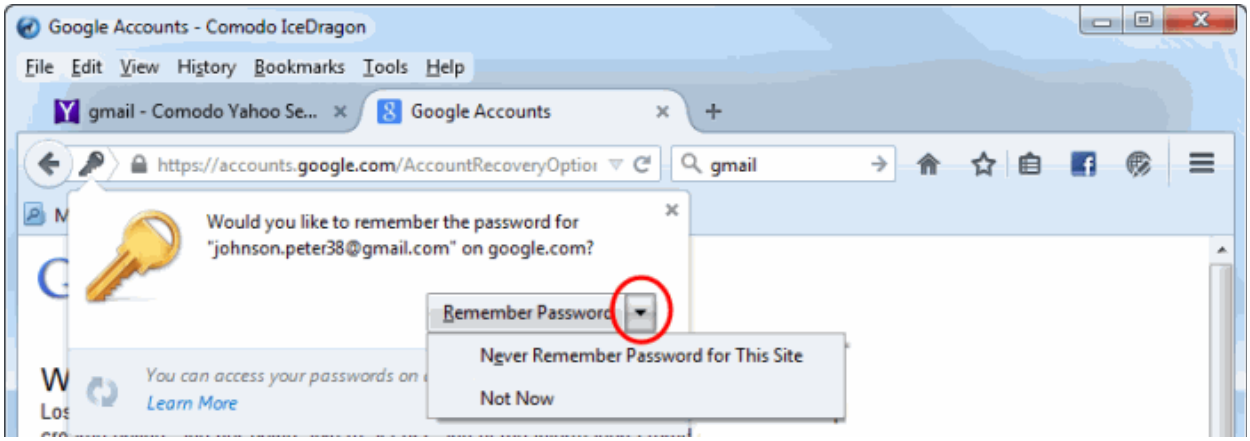
- **Configuring Exceptions**
- **Viewing and managing stored passwords**
- **Using a master password**

The 'Remember Password' prompt

When you enter your username and password in a log-in form, IceDragon will offer to remember your password.



- For the browser to save your password, click 'Remember Password'
- For additional options click the drop-down arrow beside 'Remember Password'



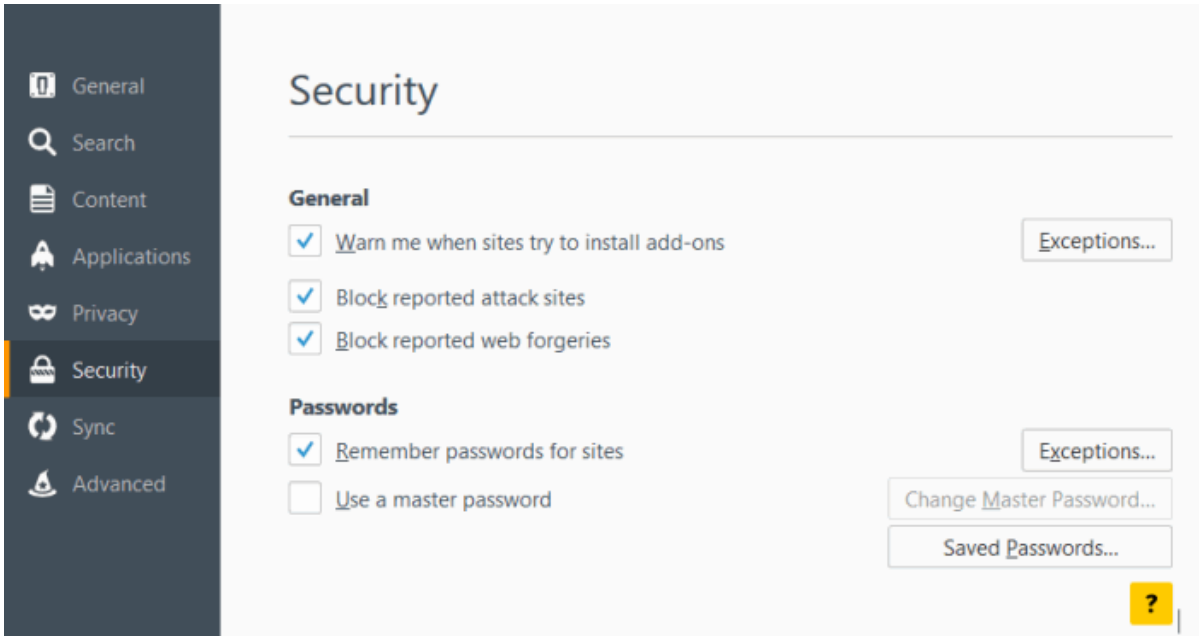
Click the option for remembering password for this site

- **Never Remember Password for This site** – Select this option if you do not want to save the password for this site. The website will be added to Exclusions list. The password you entered will not be saved. Also from next time you access the same site, the prompt for remembering your password for this site will not appear.
- **Not Now** – Select this option if you want the browser to save the password for the website at a later time. The password you enter this time will not be saved. But when you enter your password for the same website for the next time, the prompt for remembering password will appear.

Configuring 'Remember Password' option

- Click the Comodo IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' button

- If you deselect the 'Remember passwords for sites' box then IceDragon will no longer offer to remember passwords for sites that you log in to.
- Master Passwords can be used to protect saved website passwords. You will be asked to enter this password once per session when you next come to log-in to one of your websites. After entering the master password once, all subsequent password fields will be auto-completed. This can provide an acceptable compromise between security and the convenience of automatic website log-ins.



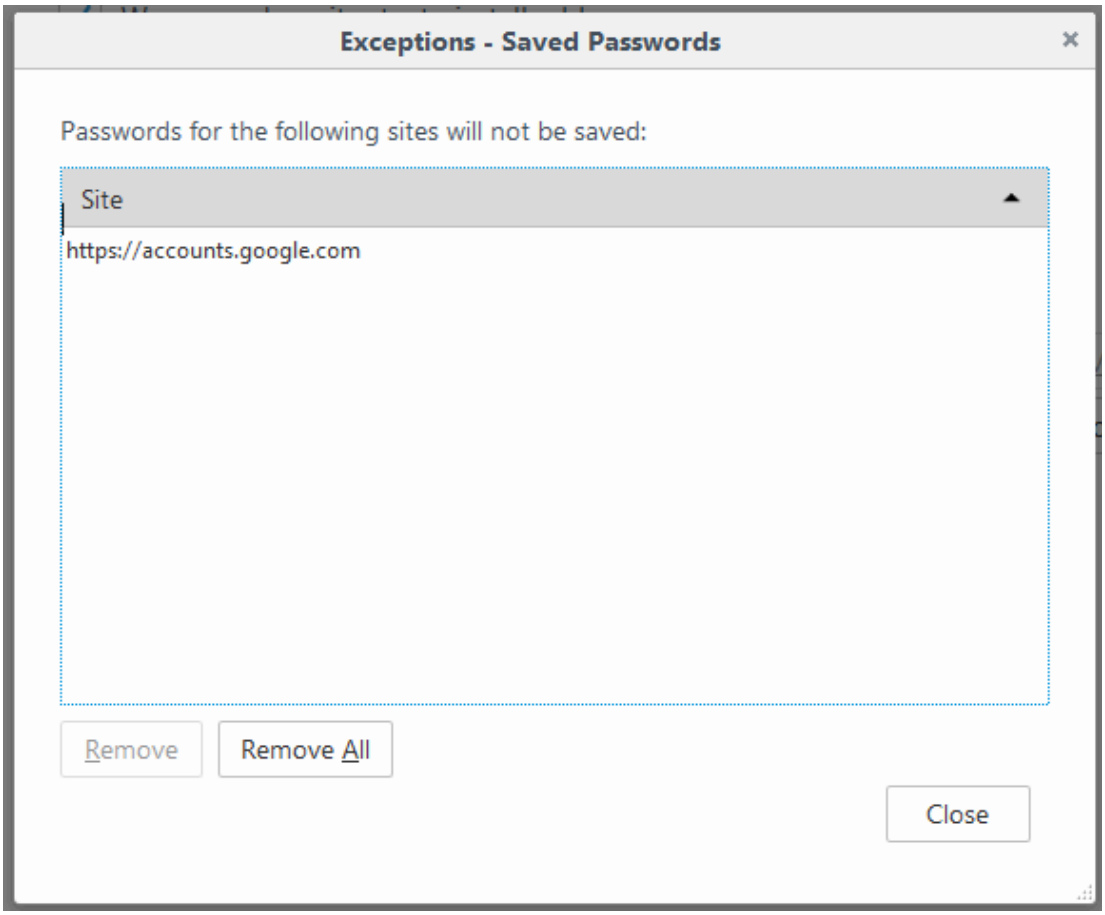
Configuring Exceptions

The websites for which you chose 'Never Remember Password for this site' from the **Remember Password prompt dialog** will be automatically added to exclusions. The passwords for those sites will not be saved, also the Remember Password prompt dialog will not appear during the successive logins to the excluded sites. You can view and remove those sites from exclusions.

To view exception sites

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' button
- Click 'Exclusions' beside 'Remember Passwords for sites'

The Exceptions dialog will be displayed.

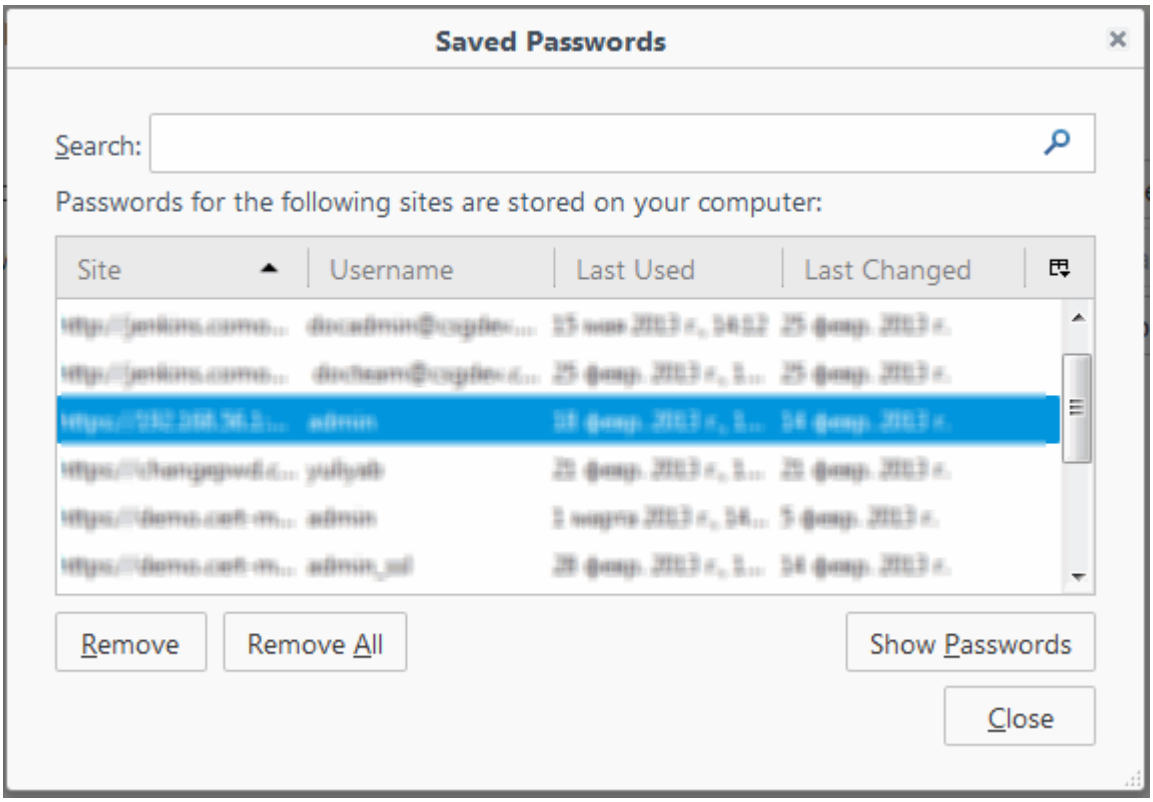


- To remove a site from exceptions, select the site and click 'Remove'.
- To remove all the sites from exceptions, click 'Remove All'.

Viewing and Managing Stored Passwords

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' button
- Click 'Saved Passwords'

The 'Saved Passwords' interface shows list of sites that have stored passwords associated with them. You can search the list for a specific username or website by entering it fully or partially in the search bar.



- You can view or hide the actual passwords saved for the websites.
- To delete a stored password, select the website and click 'Remove'.
- To delete all stored passwords, click 'Remove All'.

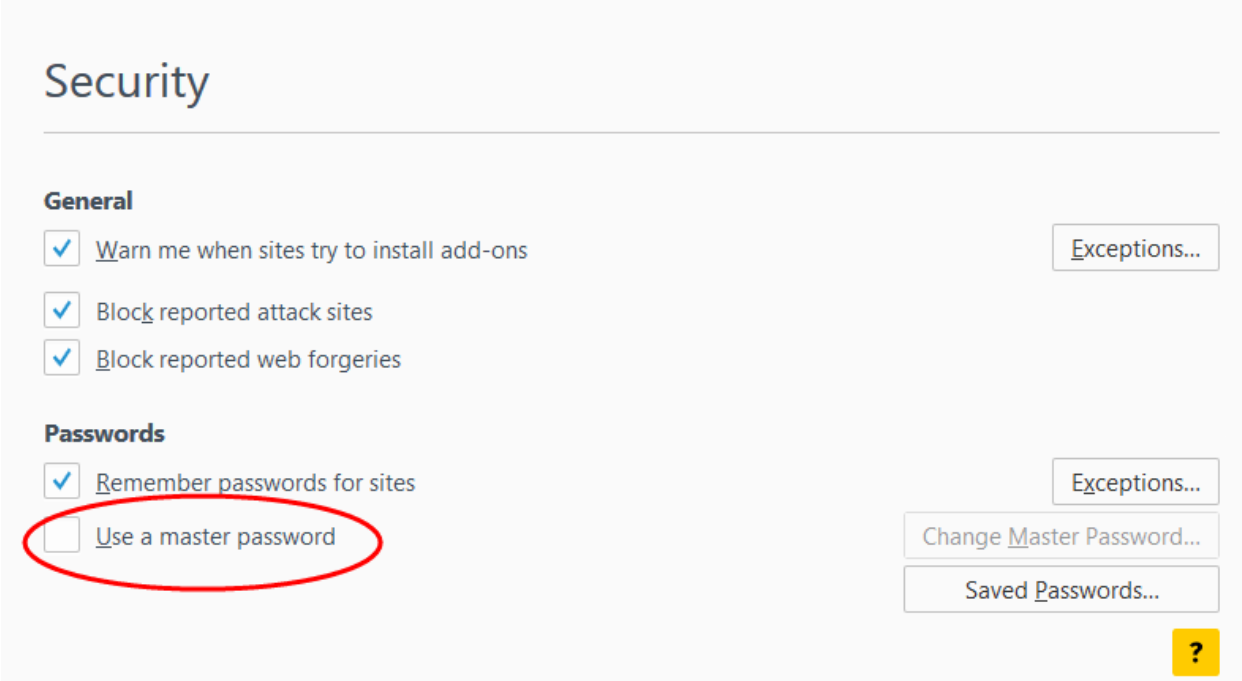
Set a master password

If you have asked IceDragon to remember your usernames and passwords, then they will be automatically entered whenever you visit a particular website. While this is very convenient, it can present a security risk if somebody else sits at your computer, visits the login page of one of your websites and then automatically gains access to your account. The master password feature allows you to overcome this by requiring a password before IceDragon will enter your login data.

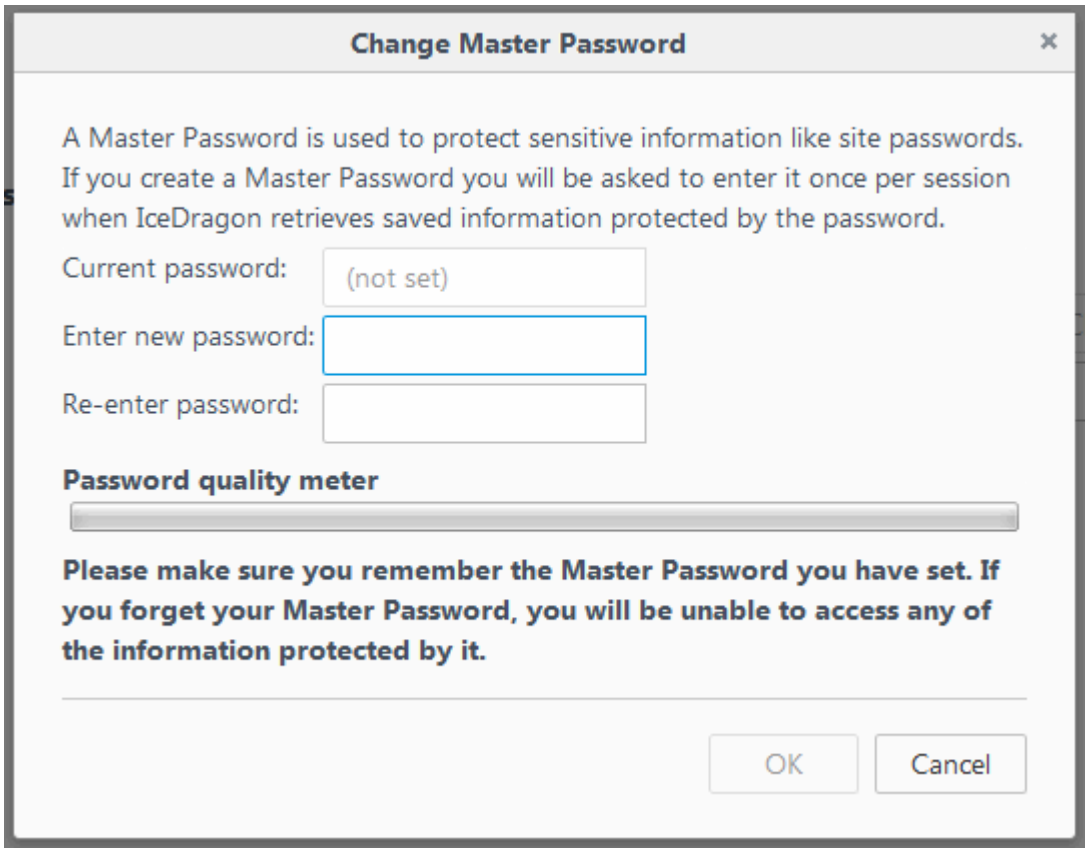
Important: Do not forget your master password. If you do, you will not be able to access your saved passwords.

To specify a master password

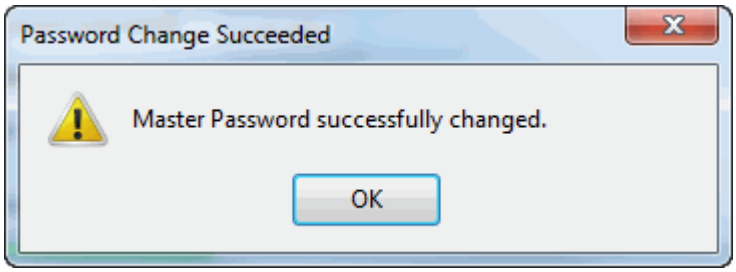
- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' button
- Check 'User a master password' box



The 'Change Master Password' dialog will be displayed.



- Enter a password to authenticate in the 'New password' box and then repeat it. Click 'OK'.

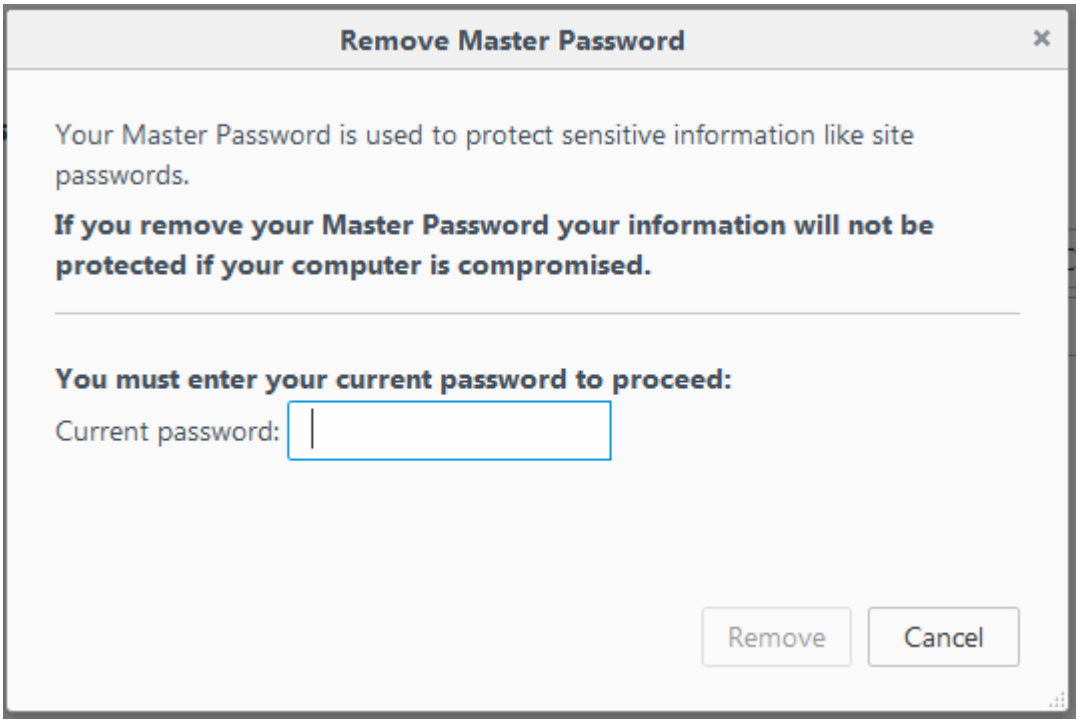


- Click 'OK' for the settings to tale effect.
- You can change your Master password as frequently as you would like to ensure that it remains secret.

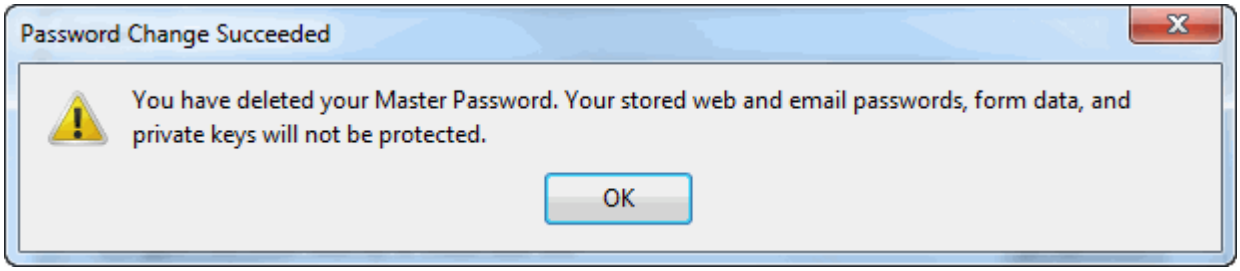
To remove the master password

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' panel
- Uncheck 'User a master password' box

The 'Remove Master Password' dialog will open.



- Click 'Remove'
- Type the current password to confirm you are authorized to remove it.

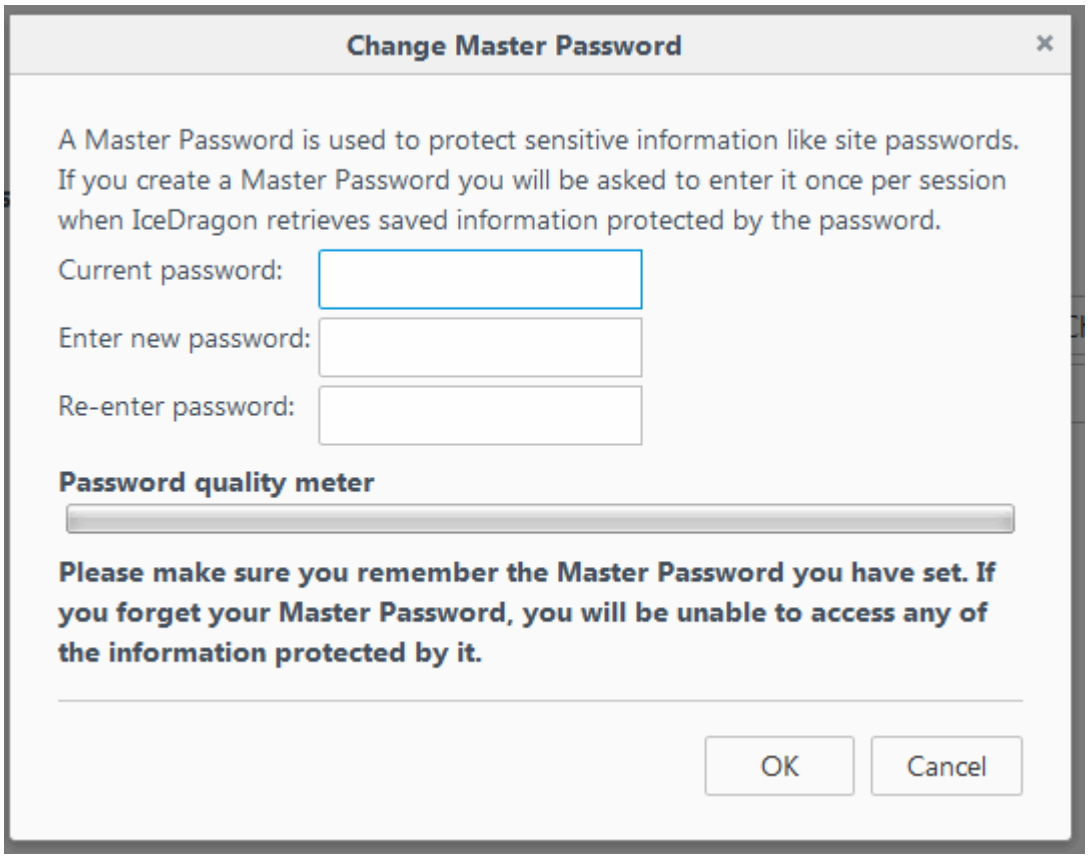


- Click 'OK' ' to confirm a removal.

Change the master password

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > 'Security' panel
- Click 'Change Master Password'

The 'Change Master Password' dialog will open.



- Type your current password, then enter your new password and re-enter it in the 'Re-enter password' field
- Click 'OK' in the confirmation dialog
- Click 'OK' for the settings to rake effect.

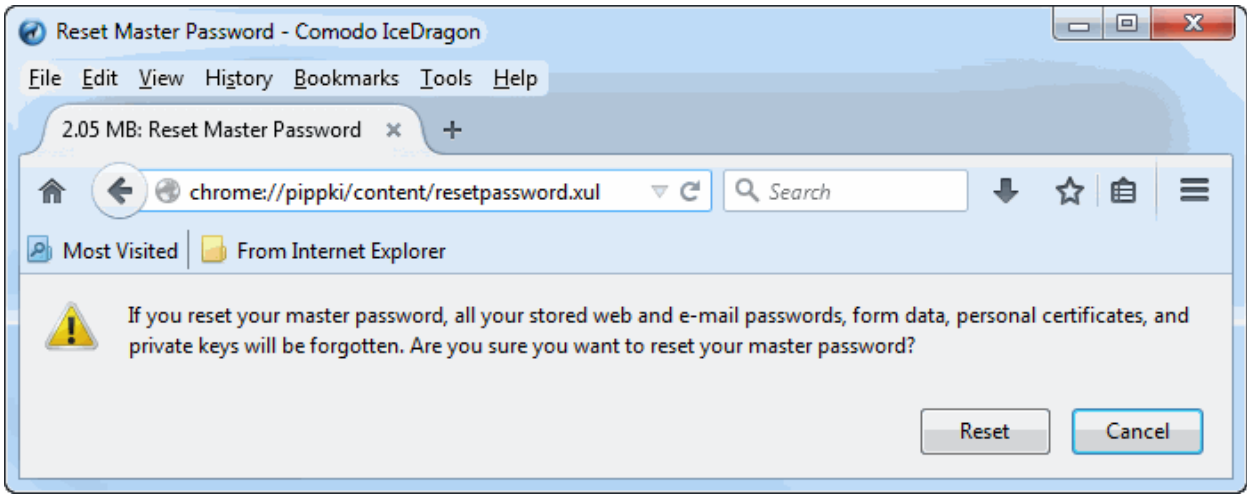
In order to change your forgotten master password, reset it

Warning note: All your saved usernames and passwords will be removed after resetting your master password.

In the Location bar, enter the following,

```
chrome://pippki/content/resetpassword.xul
```

The "Reset Master Password" page will be displayed.



- Click 'Reset'.

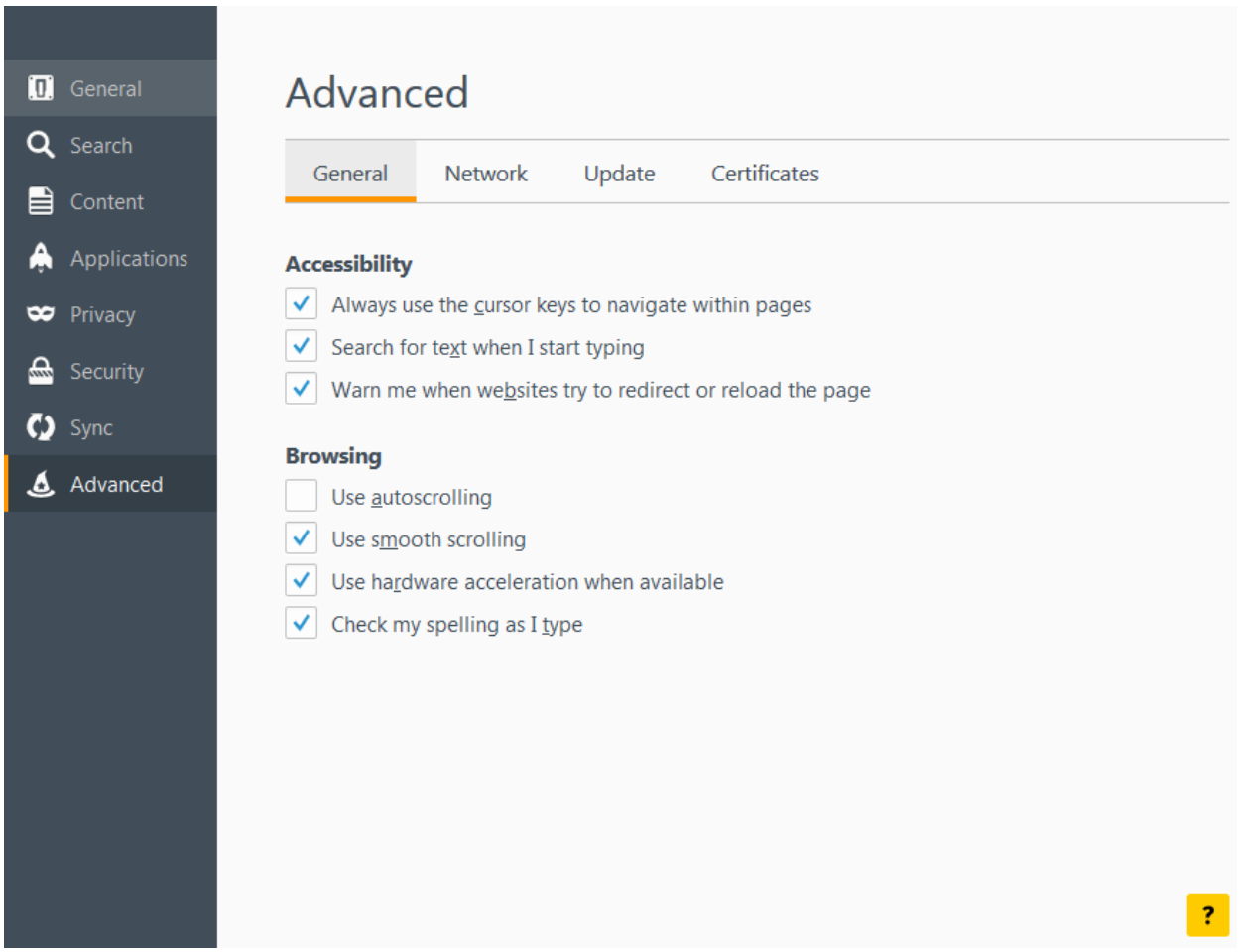
7.9. Configuring Advanced Settings

The 'Advanced Settings' tab enables you to configure granular settings like accessibility options, browsing options, network connection settings, certificates settings, utilities like online spell checker and so on.

To access Advanced Settings interface

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab from 'Options' dialog

The 'Advanced Settings' panel will open.



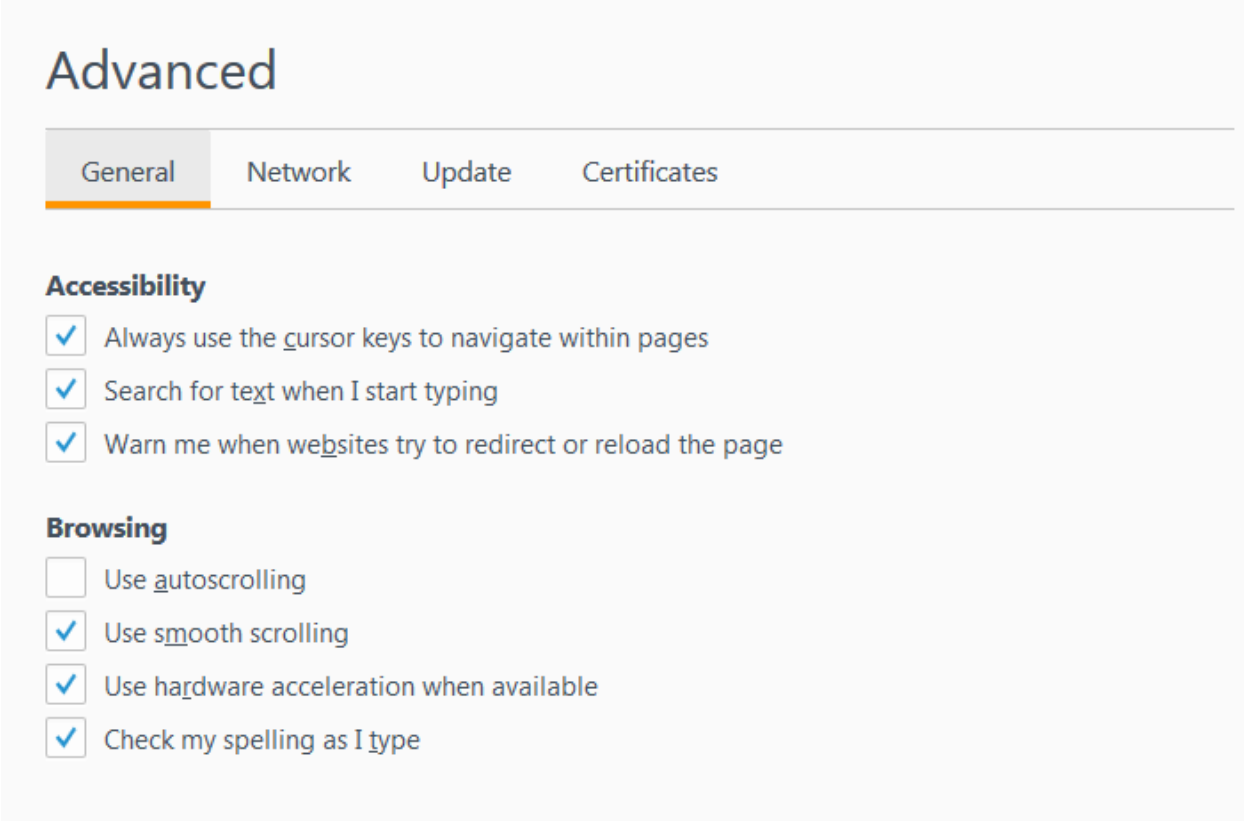
Click the links below for more help:

- **General Settings**
- **Network Settings**
- **Update Settings**
- **Certificates Settings**

General Settings

To access General Settings interface

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'General' tab from 'Advanced' interface.



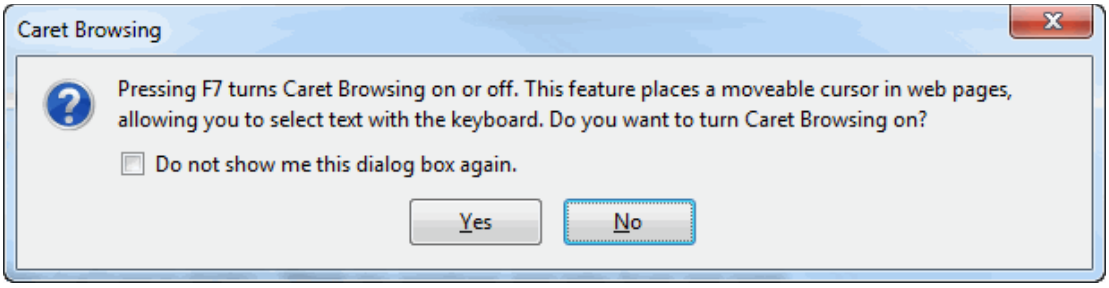
The 'General' tab allows you to configure:

- **Accessibility Options**
- **Browsing Options**
- **System Defaults**

Accessibility Options

- **Always use the cursor keys to navigate within pages** – Enables 'Caret browsing' within the webpage – displays a blinking text selection cursor that can be moved using the arrow keys in your key board. The cursor enables you to select a piece of text from the webpage to your clipboard directly, point to links, move from field from field and so on, using the keyboard.

Alternatively, this option can be enabled by pressing F7 from your keyboard.



- Click 'Yes' to enable caret browsing
- **Search for text when I start typing** - When enabled, the browser displays a 'Quick Find' bar at the bottom of the window when you start typing a search keyword shows the search results within the currently open webpage.

- **Warn me when websites try to re-direct or reload the page** - When enabled, the browser, displays a warning when the page you visit automatically re-directs you to another page or re-loads itself.

Example: This is useful for security against phishing attacks. If you accidentally land into a page fraudulent or phishing website may be, by typing the url with typographic errors, you will be immediately alerted on the moment when the phishing site re-directs you to genuine site after logging your sensitive information like credit card data and password.

Browsing Options

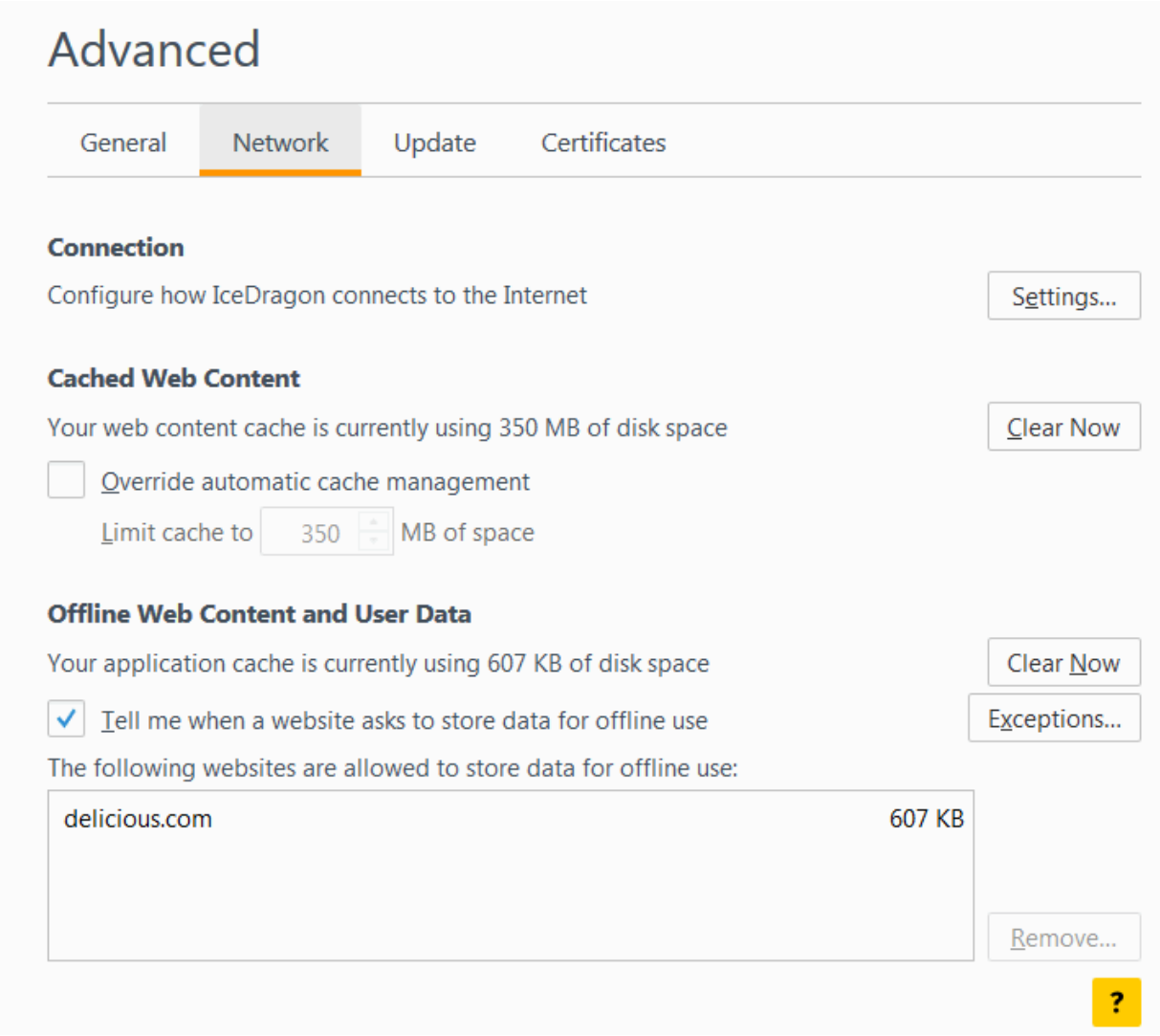
- **Use auto auto-scrolling** – Makes the currently open webpage to scroll automatically when you click the center mouse button or the scroll wheel and move the mouse up or down.

- **Use smooth scrolling** – Makes the page to scroll up or down smoothly when pressing 'Page Up' and 'Page Down' Keys. This option is useful when reading lengthy pages as it makes it easier to resume from where you have left, when scrolling a page up or down.
- **Use hardware acceleration when available** - Instructs the browser to use graphics processor, if present in your system, to display the graphics from webpages, reducing the load to the computer's main processor. This increases the speed at which the webpages are loaded and improves your browsing experience.
- **Check my spelling as I type** – If enabled, the browser will chweck the spelling of every word/phrase you type into various fields of a web-form. This features requires dictionaries to be downloaded. To download a dictionary, while typing inside a field in a web-form, right-click on the field, select 'Languages' from context sensitive menu and select 'Add Dictionaries'. You will be taken the webpage from which you can download required dictionaries.

Network Settings

To access Network Settings interface

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'Network' tab from Advanced Settings interface



The 'Network' tab allows you to configure:

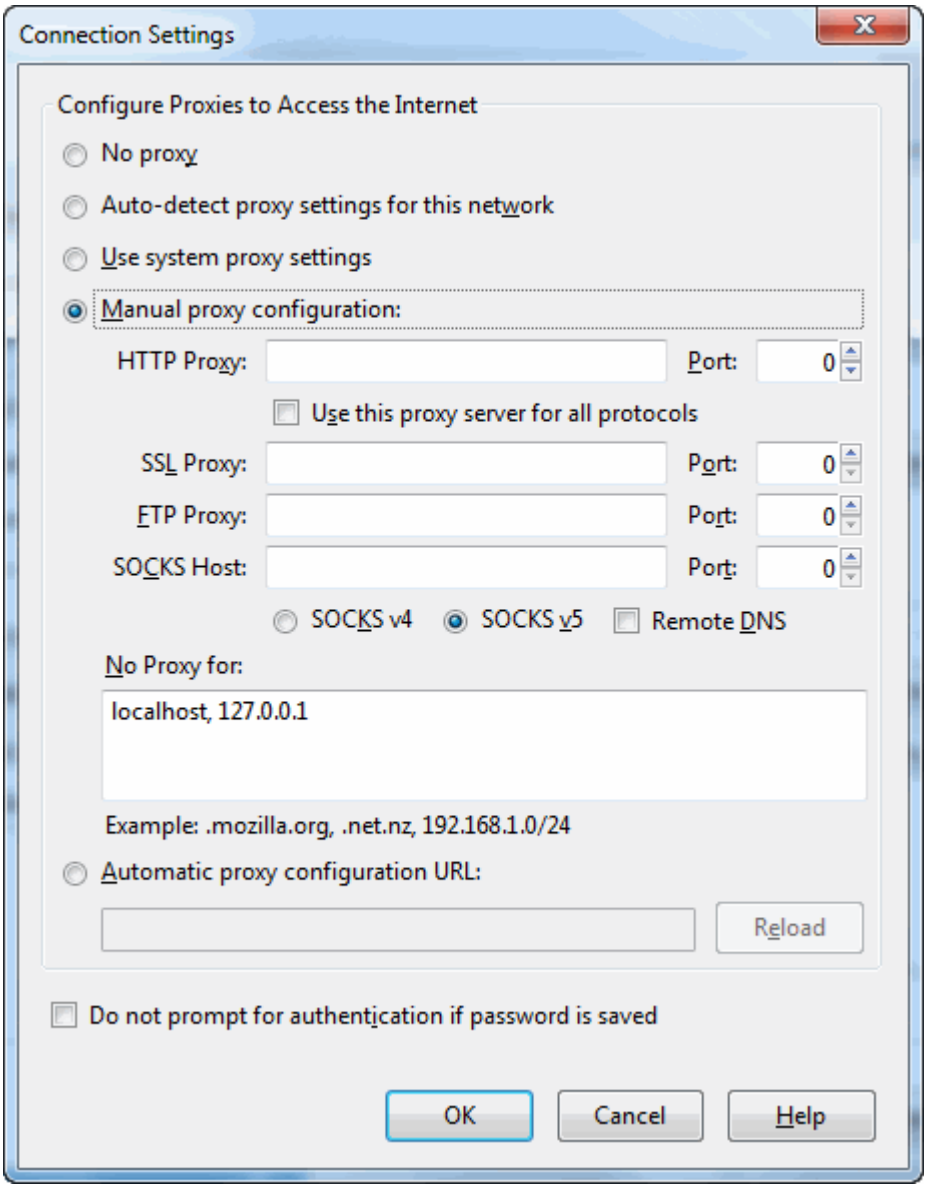
- **Connection Settings**
- **Cached Web Content management**
- **Offline Web Content and User Data management**

Connection Settings

The 'Connection Settings' interface enables you to configure how IceDragon should connect to Internet. If your organization or you Internet Service Provider (ISP) requires you to connect to Internet through a proxy server, you can configure the proxy connection settings from this interface.

To access 'Connection Settings' interface

- Click 'Settings...' under 'Connection' in 'Options' > 'Network' interface



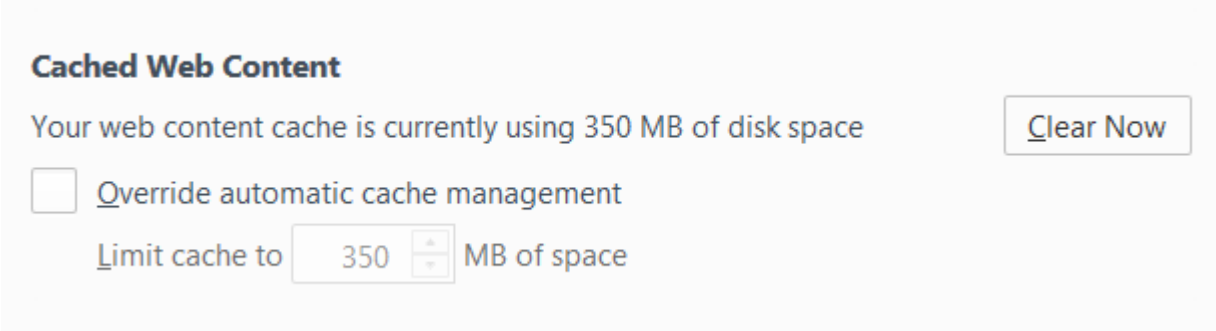
- **No proxy** - Select this option if you are not using any proxy server to connect to Internet
- **Auto-detect proxy settings for this network** - Select this option if you want Comodo IceDragon to automatically detect the proxy settings from your network.
- **Use system proxy settings** - Select this option if you want Comodo IceDragon to use the proxy settings configured for your Operating System (OS). (***Default***)
- **Manual proxy configuration** – Select this option if you want to configure the proxy server settings manually. This is useful if your network uses more than one proxy servers to connect to Internet. Specify the

hostnames and port numbers of the proxy servers to be used for different connection protocols. For hostname and a port number, contact your Network Administrator. If same single proxy server and port number settings are to be applied for all protocols in the list, select 'Use this proxy server for all protocols' checkbox.

  - **No Proxy For** - Specify the hostname or IP Address of servers and websites, which can be connected without using the proxy servers.
- **Automatic proxy configuration URL** – Select this option if you have a proxy configuration file in .pac format stored in your locally or in your network or from Internet. Enter the path or url of the configuration file in the field.
  - **Reload** - Click 'Reload' for the browser to load the configuration file from the url specified.
- Click 'OK' for your settings to take effect.

Cached Web Content Management

Comodo IceDragon stores the webpages you visit in a dedicated cache storage for quicker loading if you visit the same page in future. The default disk space for the cache storage is 50 MB. You can re-configure the disk space allotment for the cache storage through 'Cached Web content' settings. You can also clear the cache if you want.



To change the default disk space for cache storage

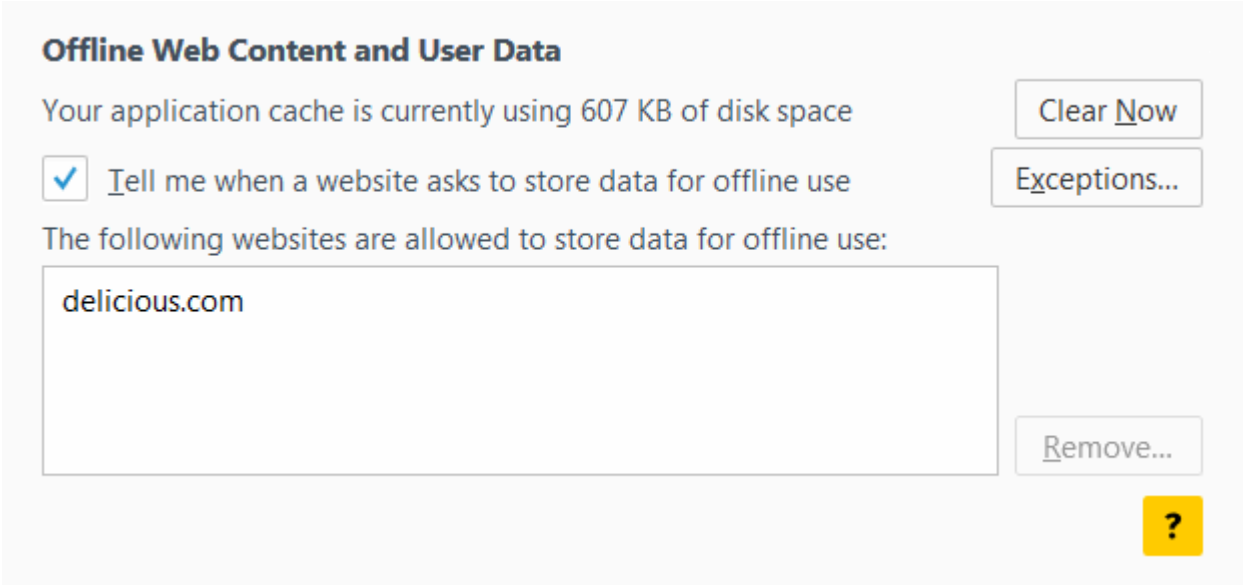
- Select the 'Override automatic cache management' checkbox
- Specify the new disk size (in MB) in the 'Limit cache to' drop-down combo box

To instantly clear the cache

- Click the 'Clear Now' button
- Click OK for your settings to take effect

Offline Web Content and User Data Management

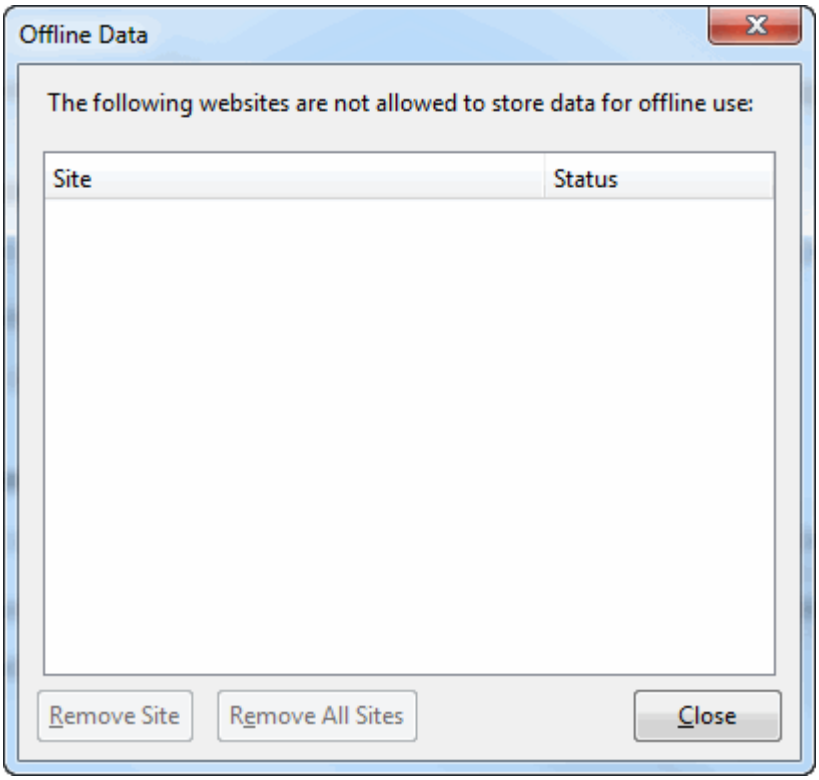
Some websites store user data on your computer for offline use. You can configure the browser to alert you when a site tries to store offline data or choose to allow or block some sites automatically from storing offline data to your computer.



- **Tell me when a website asks to store data for offline use** - Select this option if you want the browser to alert you when a website tries to store offline data.

To manage exceptions

- Click 'Exceptions'
  - The sites which were blocked from storing offline data during previous sessions will be displayed.
  - To remove a site from exceptions, select the site and click 'Remove'
  - To remove all the sites from exceptions, click 'Remove All'



To manage allowed sites

The text field below 'The following websites have stored data for offline use' shows a list of sites which were allowed to store offline data during previous browsing sessions

- To remove a site from allowed sites list, select the site and click 'Remove'. All the data stored by the

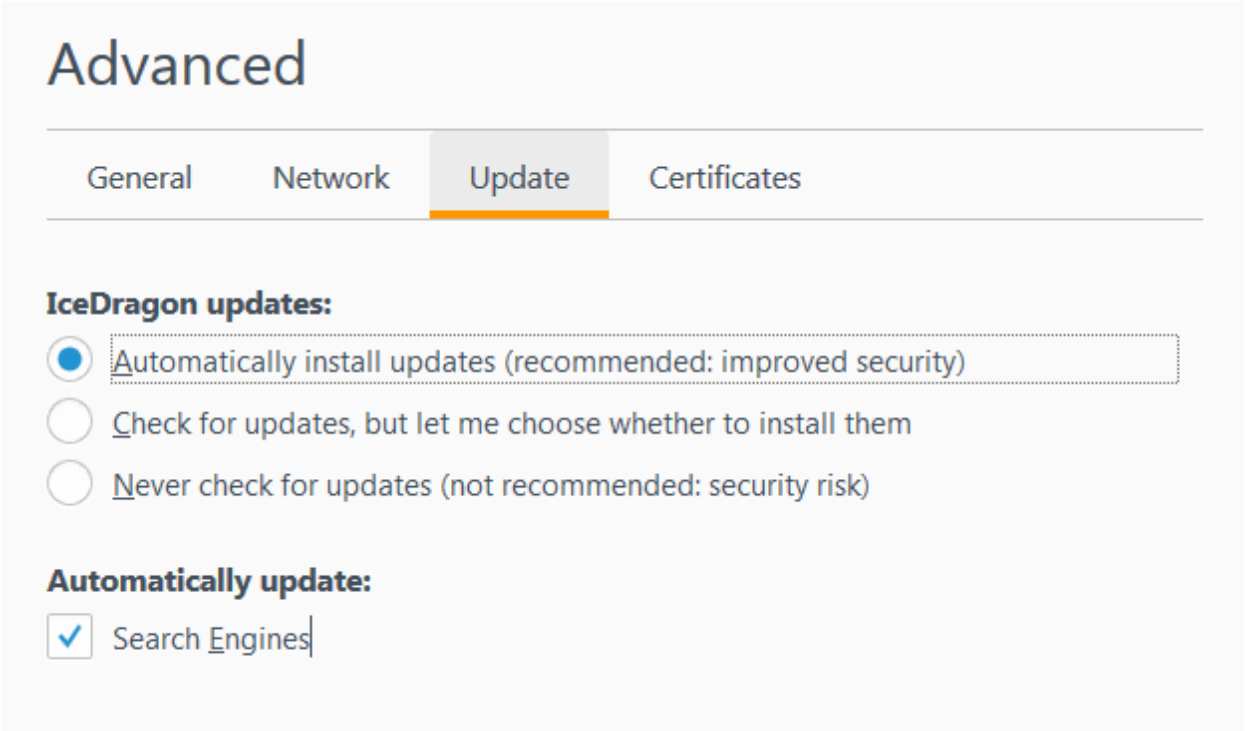
site will also be deleted.

Update Settings

Comodo IceDragon can be configured to automatically check for updates, download and install them.

To configure Update settings automatically

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'Update' tab from 'Advanced' interface



- **Search Engines** - Select this option to instruct the browser to periodically search tupdates for your search engine and install them

To configure Update settings manually

- Click the IceDragon menu at the top right corner
- Click 'Options' > click 'Advanced' tab
- Click 'Update' tab from Advanced Settings interface
  - **Automatically install updates (recommended: improved security)** box automatically downloads and installs updates.
  - **Check for updates, but let me choose whether to install them:** Allows you to choose a moment when to download and install updates. You can download them at a later time, if you do not choose to do that.
  - **Never check for updates (not recommended: security risk):** IceDragon won't check for updates. Note: Selecting this setting will disable you from receiving critical security updates that may keep you safe online unless you frequently do a manual check for updates.

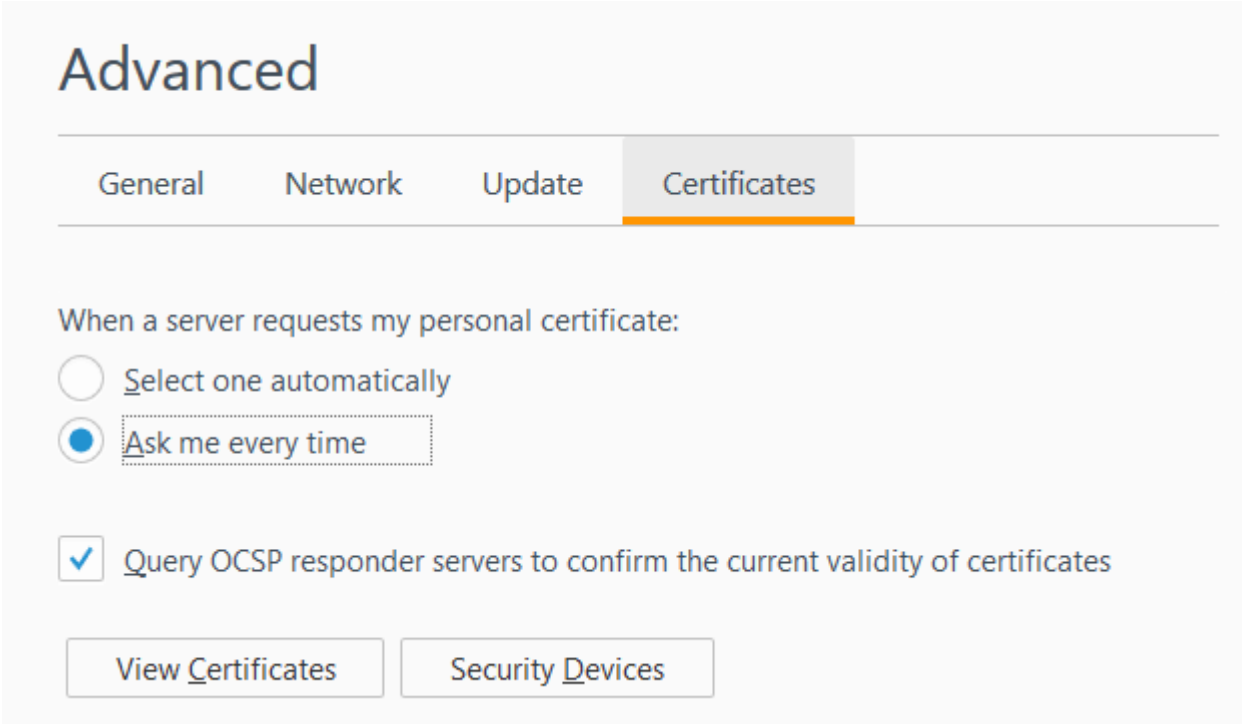
Certificates Settings

Comodo IceDragon is a secure browser that allows encryption of data in transit between it and the website. You can

configure the encryption settings for IceDragon under the 'Encryption' tab.

To access the Encryption Settings interface

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'Certificates' tab from Advanced Settings interface



SSL certificates are used to encrypt the connection between a browser and a website whenever sensitive data is being passed between the two. You may have noticed the address bar turns green and a padlock symbol appears whenever you make a purchase online. This green address bar/padlock indicates that confidential information such as credit card details are securely encrypted and cannot be intercepted en-route by a thief.

For more details on SSL certificates, refer to **SSL Certificate Encryption**.

You can configure how Comodo IceDragon should use these certificates for encrypted browsing sessions.

Personal certificates, Client Certificates or Email Certificates are SSL certificates that are used to authenticate people. You may use a Client Certificate to digitally sign a document, digitally sign and/or encrypt an email, authenticate yourself to websites and so on. For all these you need your personal certificate installed in your browser. For more details on Client Certificates and to enroll for one, please visit **http://www.comodo.com/e-commerce/email-certificates/email-privacy.php**

If a website requires a personal authentication when you perform a data transaction, your browser produces one from its certificate store.

- If you want IceDragon to select one automatically from its certificate store, choose 'Select one automatically'
- If you want to manually select the certificate yourself when a website asks for a personal certificate, select 'Ask me every time'
- If you do want firewalls block requests that aren't over port 80, leave the checked 'Query OCSP responder servers to confirm the current validity of certificates' box

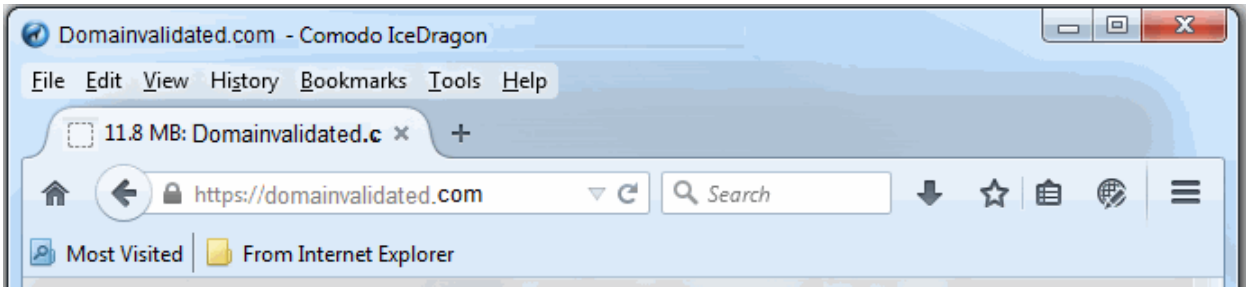
The interface also allows you to view and manage the SSL certificates. For more details refer to **Managing SSL Certificates and HTTPS Security**.

7.10. SSL Certificates and Secure Connections

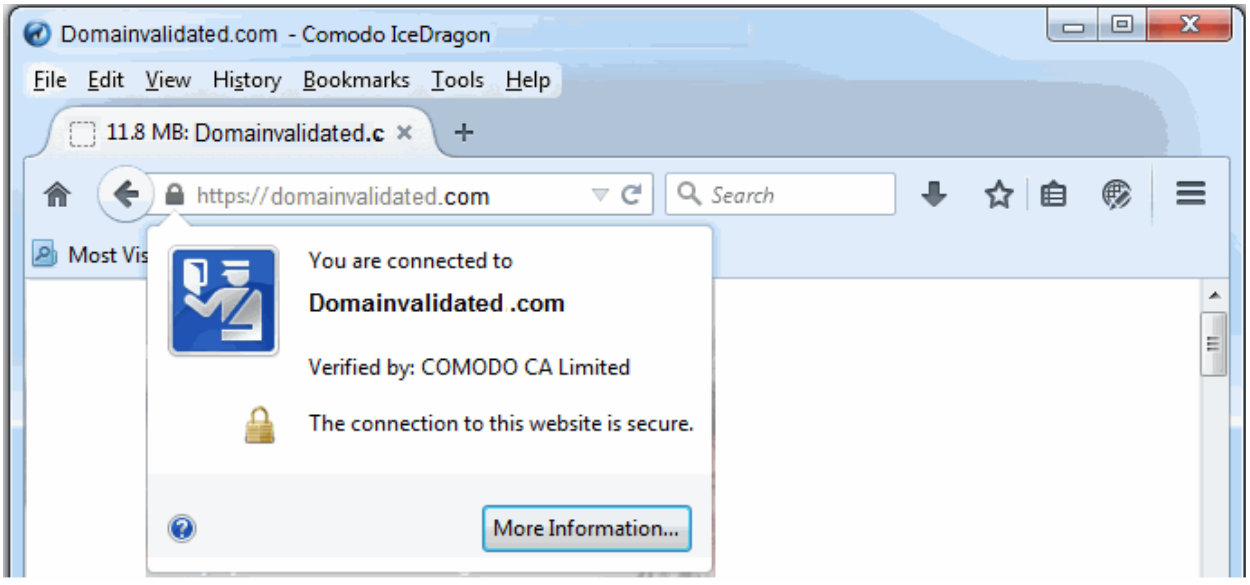
Whenever you successfully make a secure connection to a website, the beginning of the URL will change from HTTP to HTTPS (with the 'S' standing for secure) and a padlock will be displayed to the left of the address. This indicates that the page is using an SSL certificate to encrypt all communications between you and the website. However, not every type of certificate should be trusted to the same degree. Uniquely amongst browsers, Comodo IceDragon distinguishes between all three types of SSL certificate and clearly indicates which type is being used by the website.

There are three main types of certificate – Domain Validated (DV), Organization Validated (OV) and Extended Validation (EV).

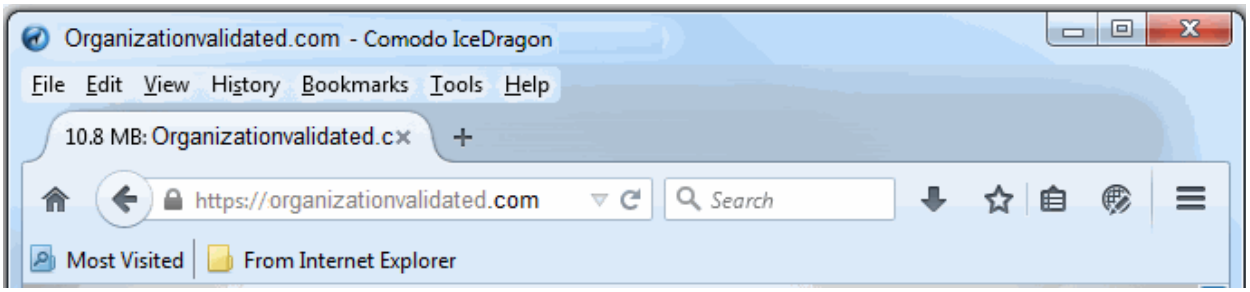
Domain Validated (DV) – These certificates are the lowest cost means of securing a website but do not provide authentication or validation of the business behind the website. Unlike EV and OV certificates, DV certs provide are validated and provisioned automatically via an online interface using a system of 'challenge-response' emails. If the site you are on is using a DV certificate then IceDragon will place a yellow alert symbol over the padlock. This is to inform you that the organization behind the website has not been authenticated so you may want to proceed with caution:



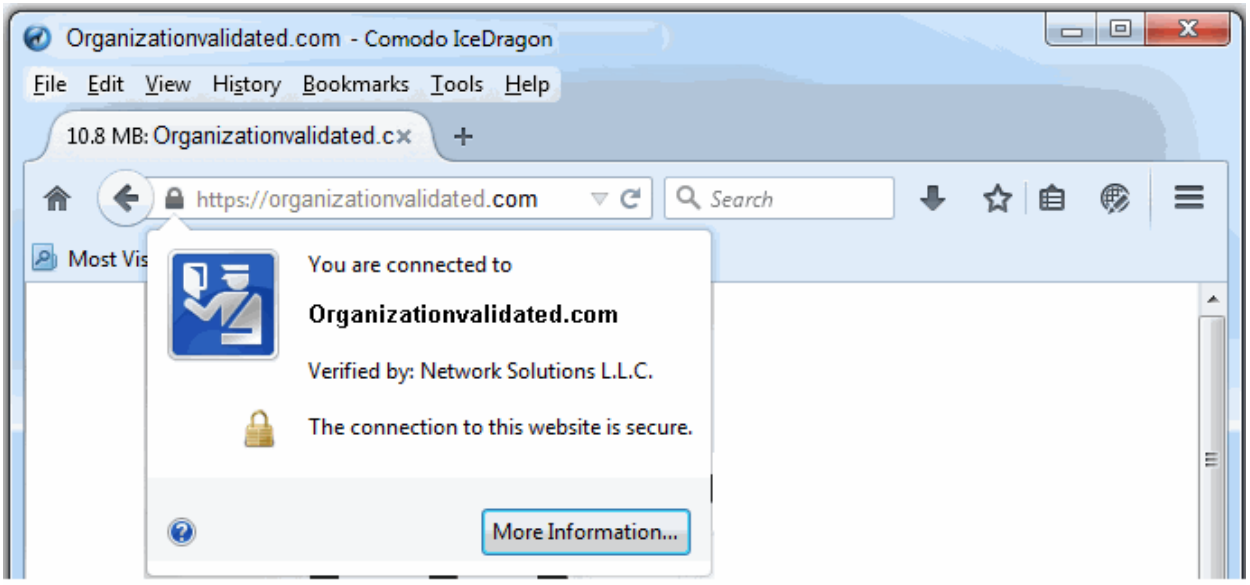
Comodo IceDragon uniquely warns the user if a https connection is only secured using a DV certificate and asks them whether they wish to continue. However, users can check manually by inspecting the certificate details:



Organization Validation (OV) – These certificates include full business and company validation from a certificate authority using currently established and accepted manual vetting processes. Because of this requirement, these certificates provide significantly higher levels of trust and security than DV SSL certificates but are not validated to the stringent standards set by the CA/B forum and do not possess the ability to turn the address bar green in the latest browsers. If the site you on is using an OV certificate then IceDragon will display the prey padlock. This is to inform you that the business behind the website has been validated and it is safe to proceed with any transaction:

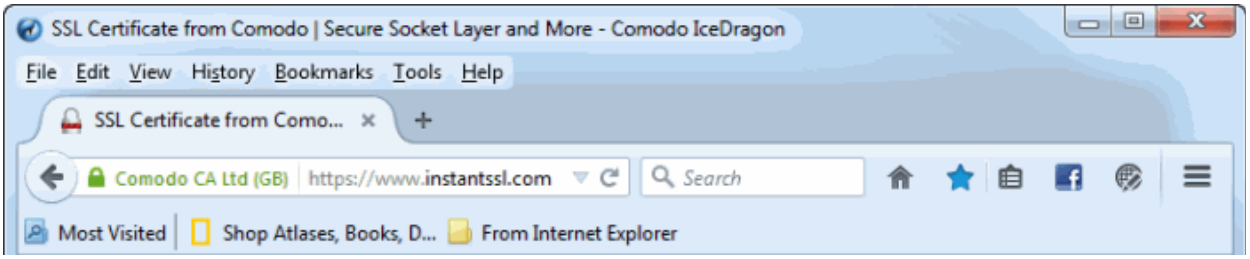


Comodo IceDragon uniquely warns the user if a https connection is only secured using a OV certificate and asks them whether they wish to continue. However, users can check manually by inspecting the certificate details:



One of Comodo IceDragon's additional secure features is it's ability to warn users whenever an 'Extended Validation' (EV) SSL certificate is being used by a website for a https connection.

Extended Validation (EV) - EV certificates are validated to the rigorous guidelines set by the CA/B Forum – an independent standards body that requires in-depth verification of the legality and probity of a company before it is issued with a certificate. Because of this, EV certificates provide the highest levels of security and trust to end-users. To indicate this higher level of trust, Comodo IceDragon turns the entire address bar green if you are on a site which is using an Extended Validation certificate:



Trust between the person using the browser the website they are connected to is only possible when two stages of validation are completed.

1. Verification that the certificate applicant owns the domain name of the website.
2. Verification that the certificate applicant is a legitimate and legally accountable business.

Step 2) is carried out by a Certificate Authority (CA) such as Comodo or Verisign. A CA employs human operatives to

carry out strict vetting of the applicant's business and legal standing. Only once this layer of company validation has been completed can a website be truly 'trusted'.

Comodo IceDragon uniquely warns the user if a https connection is secured using a EV certificate. However, users can check manually by inspecting the certificate details:

Users can enable or disable this feature by clicking Options > Options > Advanced > Encryption tab. **Click here** for more details.

7.11. Website Security Indicators

Comodo IceDragon provides a newer browsers that have security features designed to help you determine if a website you are browsing is a valid and a trusted site. Comodo IceDragon address bar indicates that the connection to a site is encrypted by changing the background color of the location bar and displaying a padlock icon.

Icons on the address bar:

- The Globe icon appears when you visit a site that does not have an SSL certificate. This icon is also shown when the connection is only partially encrypted. For example, the page is showing a mixture of secure content and insecure content (like images) on the page.
- The Lock icon appears when Comodo IceDragon establishes a secure connection with a website that uses an Extended Validation SSL (EV SSL) certificate. The organization's name also appears next to the icon in green text.
- The Lock icon appears when Comodo IceDragon establishes a secure connection with a website that uses an Organization Validation SSL (OV SSL) certificate.
- The Lock icon appears when Comodo IceDragon establishes a secure connection with a website that

uses a Domain Validation SSL (DV SSL) certificate.

Icons in the identity box:

- - This icon appears when you visit a page that does not have an SSL certificate, so the site doesn't provide any identity information. This icon can also appear when the connection is partially encrypted.
- - This icon appears when the site is secured with an OV or DV certificate. The Encryption icon also appears in the identity box.
- - This icon appears when the site is secured with an EV certificate. The Encryption icon also appears in the identity box.

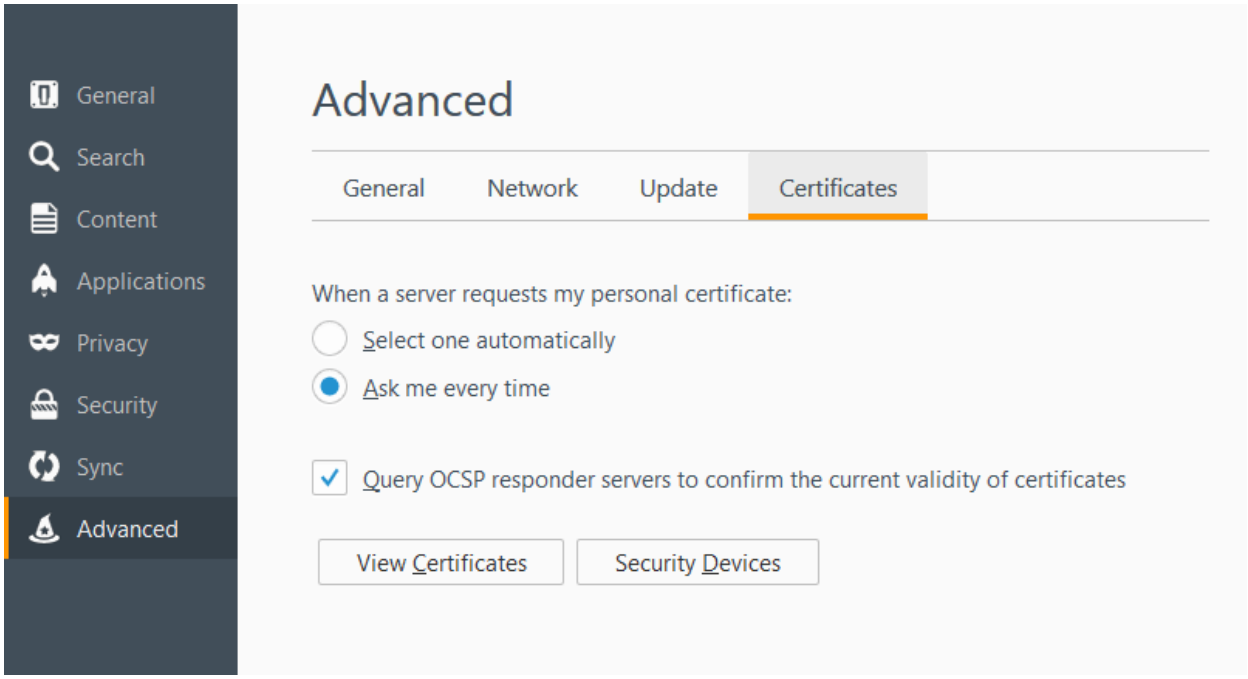
7.12. Managing SSL Certificates and HTTPS Security

- Website SSL certificates create a secure connection between Comodo IceDragon and a web-server in order to encrypt personal and sensitive information that you are submitting to that website. For example, when you make a purchase online, the order form will be secured with a website SSL certificate. You can tell when you are on an encrypted connection because the website address will begin with https:// rather than http:// (with the 's' standing for secure). Other indicators include a padlock in the address bar and, in the case of Extended Validation certificates, the address bar itself will change colour to green. Website SSL certificates also contain authentication information about the website owners, including the company name and physical address. This allows you to verify that the website you are connected to is owned and operated by a legitimate company. For more details on website SSL certificates, please visit **http://www.instantssl.com**
- Personal certificates, client certificates and email certificates are used by individuals to encrypt information and authenticate themselves. For example, you may use a client certificate to digitally sign a Word document or to sign and encrypt an email message. Some websites may request your personal certificate in order to authenticate your identity before they will allow you to login to their secure services. For more details on client certificates and to enroll for one, please visit **http://www.comodo.com/e-commerce/email-certificates/email-privacy.php**

You can view and manage personal and websitecertificates through Comodo IceDragon Certificate Manager.

To manage certificates

- Click the IceDragon button at the top right of the browser
- Click 'Options' > click 'Advanced' tab
- Click 'Certificates' tab from 'Advanced' interface



The Certificates configuration settings enables you to:

- **View and manage the certificates**
- **Configure security modules that store certificates and passwords**

Viewing and Managing Certificates

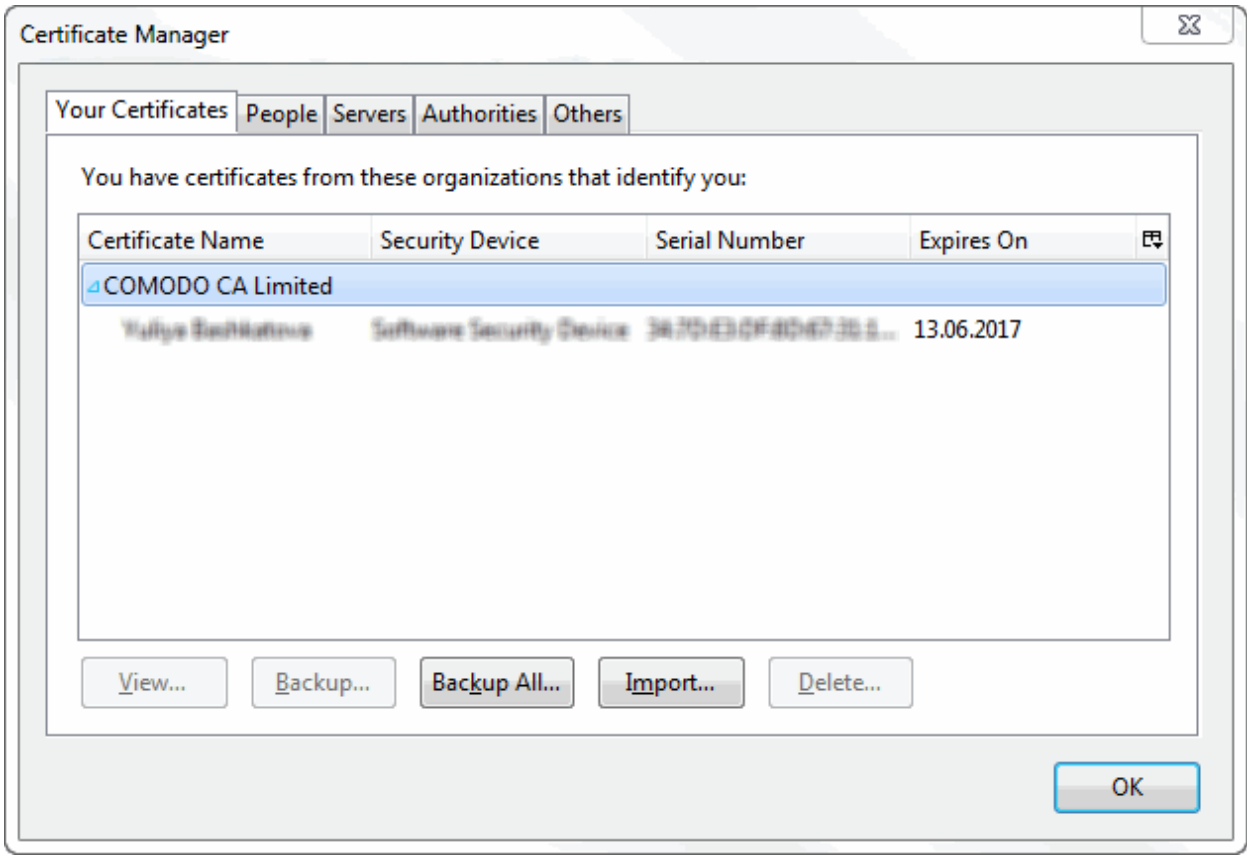
Click 'View Certificates' under Certificates in Options > Advanced> Encryption interface

The 'Certificates Manager' window will be opened. The 'Certificates Manager' has the following tabs:

- **Your Certificates**
- **People**
- **Servers**
- **Authorities**
- **Others**

Your Certificates

The 'Your Certificates' area displays a list of your personal/client/secure-email certificates.



The dialog enables you to:

- **Import your certificate from your local storage to your browser**
- **View the certificate details**
- **Backup your certificate(s)**
- **Delete expired or revoked certificates**

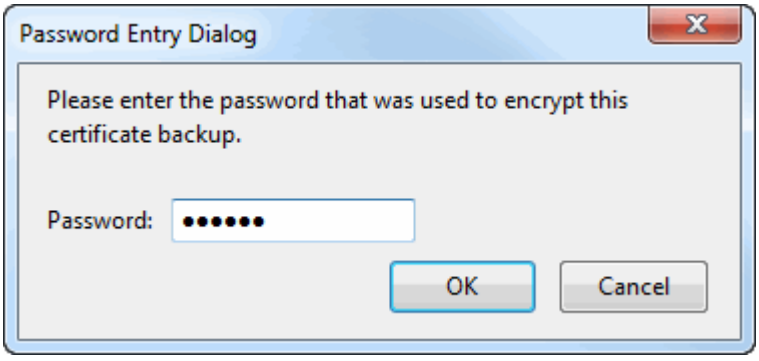
Importing your certificate

You might have stored your personal authentication, client or secure-email certificate downloaded from a Certification Authority (CA) or the one provided by your Network Administrator in your computer. You can import and install the certificate into your browser through the Certificate Manager.

To import your certificate

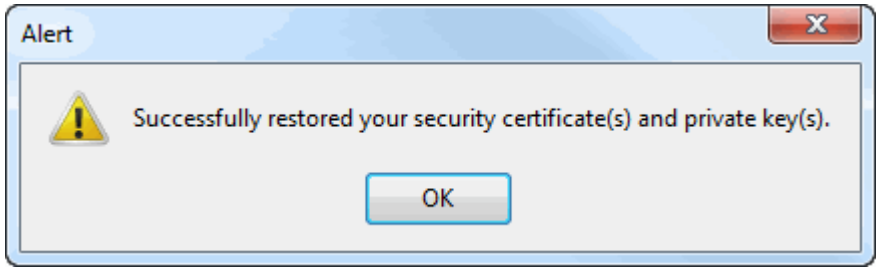
- Click 'Import' from the 'Certificate Manager' > 'Your Certificates' interface
- Browse to the location where you stored your certificate and click 'Open'

You will be prompted for entering the password you entered while storing the certificate in your computer.



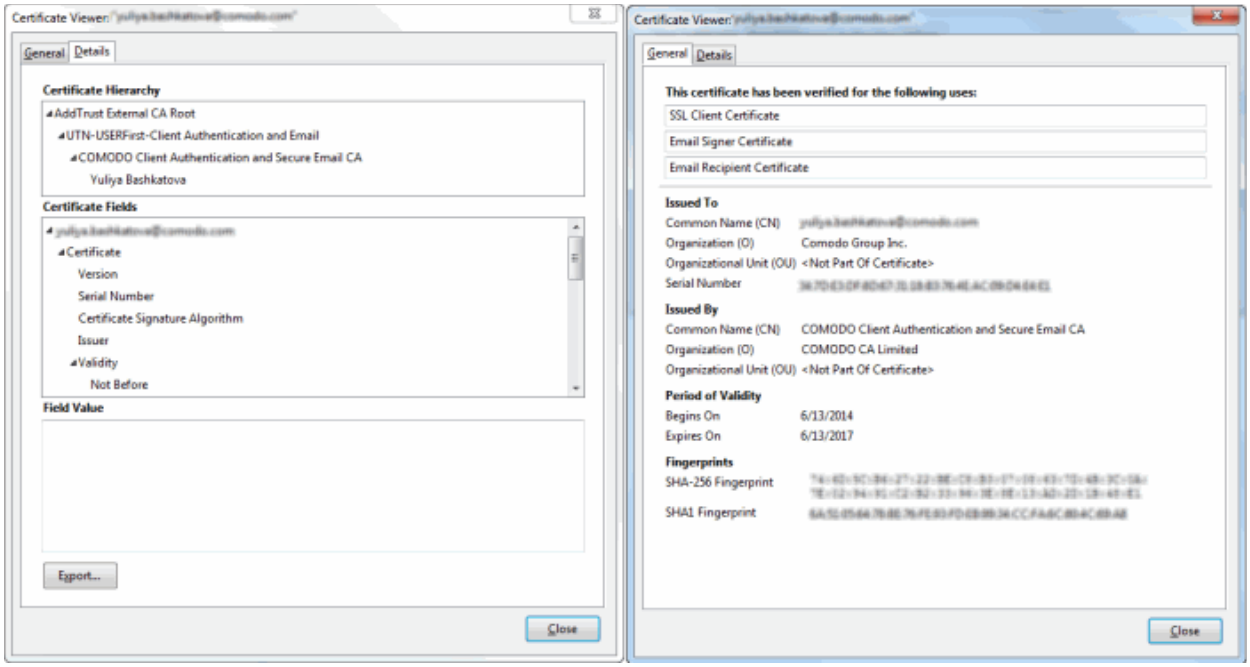
- Enter the password that was used while storing the certificate and click OK

Your certificate will be imported to the certificate store of the browser.



Viewing the Details of the Certificate

To view the certificate, select the certificate and click 'View...'. The general information and detailed information on the certificate will be displayed under respective tabs in 'Certificate Viewer' dialog.



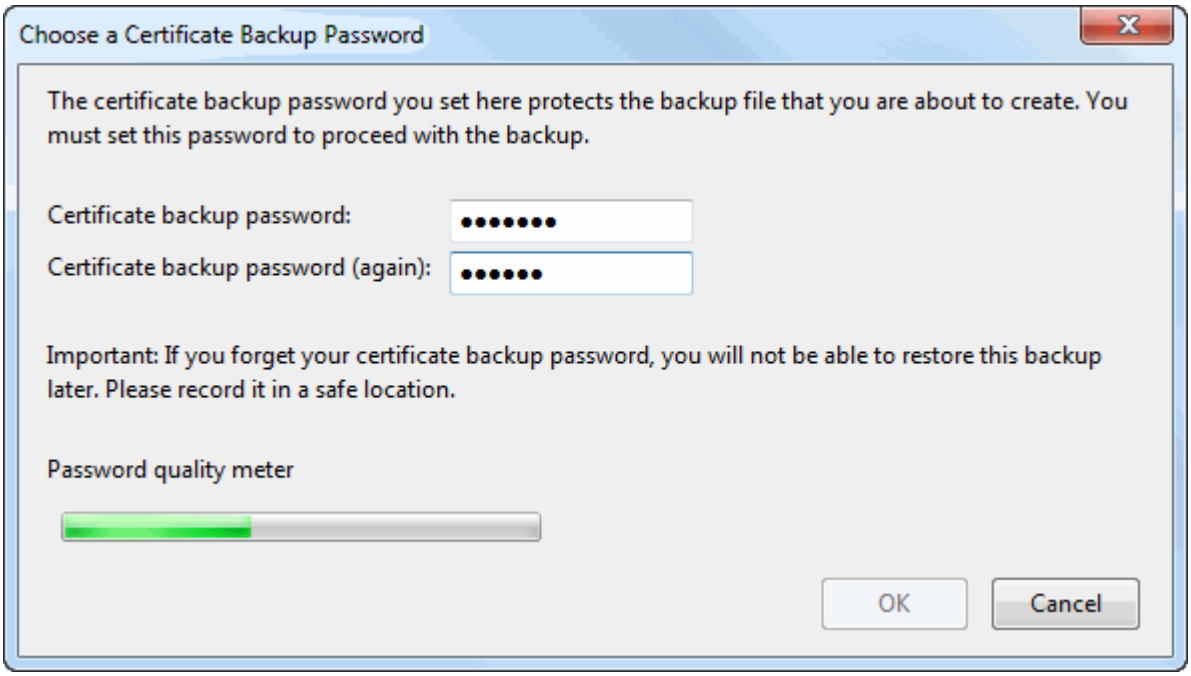
Storing a Backup of a certificate

You can store a backup of your certificate(s) for safe-keeping. The backup enables you to re-install them if you have to uninstall and re-install the browser.

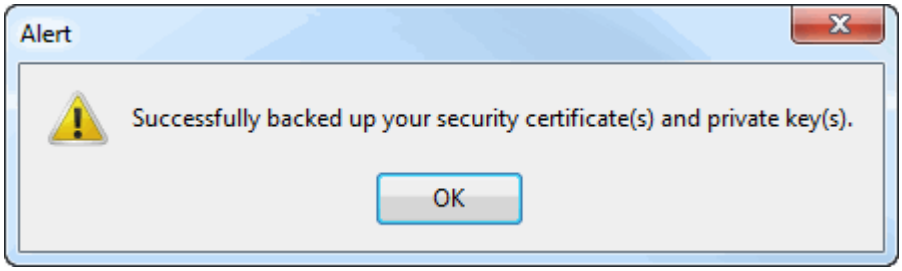
To backup a certificate

- Select the certificate and click 'Backup...'
- Navigate to a safe location in your local computer or your network and enter a file name
- Click 'Save'

You will be prompted to enter a password for the backup. Your certificate will be stored in the backup in an encrypted form with this password. In order to restore your certificate, you need to enter this password.



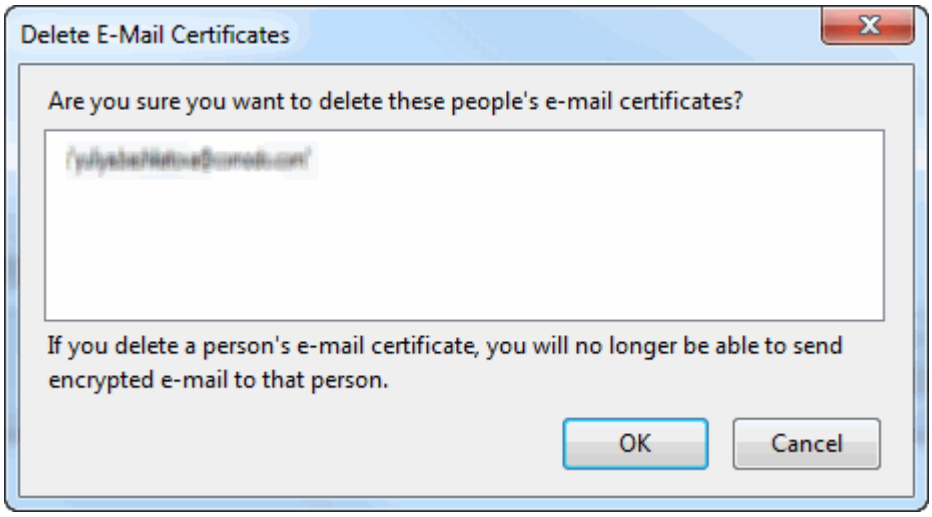
- Type a password and re-enter it for confirmation in respective fields. Choose the password as a mixture of alphanumeric characters, upper and lower case letters and special characters. The password meter displayes the strength of the password you have chosen.
- Click 'OK'



- To backup all you certificates at once, click 'Backup All...' and follow the same procedure.

Deleting a certificate

- Select the certificate to be deleted and click 'Delete'.

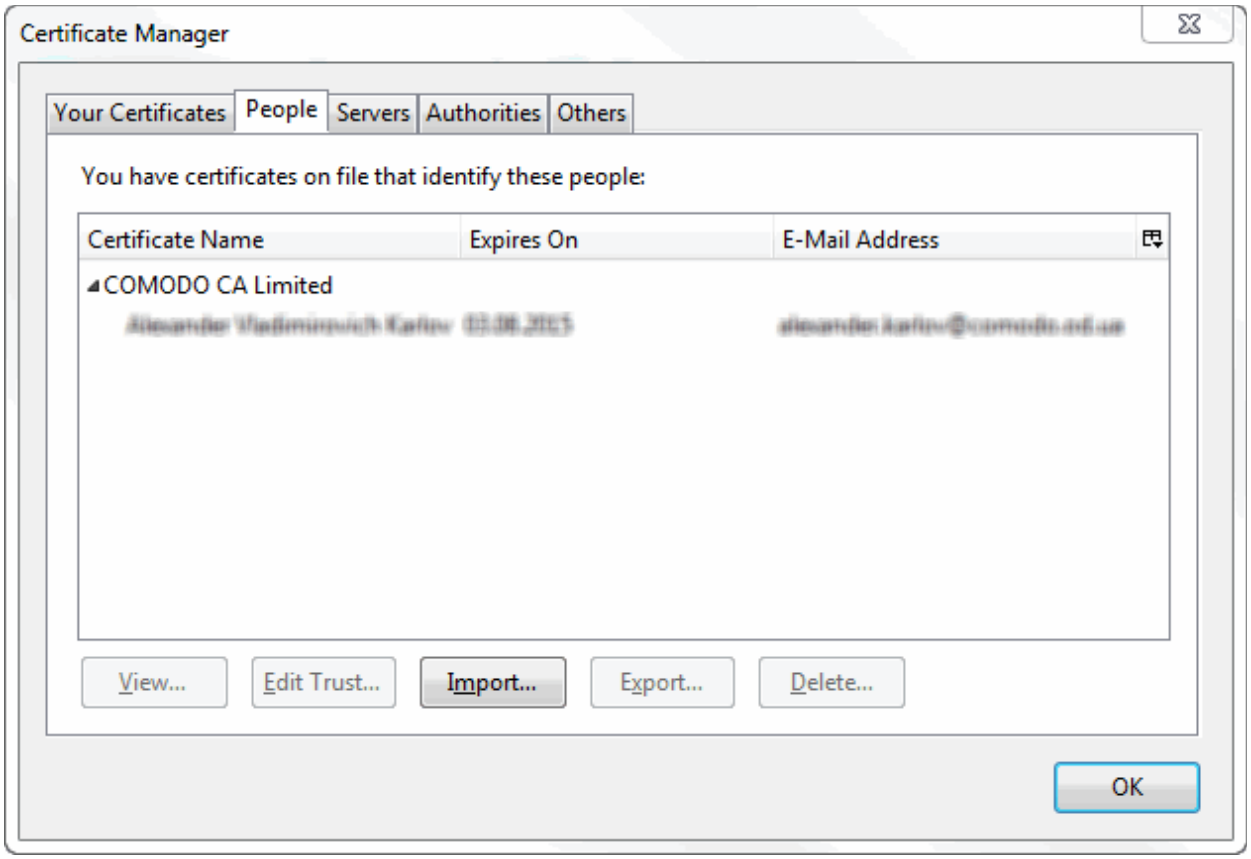


- Click 'OK' in the confirmation dialog.

Note: If you delete your currently active certificate, you will not be able to use it for identifying yourself to the websites that require it.

People

The 'People' tab displays a list of client certificates of the other people that have communicated with you over the secure channel, from the websites. These certificates are necessary for future communication with them through the encrypted channel, as only these certificates will be used to decrypt the messages sent by them.



The dialog enables you to:

- **Import other person's certificate from your local storage to your browser**
- **View the certificate details**
- **Configure trust settings**
- **Export a certificate**
- **Delete expired or revoked certificates**

Importing other person's certificate to your browser

In addition to other people's certificate's certificates automatically stored in your browser, you can manually import some people's certificates with whom you may communicate through encrypted channel. For example, you can export your contact's certificate to your local storage and import into IceDragon browser.

The procedure is same as importing your own certificate. Please refer to **Importing your certificate** in the previous section.

Viewing the Certificate

To view the certificate, select the certificate and click 'View...'. The general information and detailed information on the certificate will be displayed under respective tabs in 'Certificate Viewer' dialog similar to that of your certificate. Please refer to **Viewing the Details** of the Certificate in the previous section.

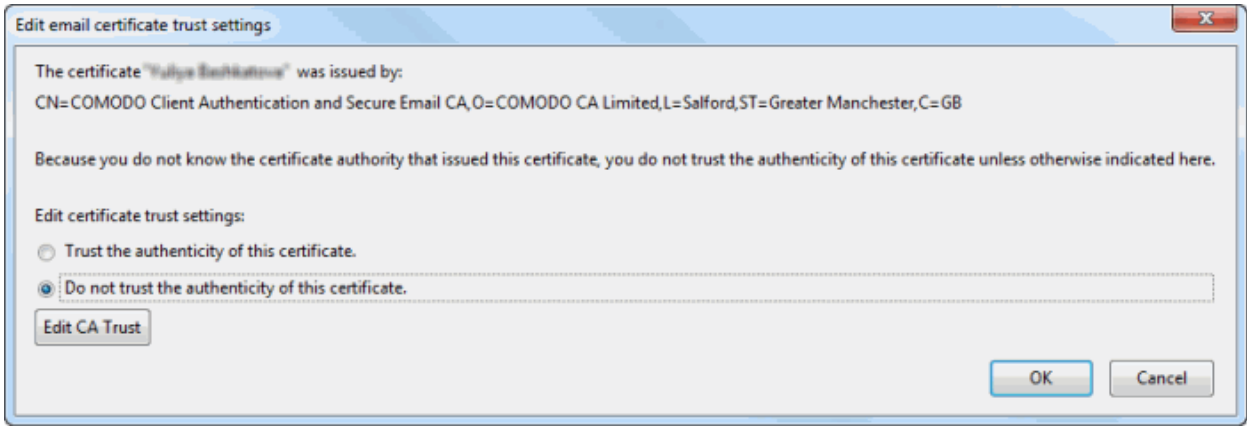
Configuring Trust Settings

You can configure the level up to which the other person's certificate and its issuer can be trusted.

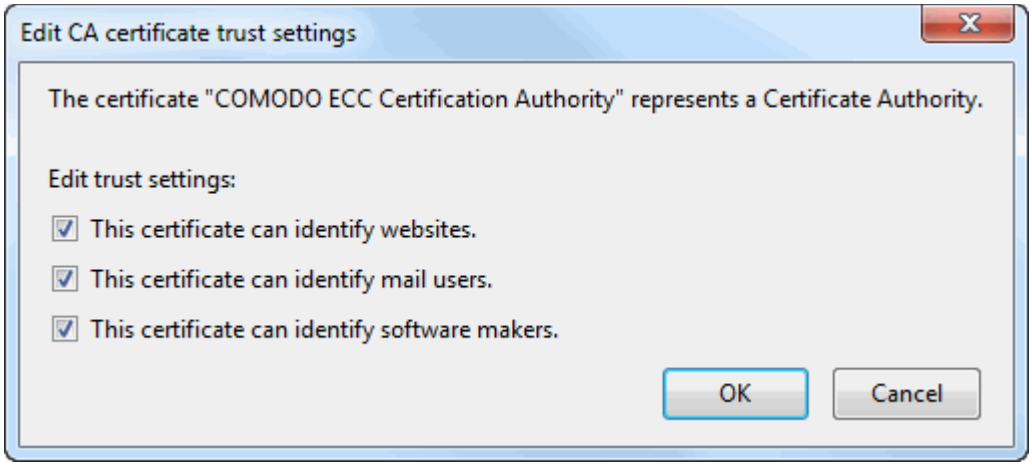
To configure trust settings

- Select the certificate and click 'Edit Trust'

The 'Edit email certificate trust settings' dialog will be opened



- If you want the browser always trust the authenticity of the certificate, select 'Trust the authenticity of this certificate'
- If you do not want the browser to trust the authenticity of the certificate select 'Do not trust the authenticity of this certificate '
- To configure Trust Settings on the CA that has issued this certificate, click 'Edit CA Trust'



- Select the entities that can be authenticated by this CA and click OK
- Click OK in the 'Edit email certificate trust settings' dialog.

Exporting Other People's Certificates

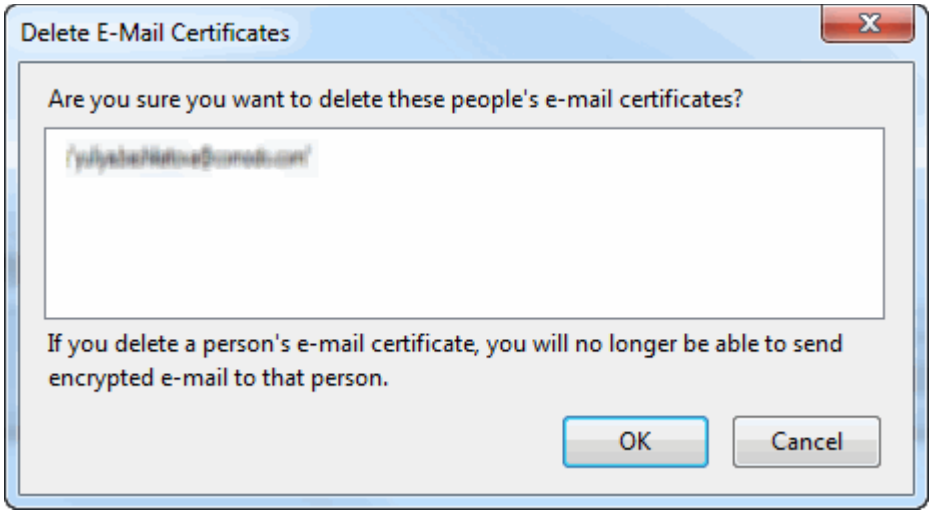
You can export other people's certificate from IceDragon to a safe place, for safe keeping and for importing from other browsers or email clients.

To export a certificate

- Select the certificate
- Click 'Export' and navigate to a safe location in your computer or your network.
- Click 'Save'

Deleting a Certificate

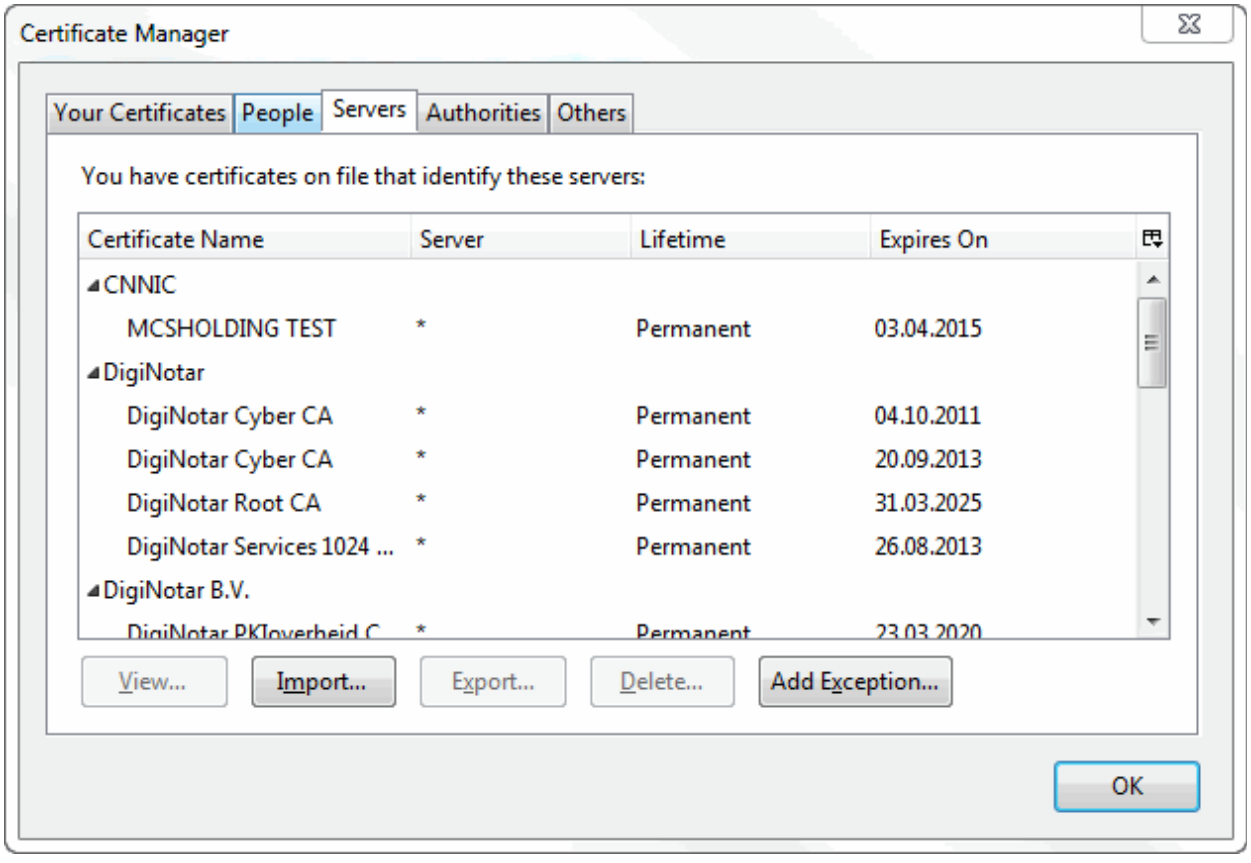
- Select the certificate to be deleted and click 'Delete'.



- Click 'OK' in the confirmation dialog.

Server Certificates

The Server Certificates tab displays a list of certificates that are pre-embedded in IceDragon or have been imported by the user.

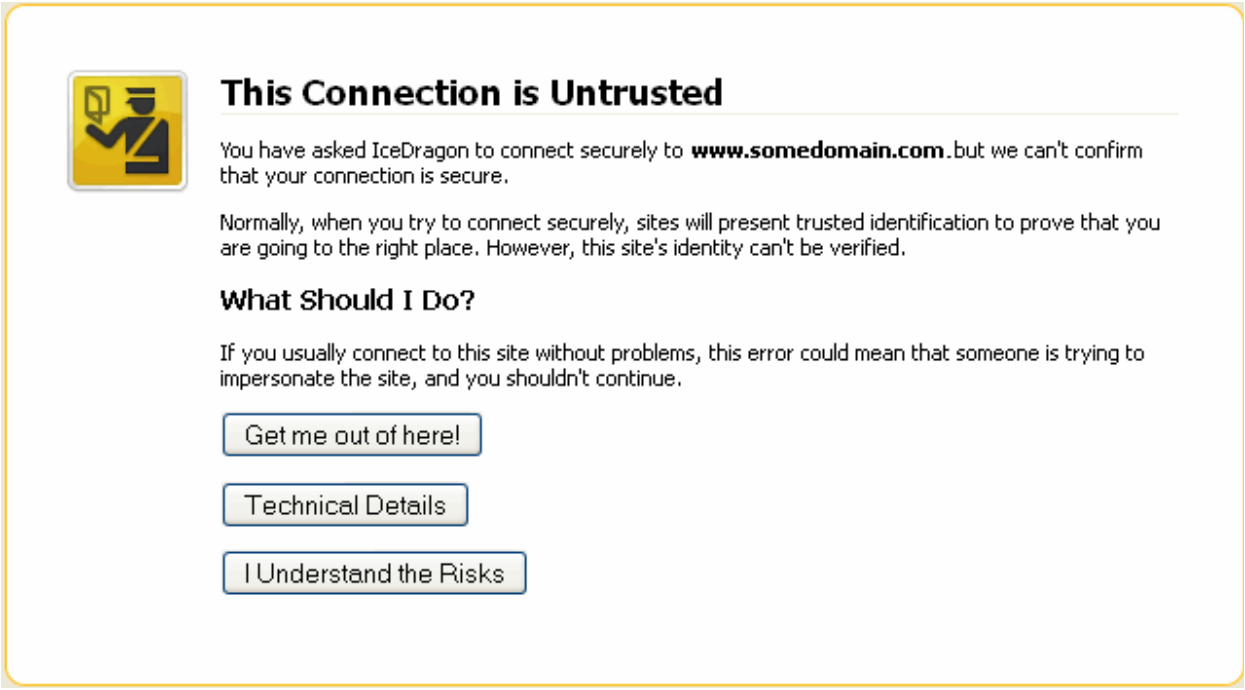


This interface allows you to:

- **View the certificate details** – The procedure is similar to viewing your own certificates. Please refer to **Viewing the Details of the Certificate** for more details
- **Configure Trust Settings** – The Procedure is similar to editing trust settings of other people's certificates. Please refer to '**Configure trust settings**' for more details.
- **Import Certificates from local storage** – You can import server certificates stored locally in your system or

in your network into the browser. The procedure is similar to importing your own certificates. Please refer to '**Importing your certificate** ' for more details.

- **Export Server Certificates** – You can export and save server certificate in a safe location for future use, example, for importing to other browsers or email clients. The procedure is similar to exporting other people's certificates. Please refer to '**Exporting other people's certificates**' for more details.
- **Delete certificates** – Enables you to delete expired and unwanted certificates. The procedure is similar to deleting other people's certificates. Please refer to '**Deleting other people's certificates**' for more details.
- **Add Exceptions** – Some of the websites may use a certificate that has not been issued by a trusted CA. If you visit those websites, Comodo Ice Dragon will display a warning:



- If you trust the site, you can click 'I Understand the risks' and proceed with adding this site as a exception.

The 'Add Exceptions' interface allows you to add such trusted websites in advance, to be exempted from the security check.

- Click 'Add Exceptions' in the Servers tab of Certificate Manager window to add a website manually
- Type the url of the site to be exempted from the security check and click 'Get Certificate'.

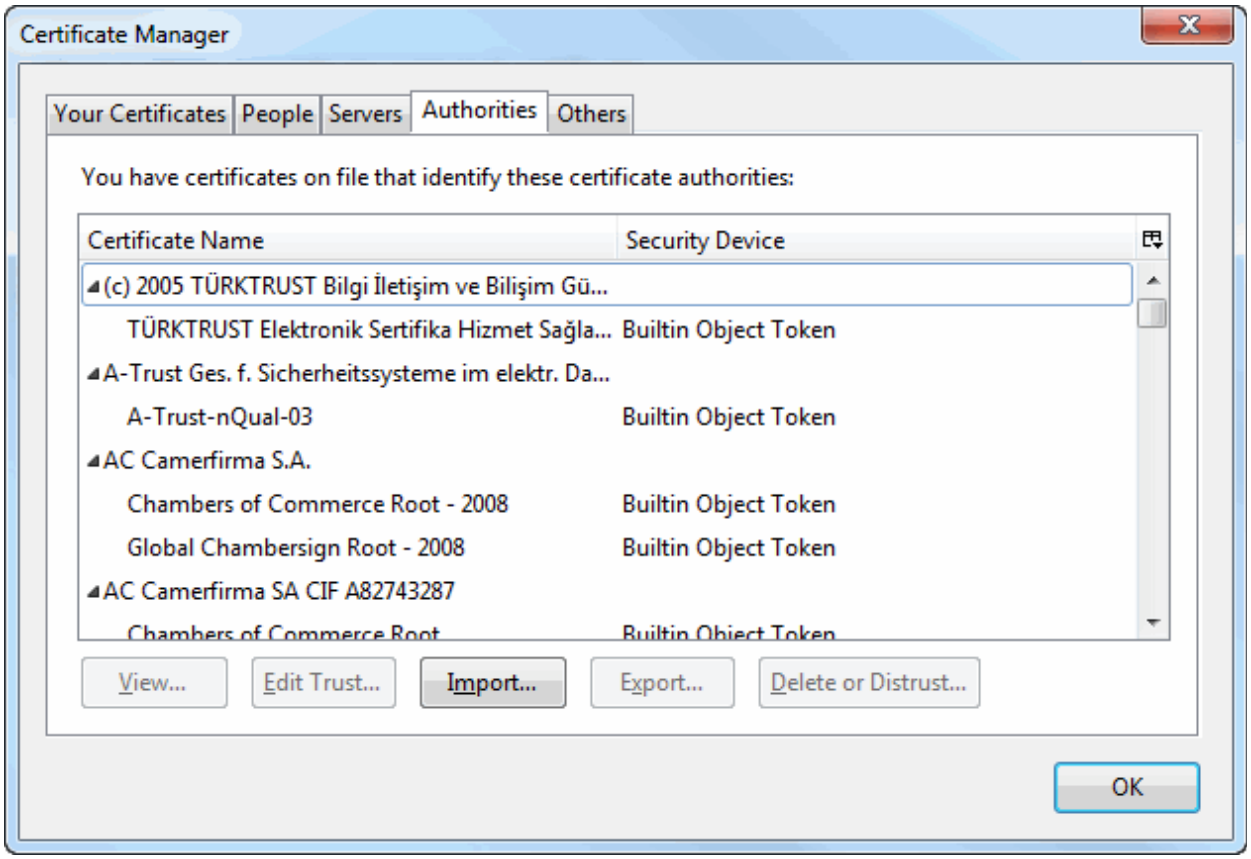
The browser fetches the certificate, checks for its legitimacy and displays its status.

- If you trust the site, click 'Confirm Security Exception'.

The website will be added to the exceptions and transactions through it will be allowed by the website even if the certificate is not trusted.

Authorities

The 'Authorities' tab displays the root certificates of trusted CAs that are pre-embedded in Comodo IceDragon.

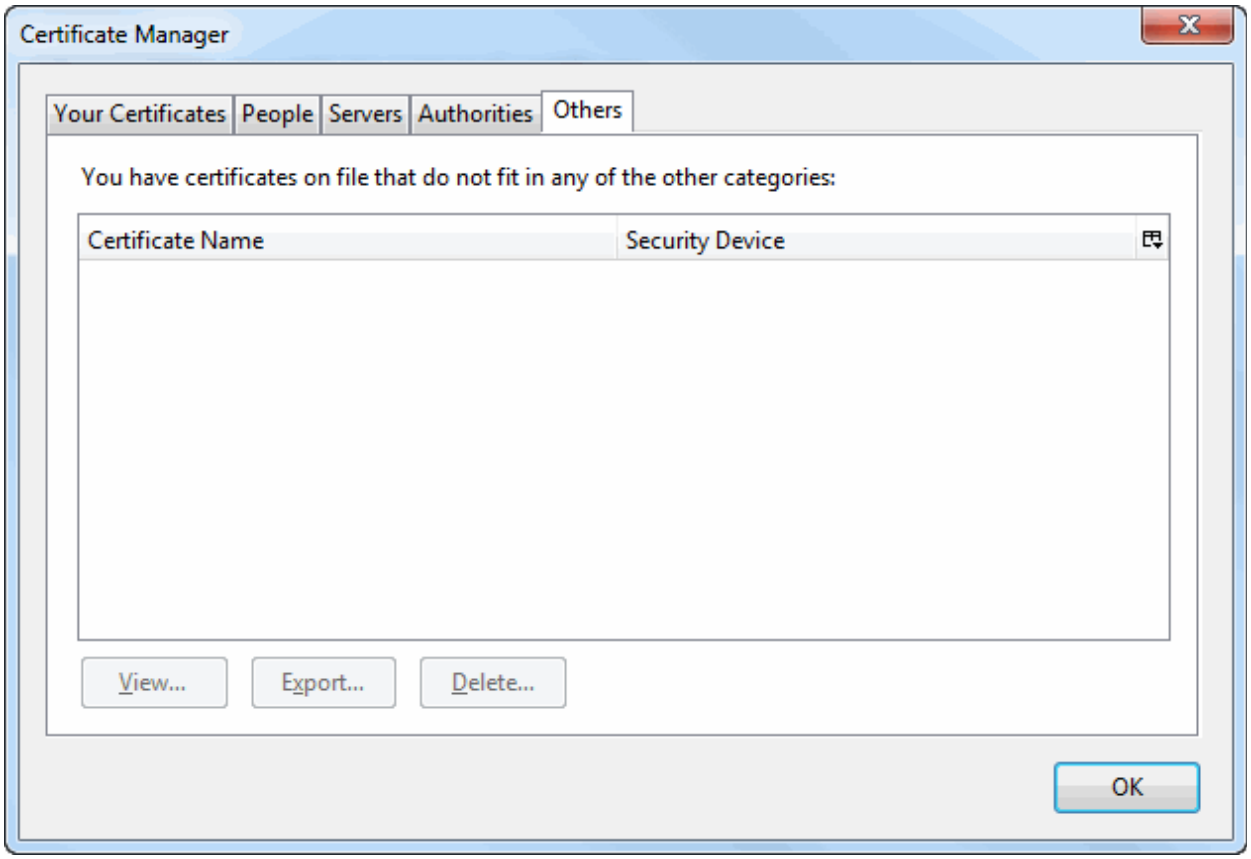


This interface allows you to:

- **View the certificate details** – The procedure is similar to viewing your own certificates. Please refer to **Viewing the Details of the Certificate** for more details
- **Configure Trust Settings** – The Procedure is similar to editing trust settings of other people's certificates. Please refer to '**Configure Trust Settings**' for more details.
- **Import Certificates from local storage** – You can import server certificates stored locally in your system or in your network into the browser. The procedure is similar to importing your own certificates. Please refer to '**Importing your certificate**' for more details.
- **Export Server Certificates** – You can export and save server certificate in a safe location for future use, example, for importing to other browsers or email clients. The procedure is similar to exporting other people's certificates. Please refer to '**Exporting other people's certificates**' for more details.
- **Delete or Distrust certificates** – Enables you to delete expired and unwanted certificates. The procedure is similar to deleting other people's certificates. Please refer to '**Deleting other people's certificates**' for more details.

Others

The 'Others' tab displays the certificates that do not fall under any of the other categories. You can View, Export and Delete certificates from this interface.



Configuring Security Modules that store Certificates and Passwords

Comodo IceDragon contains built-in security modules to store your passwords and certificates securely. In addition for enhanced security, you can use external security devices like smart cards to store your certificates and passwords, and configure IceDragon to fetch your certificates and passwords from them.

Security Modules

A Security Module or a PKCS#11 module is a program to manage encryption and decryption using the PKCS #11 standard. A PKCS #11 module can control a software security devices as well as hardware security devices like a smart card or token, in a reader inserted into a slot dedicated for the module

By default, Comodo IceDragon has two internal PKCS#11 security modules

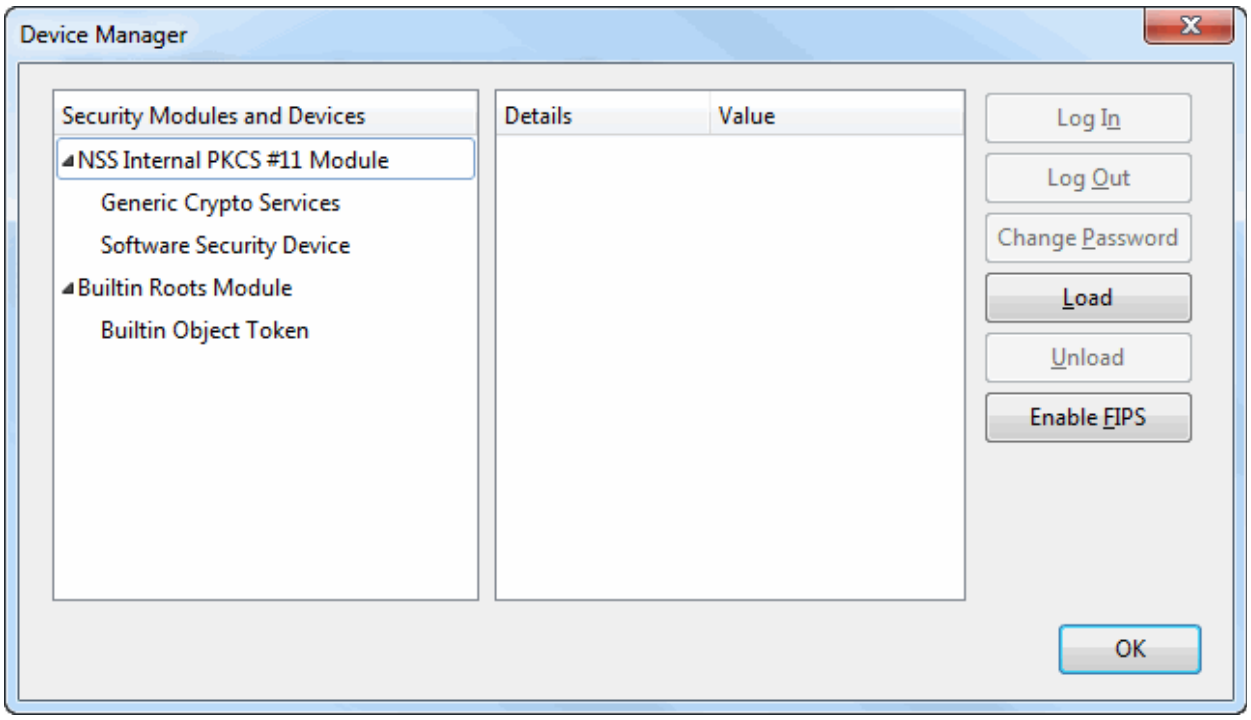
- **NSS Internal PKCS #11 Module** that controls two types of security devices:
  - **Generic Crypto Services** - A special software security device for all cryptographic operations required by the Netscape Internal PKCS #11 Module.
  - **Software Security Device** - A software security device for storing your certificates and passwords that cannot be stored on external security devices, including any CA certificates that you have installed in addition to default CA certificates that came with the browser.
- **Built-in Roots Module** controls a special security device called the Built-in Object Token.
  - **Built-in Object Token** - A token that stores the default CA certificates that came with the browser.

Managing Security Modules

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'Certificates' tab from 'Advanced' interface

- Click 'Security Devices'

The 'Device Manager' dialog will be opened

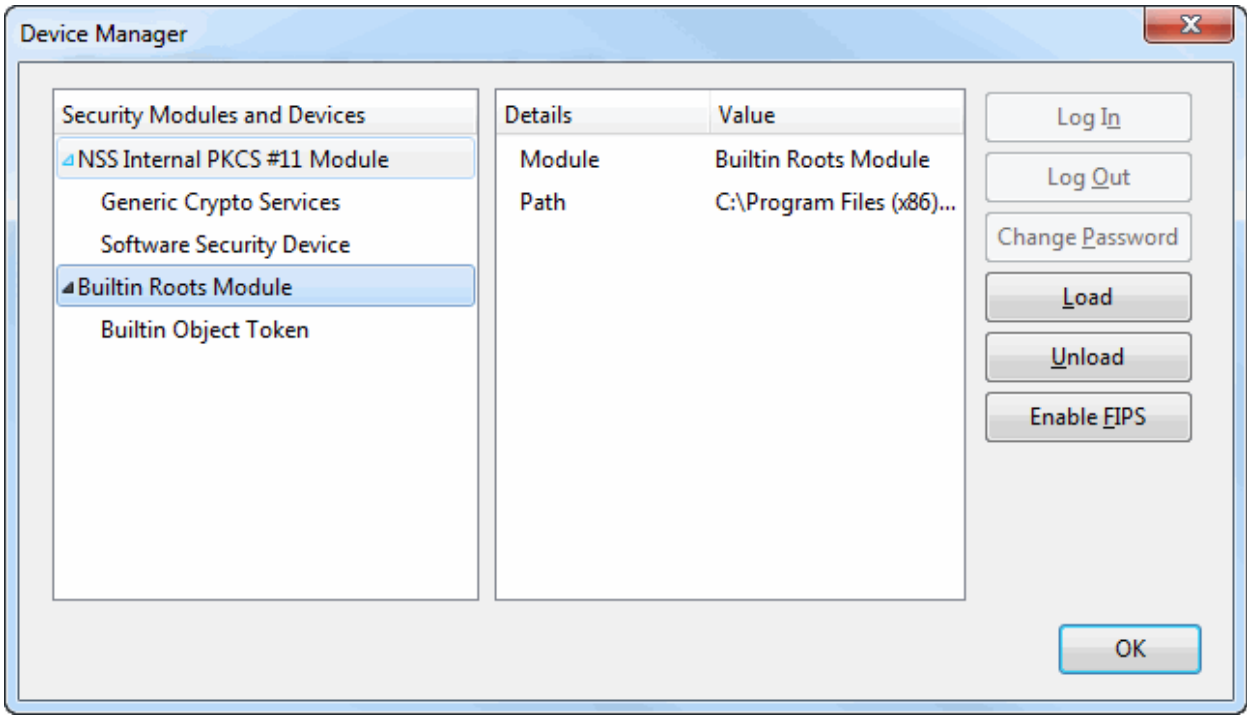


This dialog enables you to

- **View the details of existing security modules**
- **Log-in to a security device for using cryptographic services**
- **Change master passwords for the security devices**
- **Add security devices**
- **Enable FIPS Mode**

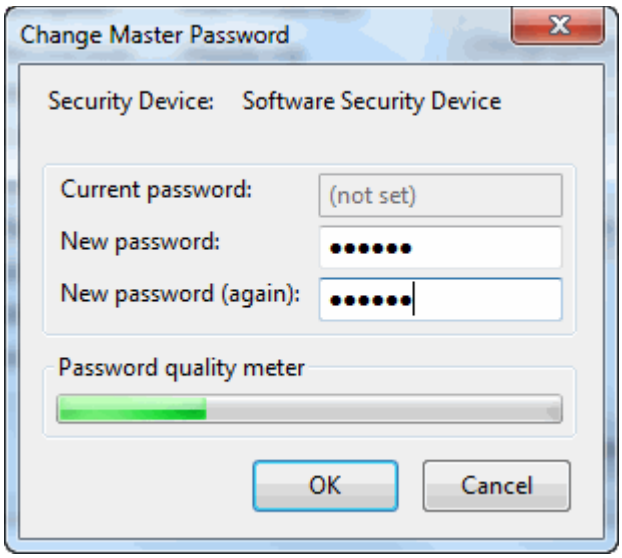
To view the details of a security module or device

- Click on the module or the device
- The details of the module or the device is displayed in the middle pane



To login to a security device

- Select the security device and click 'Log In'
- Enter the Master Password for the security device and click 'OK'



Note: You need to enter the Master Password for the browser to fetch the certificates and passwords. If you haven't set a Master Password please see the instructions on '**To set or change Password**'.

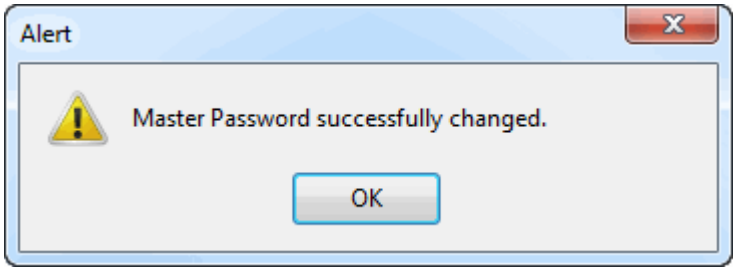
You will be logged-in to the security device so that the browser can access the certificates and the passwords stored by the security device.

- To logout of the security device, click 'Log Out'

To set or change master password

- Select the security device and click 'Change Password'

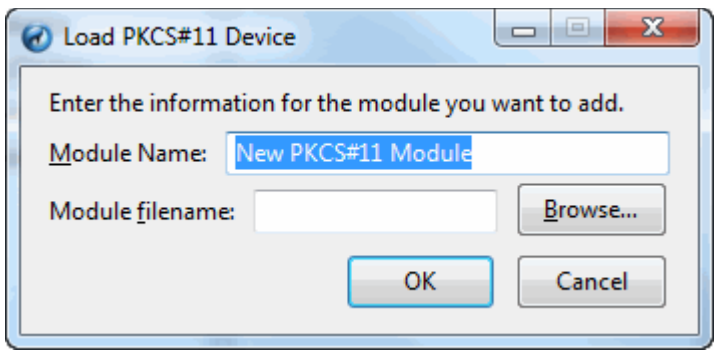
- Enter your current password in the 'Current password' field. If you are setting the Master Password for the fist time, leave this field blank
- Enter your new password, re-enter it for confirmation in the respective fields and click 'OK'.



Adding a new security device

If you want to use an external security device like a smart card, you need to first install the module software following the instructions that came with the security device. You may have to physically connect the device to the port specified in the instructions during installation. After installation:

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' menu > 'Advanced' tab
- Click 'Certificates' tab from 'Advanced' interface
- Click 'Security Devices'
- Click 'Load' in the 'Device Manager' interface



- Enter a name for the new device in order fo the browser to identify it in the 'Module Name' field.
- Enter the path of the module file you installed with the device in the 'Module filename' field. Alternatively Click 'Browse' and navigate to the location in your hard drive where you have installed the module and click 'Open'
- Click 'OK'

Your new module will be loaded> you can set a password and login to the device for the browser to access the certificates and passwords stored by the new device.

- To remove a module, select the module and click 'Unload'

Enabling FIPS Mode

Federal Information Processing Standards Publications (FIPS PUBS) 140-1 is a US government standard for implementations of cryptographic modules - hardware or software that encrypts and decrypts data or performs other cryptographic operations (such as creating or verifying digital signatures).

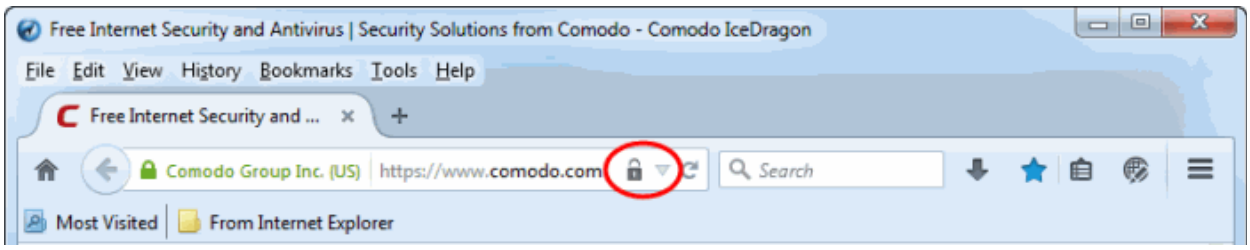
All the encryption and decryption processes of Comodo IceDragon can be configured to adhere to FIPS PUBS 140-1 through the Device Manager interface.

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'Certificates' tab from 'Advanced' interface
- Click 'Security Devices'
- Click 'Enable FIPS'

7.13. Force Secure Connections

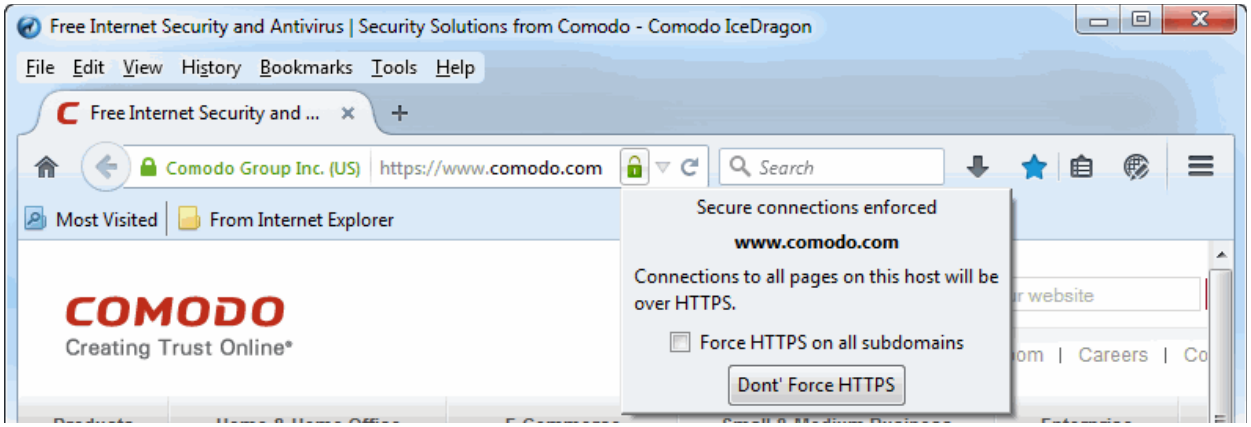
The 'Force Secure Connections' feature allows a user to specify that all future connections to a particular website are made with a secure HTTPS connection. You also have the option to enforce HTTPS connectivity with any sub-domains.

When you visit a site using a HTTPS connection, Comodo IceDragon will display a padlock icon on the right hand side of the address bar:



By default, the padlock is gray, meaning secure connections are not yet enforced. No additional actions will be performed if the page is loaded again.

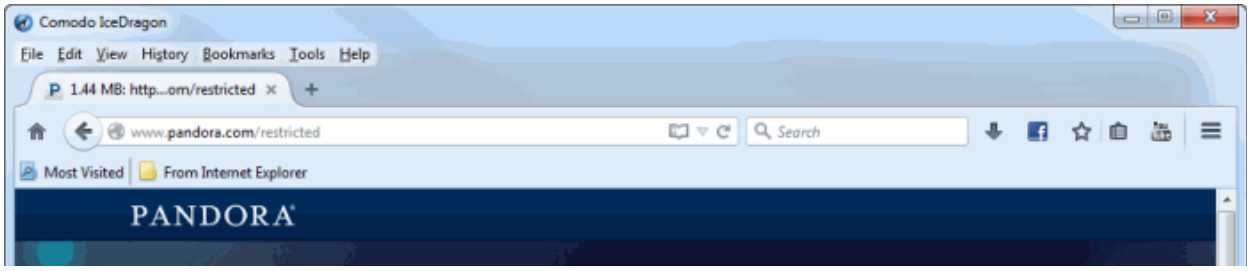
Click the padlock icon to enforce secure connections:



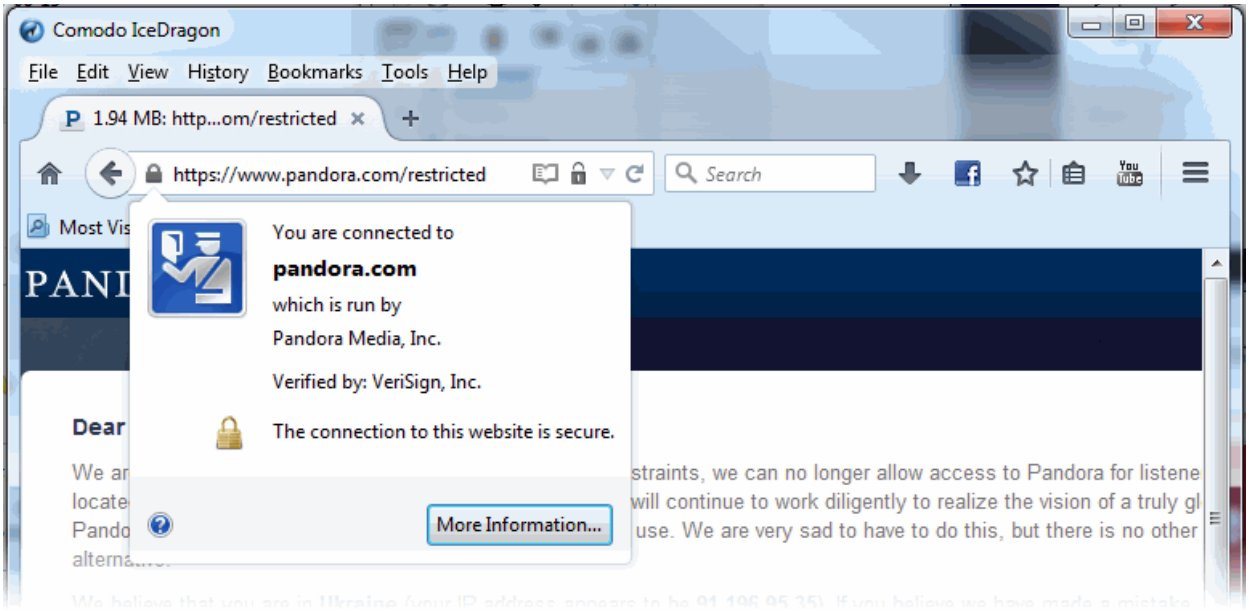
- The address bar padlock will turn green, meaning secure connections are enforced for this session and all future visits
- All information exchanged between you and this website will be encrypted using the strongest available algorithms
- Check 'Force HTTPS on all subdomains' box if you want secure connections throughout the domain
- If you wish to disable forced secure connections, click 'Don't force HTTPS'.

Example usage

This feature is particularly useful for websites that do not, by default, use secure connections on their login pages. For example, the Pandora sign-in page does not ordinarily have HTTPS connections on its log-in page Note the address is plain HTTP instead of HTTPS - the 'S' stands for secure:



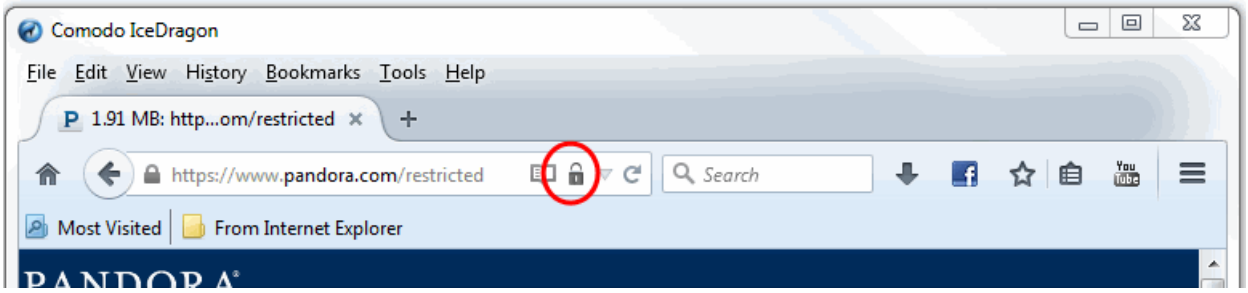
It's possible your credentials may still be posted to HTTPS once you click the 'Sign in' button, but the absence of a certificate on this page means you cannot verify the authenticity of the website. Furthermore, loading the sign-in page over HTTP also means you cannot verify the page's integrity - it may have been modified by a 3rd party before it loaded in your browser.



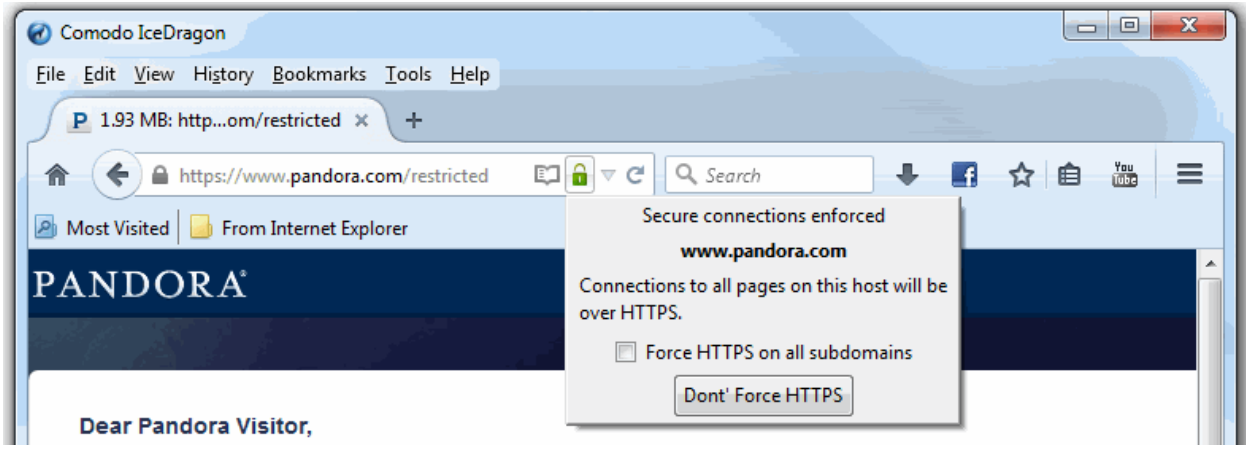
With a HTTPS connection, you can click the lock on the left of the address bar to view the website's SSL certificate. Apart from encrypting the information you submit and ensuring page integrity, the certificate also contains critical website identity information which allows you to verify that you are connected to the genuine Pandora website.

To force secure connections on the Pandora log-in page:

- You first have to physically change www.pandora.com to **https://**www.pandora .com
- Do this by placing your mouse cursor in the IceDragon address bar and typing 'https://' before www.pandora .com so the full URL says https://www.pandora.com
- Press enter. The page will re-load with a secure connection and thus make available the 'Force Secure Connections' padlock on the right:



- Click the padlock to enforce secure connections. All future visits to the Pandora log-in page will be automatically conducted over a secure, encrypted connection:



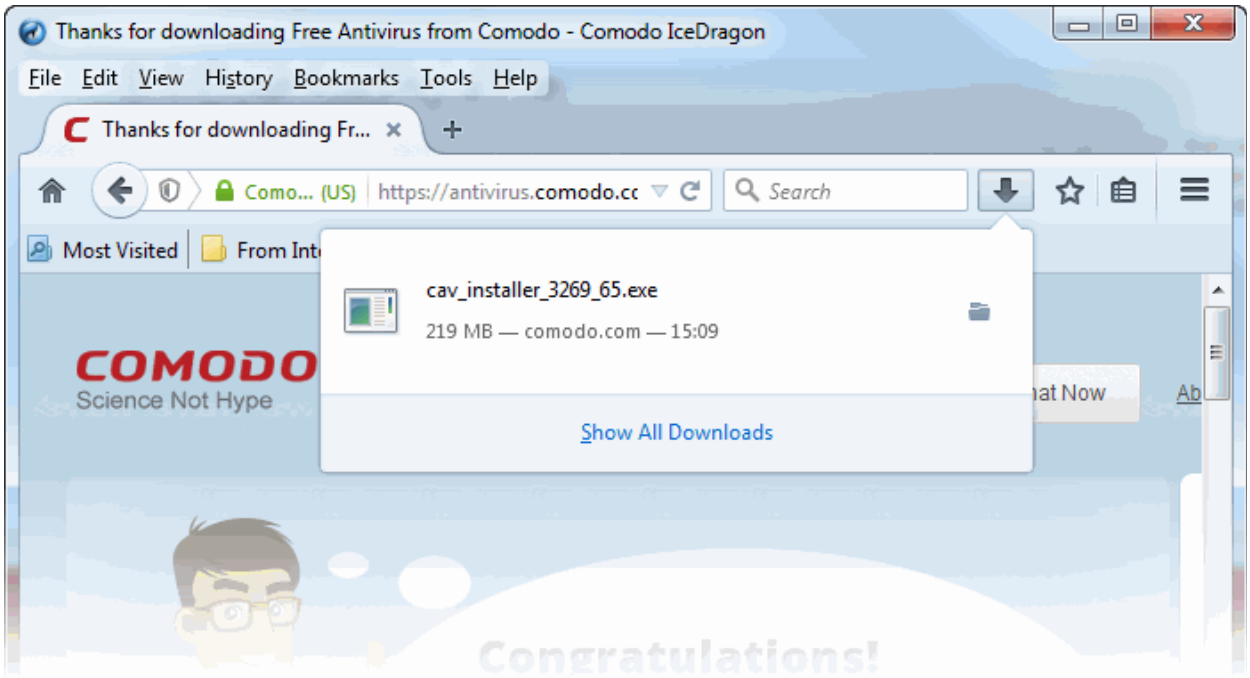
8. Downloads

This section of the guide explains how to download a file from the Internet, change the download location in your computer, clear download history and see download history. Click the following links to know more.

- **Downloading a file**
- **Changing download location**
- **Viewing download history**
- **Clearing download history**

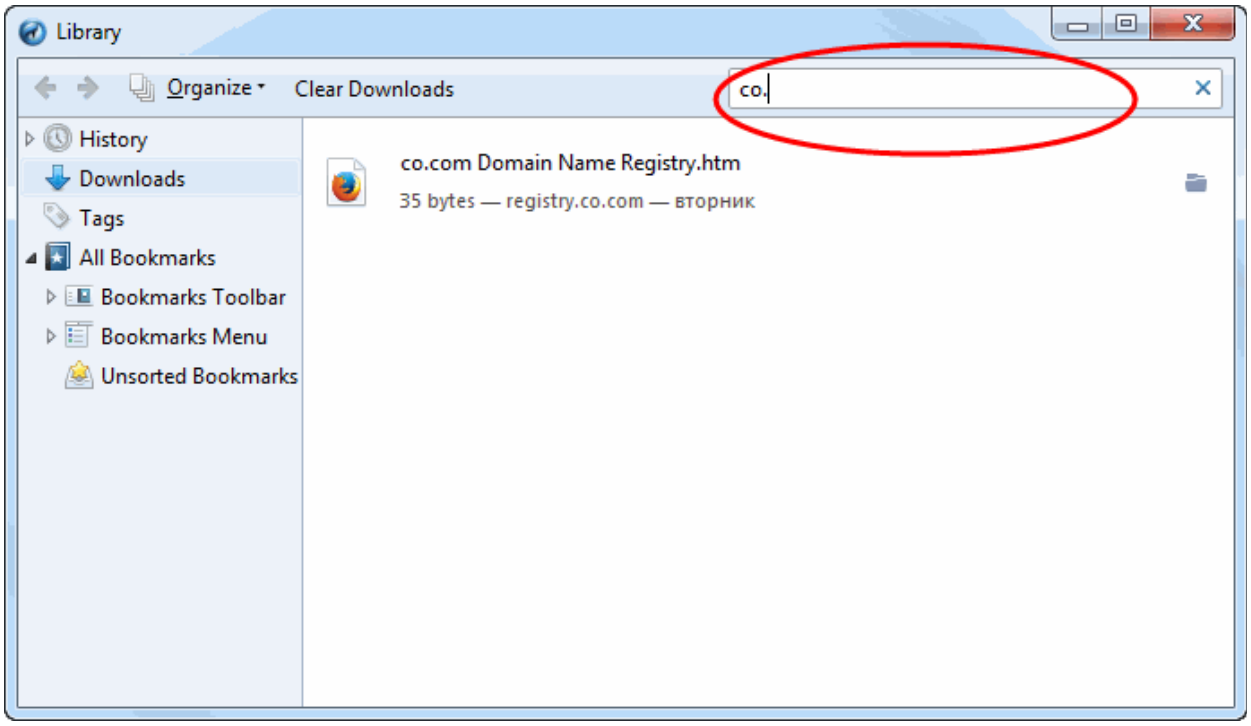
8.1. Downloading a File

When you start downloading a file from the Internet, Comodo IceDragon displays the progress of the download in Navigation toolbar. It also scan for viruses to prevent automatic download of malicious software into your computer. The Downloads window displays information about each download, such as the file name, file size, time remaining before the download is complete, where the file was downloaded from, and the time or date of the download.



To **view** app/file from the list of downloads, click the arrow in the navigation toolbar type. The list currently downloaded items will be listed. To view all downloads, click the 'Show All Downloads' or you can achieve through the 'Tools' > 'Downloads'

To **search** app/file from the list of downloads, type the name in the download search box.



From here you can:

- **Pause**: Pauses any downloads currently in progress by clicking the button beside the file entry. When you want to continue downloading those files, use the button to finish those downloads.
- **Cancel:** To cancel the download click button beside that file entry to cancel it.
- **Open the file:** Double-clicks on the entry to open the file.
- **Open the file's folder:** Right-clicks on an entry for a file that, select Open Containing Folder.
- **Remove the file's entry**: If you do not wish to keep a record of a particular download, right-click the file entry, select Remove From List. This will not delete the file itself.
- **Retry a Download:** If for any reason a download does not complete, use the **Retry** button next to the file entry and IceDragon will restart the download.
- To clear the whole list click the **Clear Downloads** at the top of the window. This will not delete the downloaded files.

Further reading related to the topic of this page:

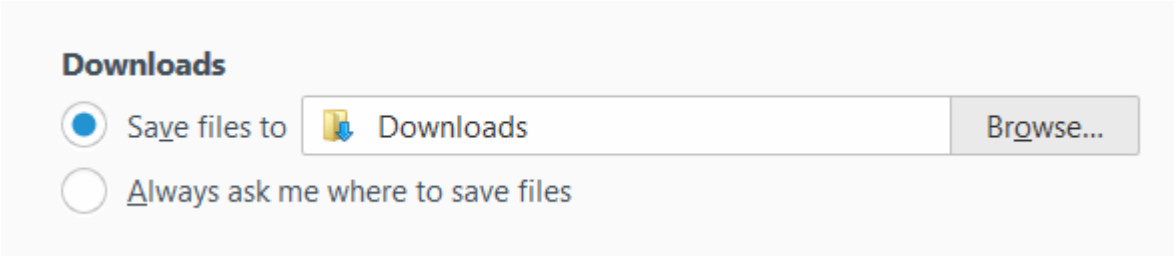
- **Changing Download Location**
- **Clearing Download History**
- **Viewing Download History**

8.2. Changing Download Location

By default, Comodo IceDragon saves all downloaded files in \Documents and Settings\<username>\My Documents\Downloads. You can change this location or change settings so that you are asked for the location every time you start the download.

To change the download location

- Click the IceDragon menu located at the top right corner of the browser
- Click the Options menu > General.
- On the 'Downloads' section check the box:



- **Save files to** - IceDragon automatically saves all downloads to the specified folder. If you want to download the application in a location other than the default location, click 'Browse' to choose a different location.
- **Always ask me where to save file** - IceDragon asks you to select a folder for every download you wish to save.

Further reading related to the topic of this page:

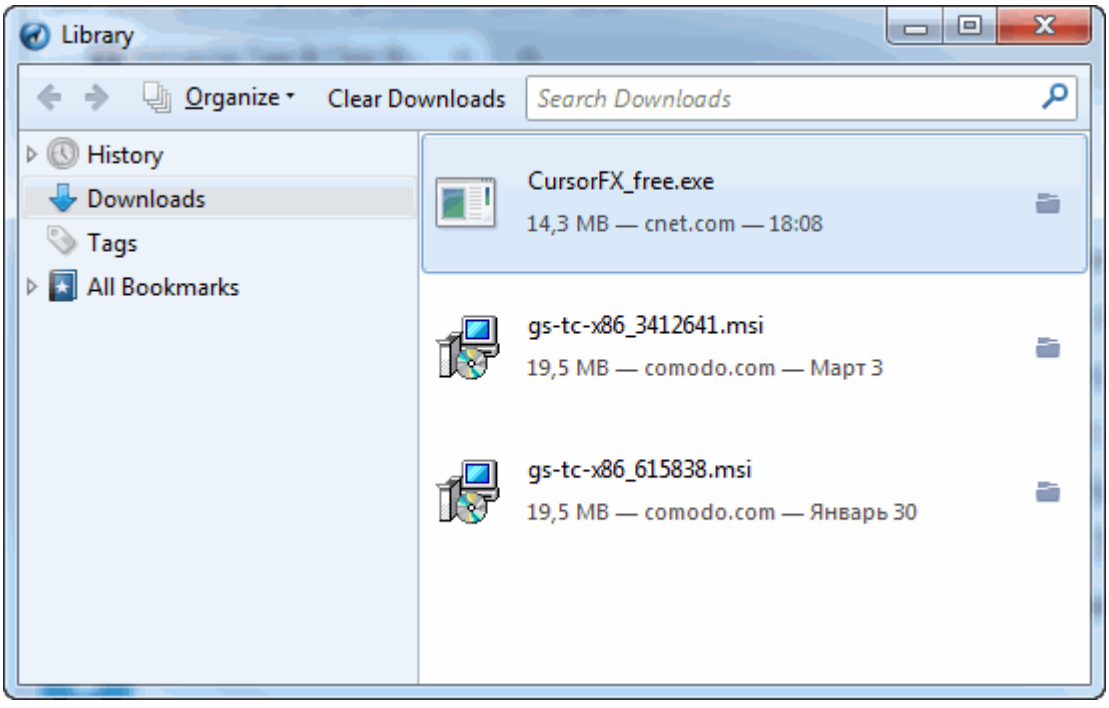
- **Downloading a File**
- **Clearing Download History**
- **Viewing Download History**

8.3. Viewing Download History

You can view the list of downloaded files in the Downloads page. The files are listed in chronological order.

To view your download history

- Select 'Tools'> Downloads from the menu
- The Library page will be displayed



- Click on the file name to run it.
  - Click 'Remove From History' to remove a specific download.
  - Click 'Open Containing Folder' to see the location of the file in your computer. Please note that this will

not work if the file has been moved. Click 'Go to Download Page' opens the web page.
- Click 'Go to Download Page' will takes you to the initial page
- Click 'Copy Download Link' copies the URLs of the selected links.
- Click 'Clear Downloads' to remove all the downloads int he list.

- Enter the name of the download in the search box to search it.
- Use the shortcut keys 'CTRL+J to open the downloads page.

Further reading related to the topic of this page:

- **Downloading a File**
- **Changing Download Location**
- **Clearing Download History**

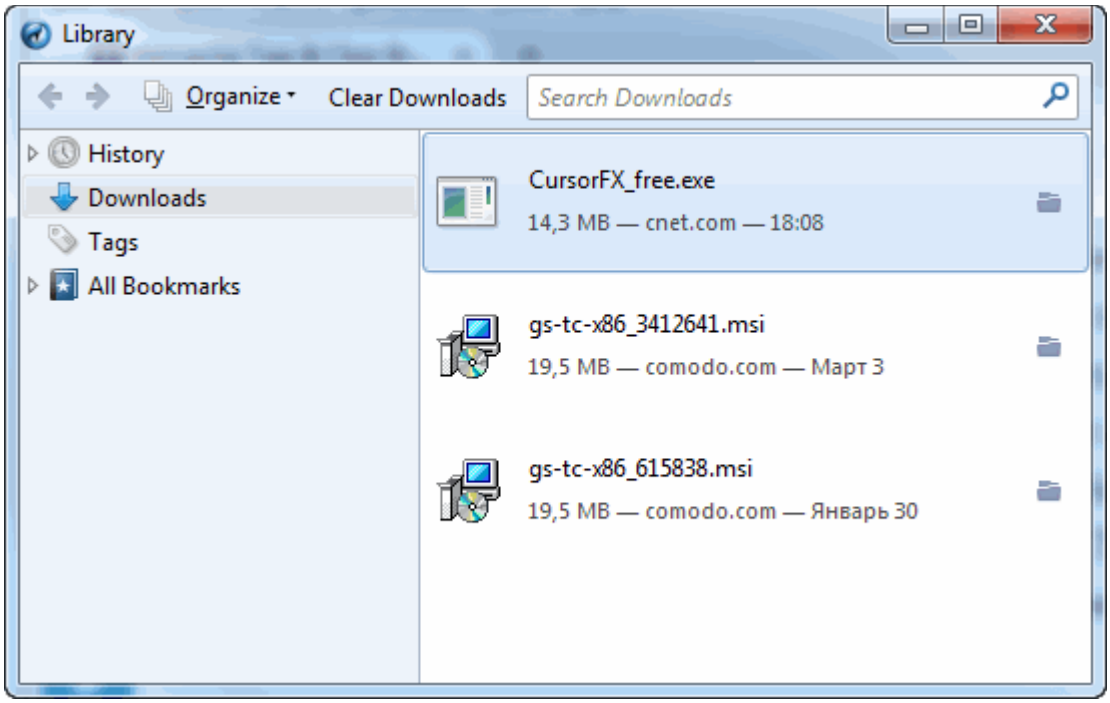
8.4. Clearing Download History

Click the following links for more help:

- **To remove specific items**
- **To clear a history automatically**
- **To clear a download history manually**
- **To remove a single website**

To remove specific items from download history

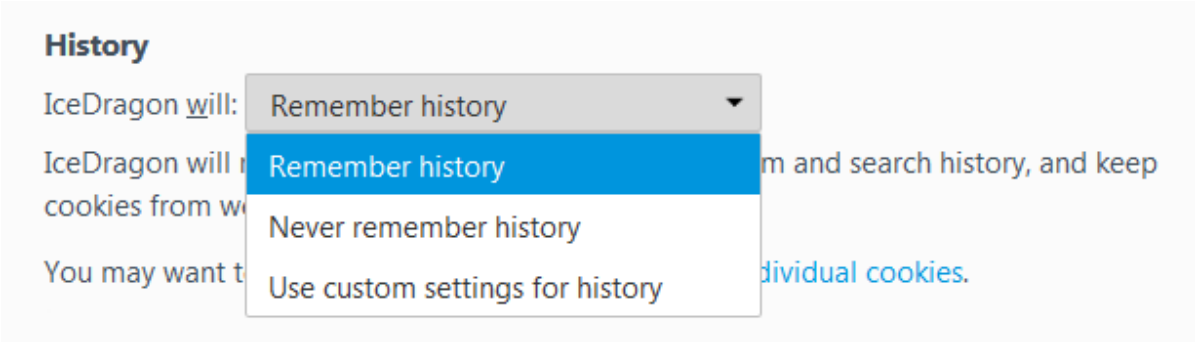
- Select 'Tools'> Downloads from the menu
- The 'Library' window will be displayed.



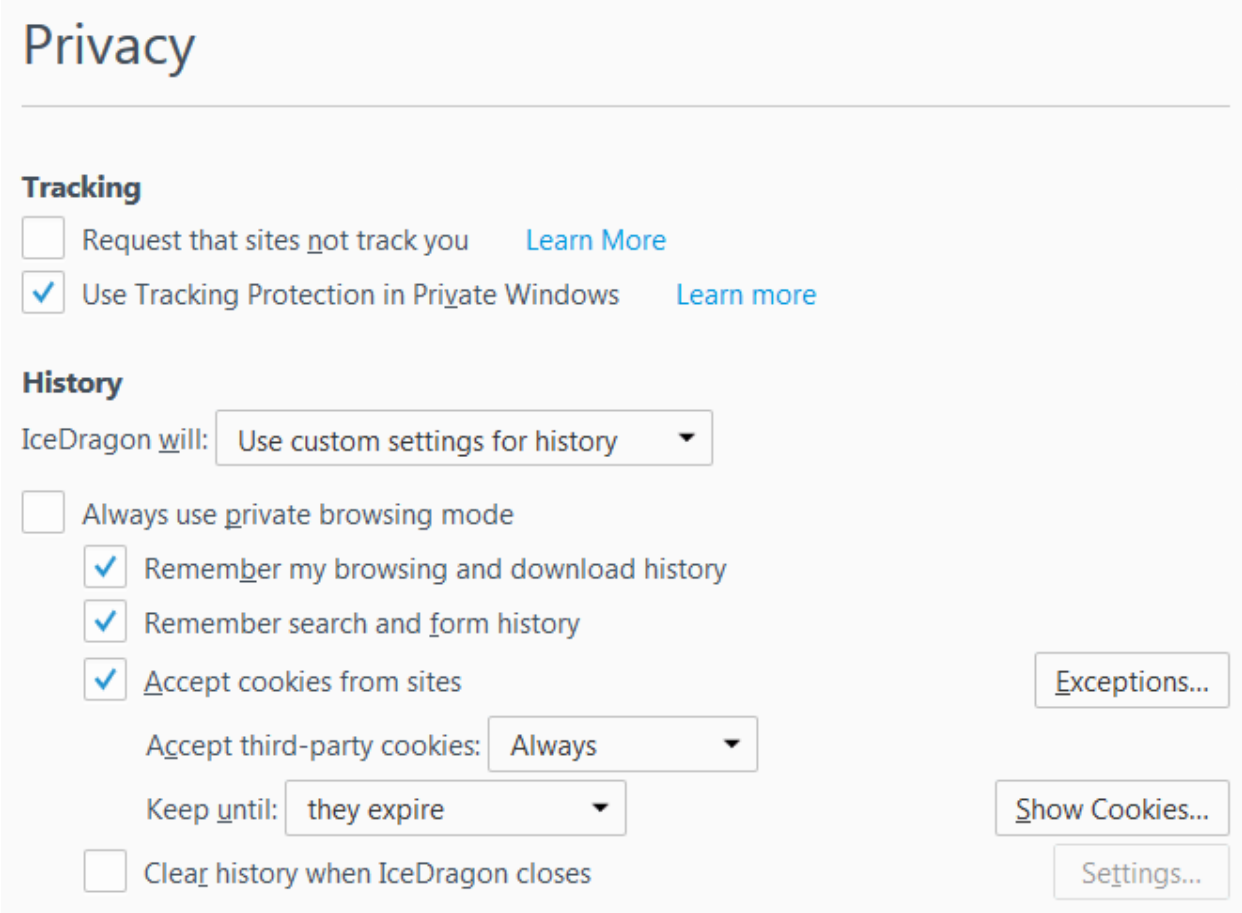
- Right-click and select 'Remove From History' to remove the item.

To clear a history automatically

- Click the IceDragon menu located at the top right corner of the browser
- Select the 'Options' > in the 'History' section under the 'Privacy' panel select the 'IceDragon will' drop-down.



- **Remember history** - Keeps a record of the pages you have visited, uses the text you have entered into the search bar or into form fields, accepts cookies from sites until they expire.
- **Never remember history** - Keeps no record of your browsing history, will not remember text you enter into form fields or the search bar, deletes cookies when you close IceDragon.



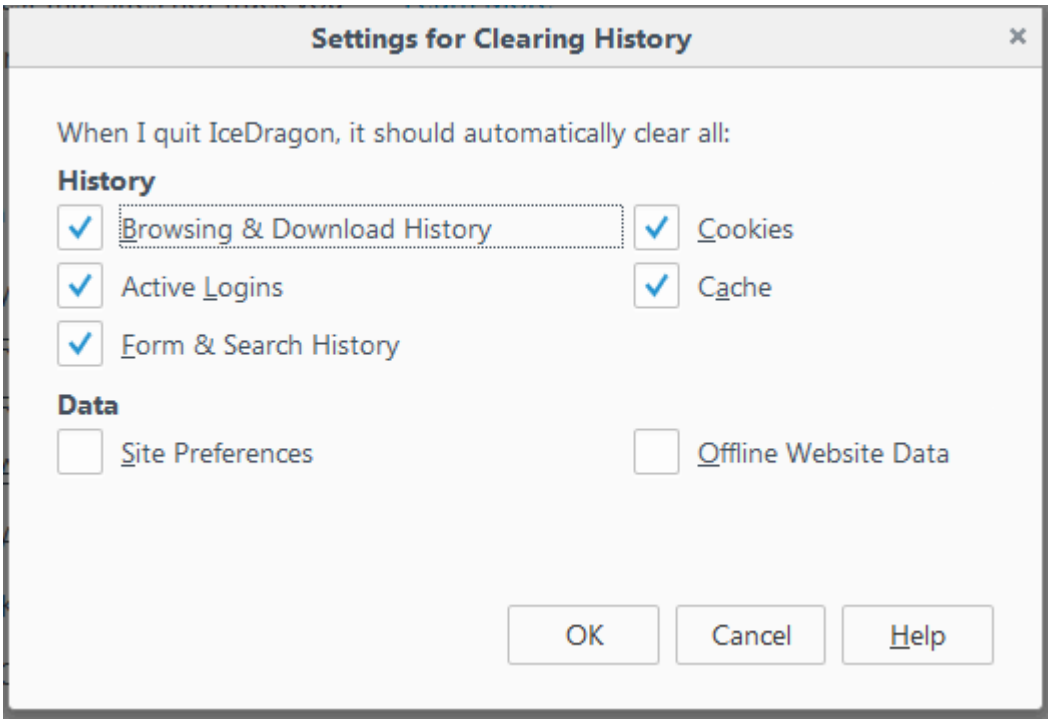
- **Use custom settings for history:**
  - **Always use private browsing mode** - CID will not remember any new history the next time it starts.
  - **Remember my browsing history and download history** - CID keeps a list of the pages you have visited and a list of files you gave downloaded.
  - **Remember search and form history** - The text you enter into form fields or the search bar will be remembered. For more information, see **Form Autofill** topic.
  - **Accept cookies from sites** - CID will accept cookies from sites. Click 'Exceptions' to manages Allow /Allow for Session or Block cookies. For more information, see **Managing cookies** topic.
    - **Accept third-party cookies** - CID accepts cookies
    - **Keep until:**

- **they expire-** Allows the sites you visit to specify how long IceDragon should keep their cookies.
- **I close IceDragon** - Removes cookies when you close CID.
- **ask me every time** - Will ask you how long to keep a cookie each time a site tries to set one.

- **Clear history when IceDragon closes** - Saves items that will be deleted when you close IceDragon.

- **Exceptions** - Displays the Exceptions window.
- **Show cookies** - Displays the Cookies window.

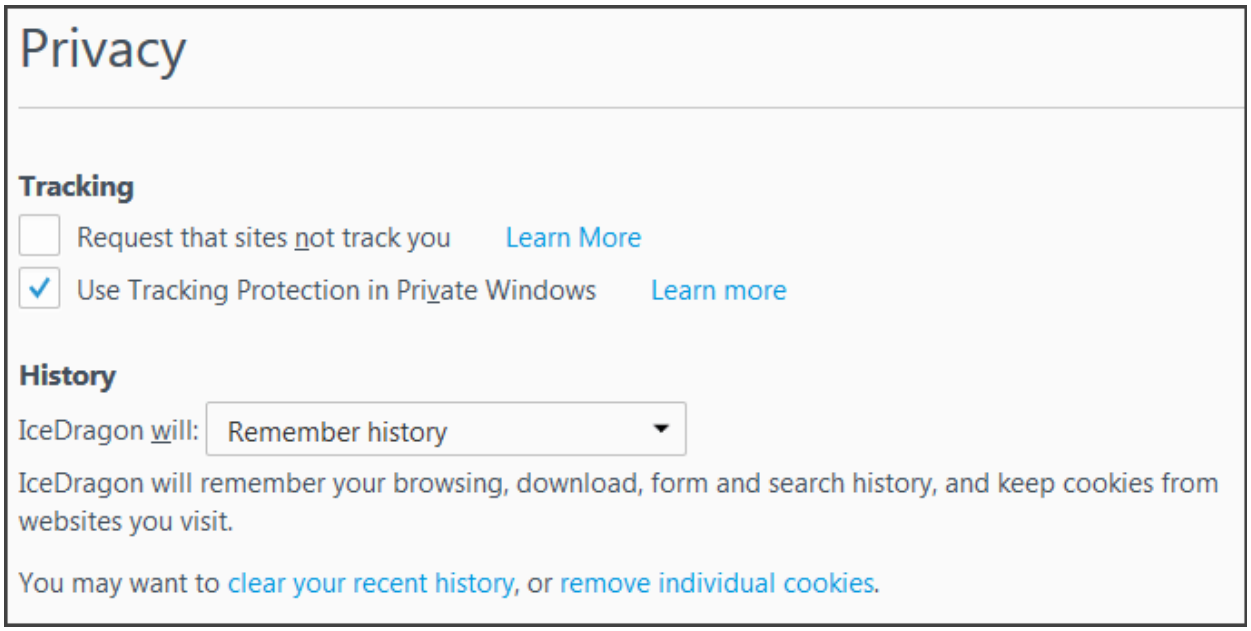
- Select 'Use custom settings to history'.
- Check the box '**Clear history when IceDragon closes**' and click the 'Settings' button next to it to manage what items are deleted.
- The 'Settings for Clearing History' dialog will be displayed.
- Select the items that have to be automatically cleared each time you quit.



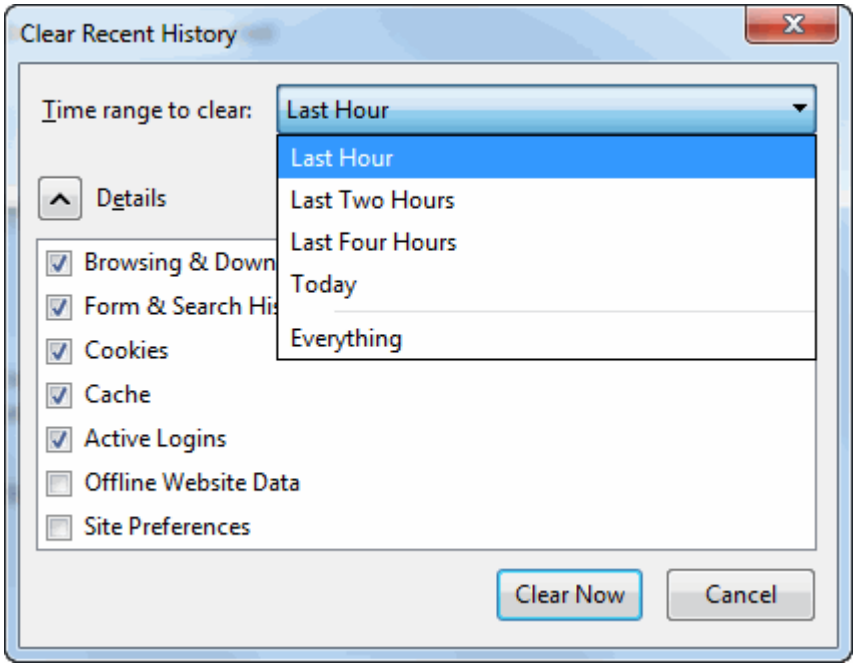
- Click 'OK'.

To clear a download history manually

- Click the IceDragon menu located at the top right corner of the browser
- Select Options > click the 'Clear your recant history' link from the History section under the Privacy tab.



- The 'Clear Recent History' dialog will be displayed.
- Select the period for which you want to delete the download history from the 'Time range to clear' drop-down box.
- Click 'Details' arrow to select the type of information will get cleared.



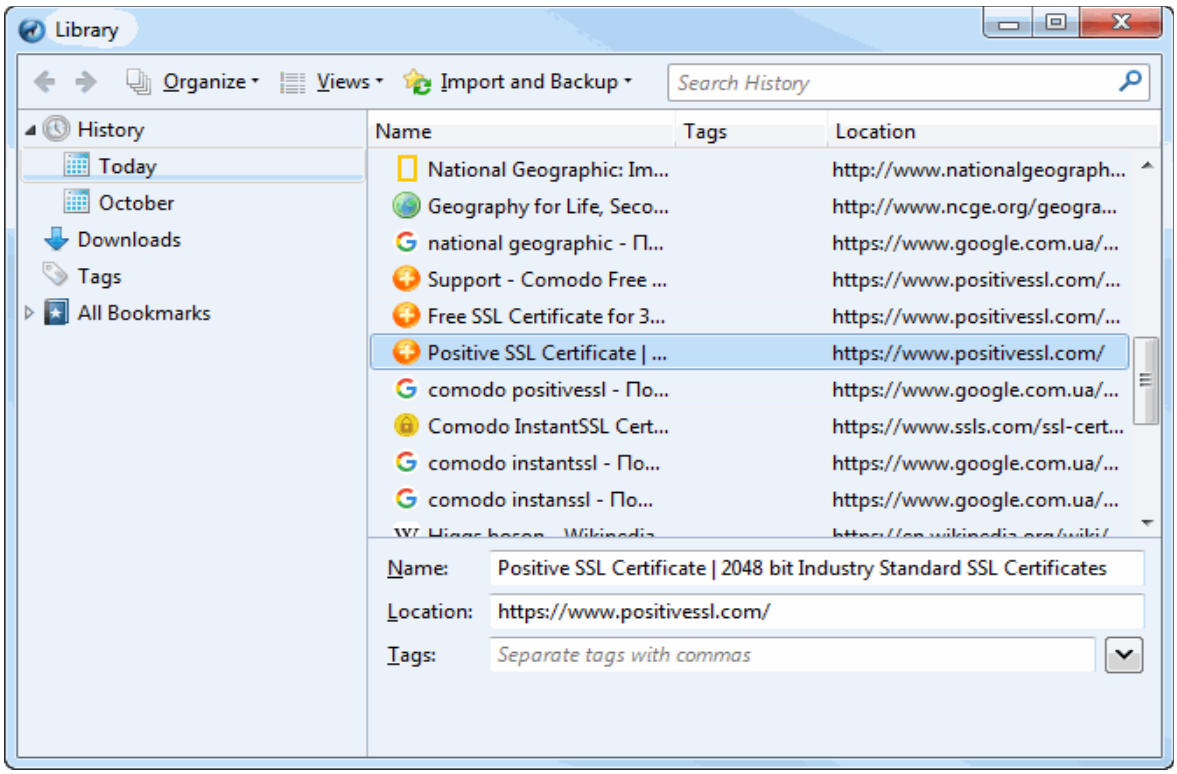
- Click the 'Clear Now' button.

The download history for the selected period and type of information will be deleted from the list. Please note that the downloaded files will remain in your computer.

To remove a single website from the download history

This option deletes all history items (browsing and download history, cookies, cache, active logins, passwords, saved form data, exceptions for cookies, images, pop-ups).

- Click the IceDragon menu located at the top right corner of the browser
- Select 'Options' > click the 'History' menu > select 'Show All History' to open the 'Library' window.



- Search the website you want to remove from your history by typing its name in the 'Search History' field in the top-right corner.
- Right-click on the site you want to remove, scroll down the 'Forget About This Site'.

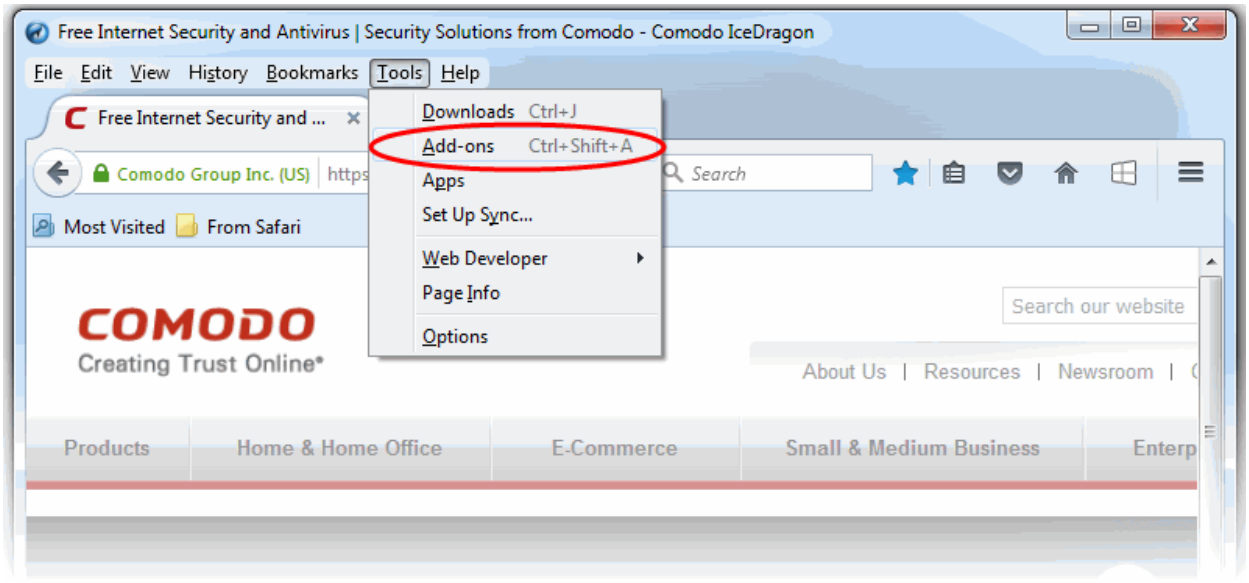
Further reading related to the topic of this page:

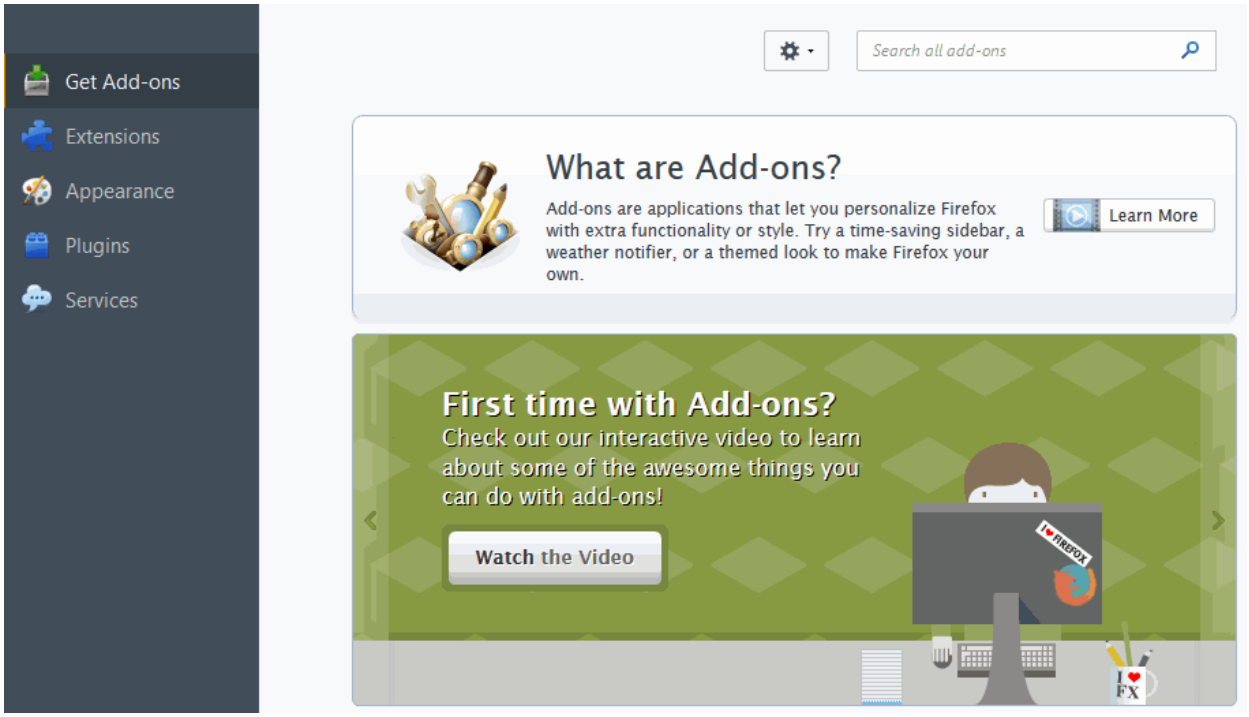
- **Downloading a File**
- **Changing Download Location**
- **Viewing Download History**

9. Introduction to Add-ons

Add-ons, extensions and plug-ins help expand the basic feature set of Comodo IceDragon with additional capabilities. These include, for example, the ability to play certain video formats; the ability to handle more file types; the ability to change the IceDragon theme; the ability to use animated mouse pointers; the ability to quickly update your Facebook profile and much, much more.

To open the Add-ons interface, click the 'Tools' menu then click the 'Add-ons' menu entry:





Comodo IceDragon enables you to install three types of Add-ons

- **Extensions** - Allow you to add new features or modify existing features. Examples include extensions to block advertisements, to download videos from websites, to add features from other browsers and to integrate IceDragon with websites like Facebook.
- **Appearance** - IceDragon 'Themes' allow you to change the look of overall look of the browser including buttons, menus and other browser elements. 'Personas' decorate the menu bar and tab strip with a background image.
- **Plugins** - Allow you to add support for different kinds of Internet content. This includes patented formats like Flash, QuickTime, and Silverlight that are used for video, audio, online games, presentations.
- **Services** - Allow you to add social features to Comodo IceDragon browser to keep in touch with your friends.

See also:

- **Downloading and Installing Add-ons**
- **Installing Add-ons from local storage**
- **Configuring updates for add-ons**

9.1. Installing Add-ons

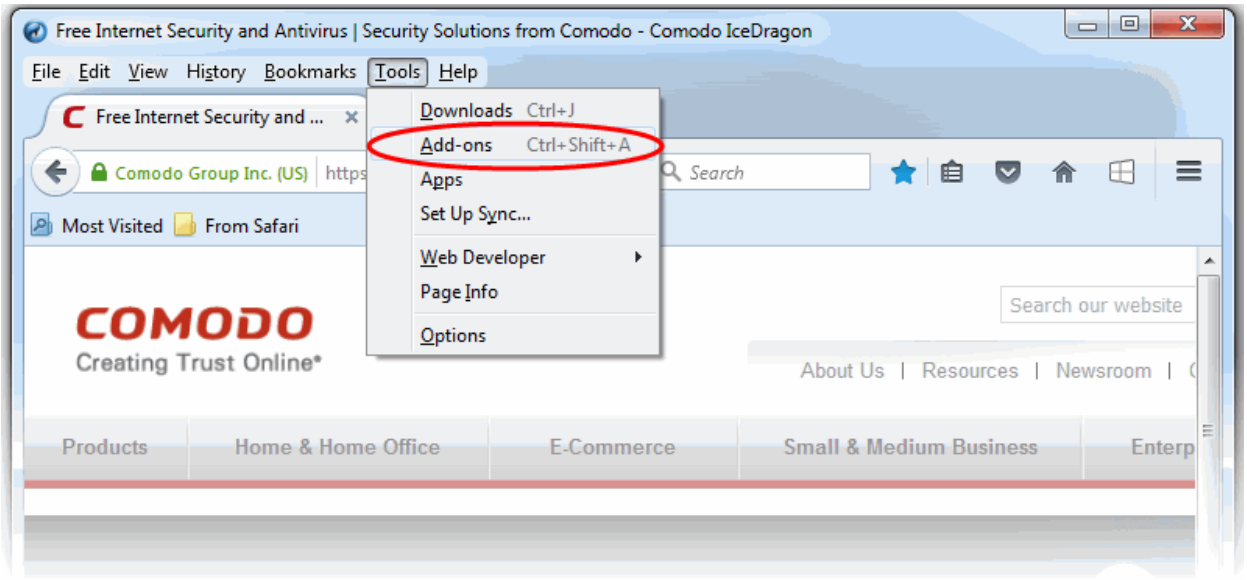
Thousands of Add-Ons are developed daily for Comodo IceDragon from around the world. You can choose the Add-Ons that meet your requirements and install them in your browser.

Click the links below for more help:

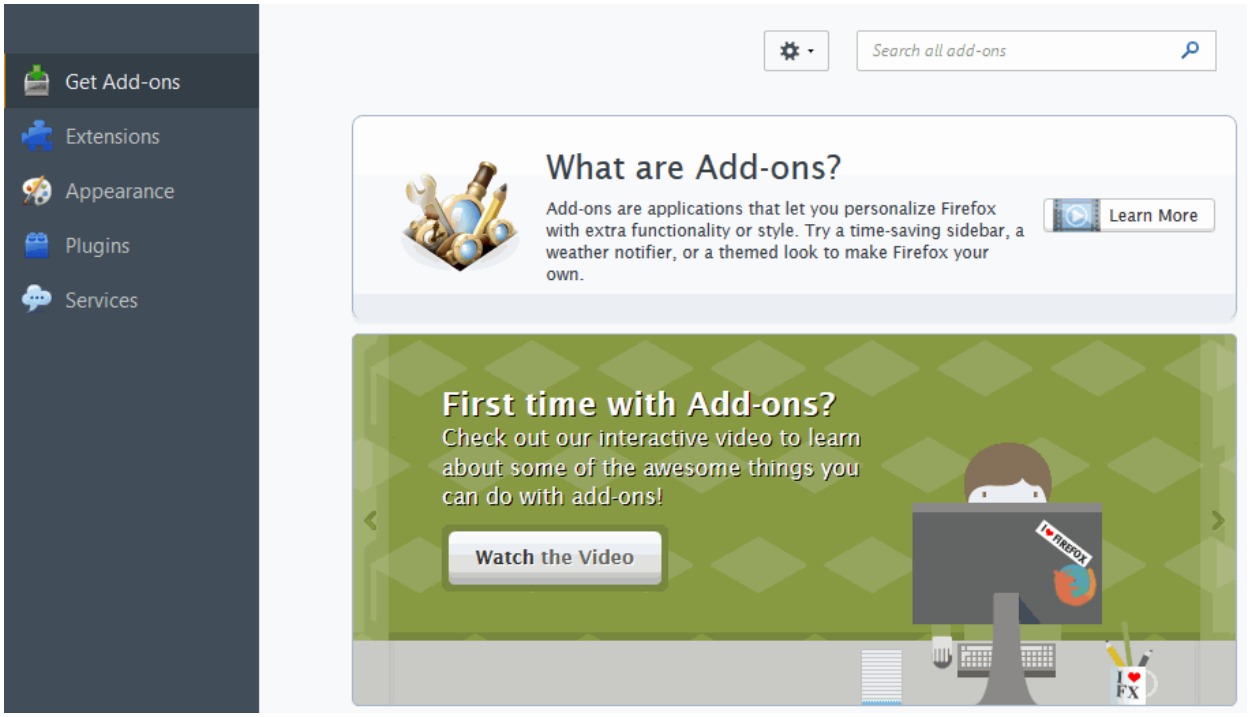
- **Downloading and installing Add-ons**
- **Installing Add-ons from local storage**
- **Configuring updates to Add-ons**

9.1.1. Downloading and Installing Add-ons

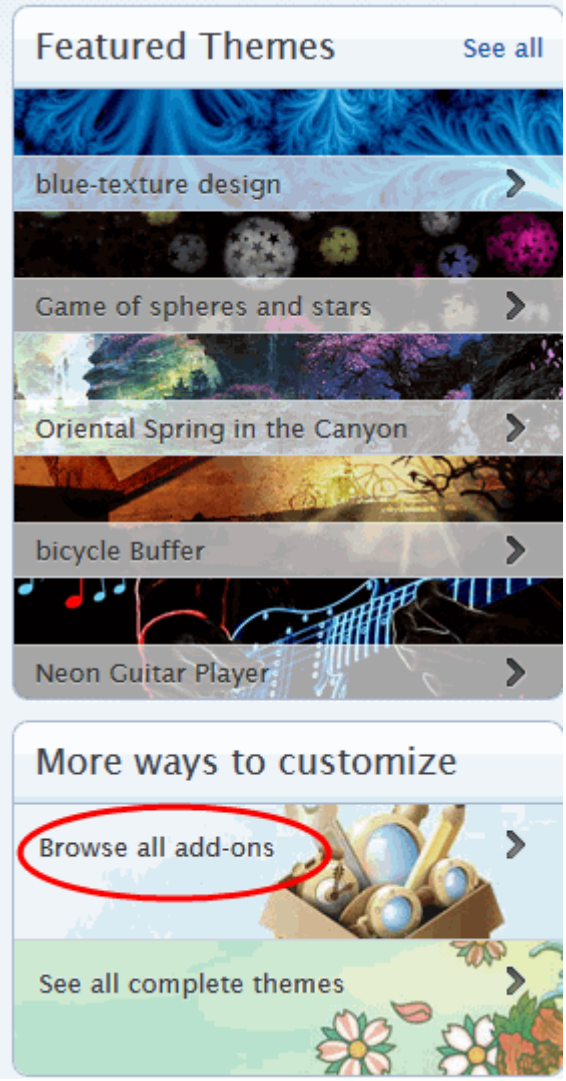
- First, open the Add-ons interface by clicking the 'Tools' menu.



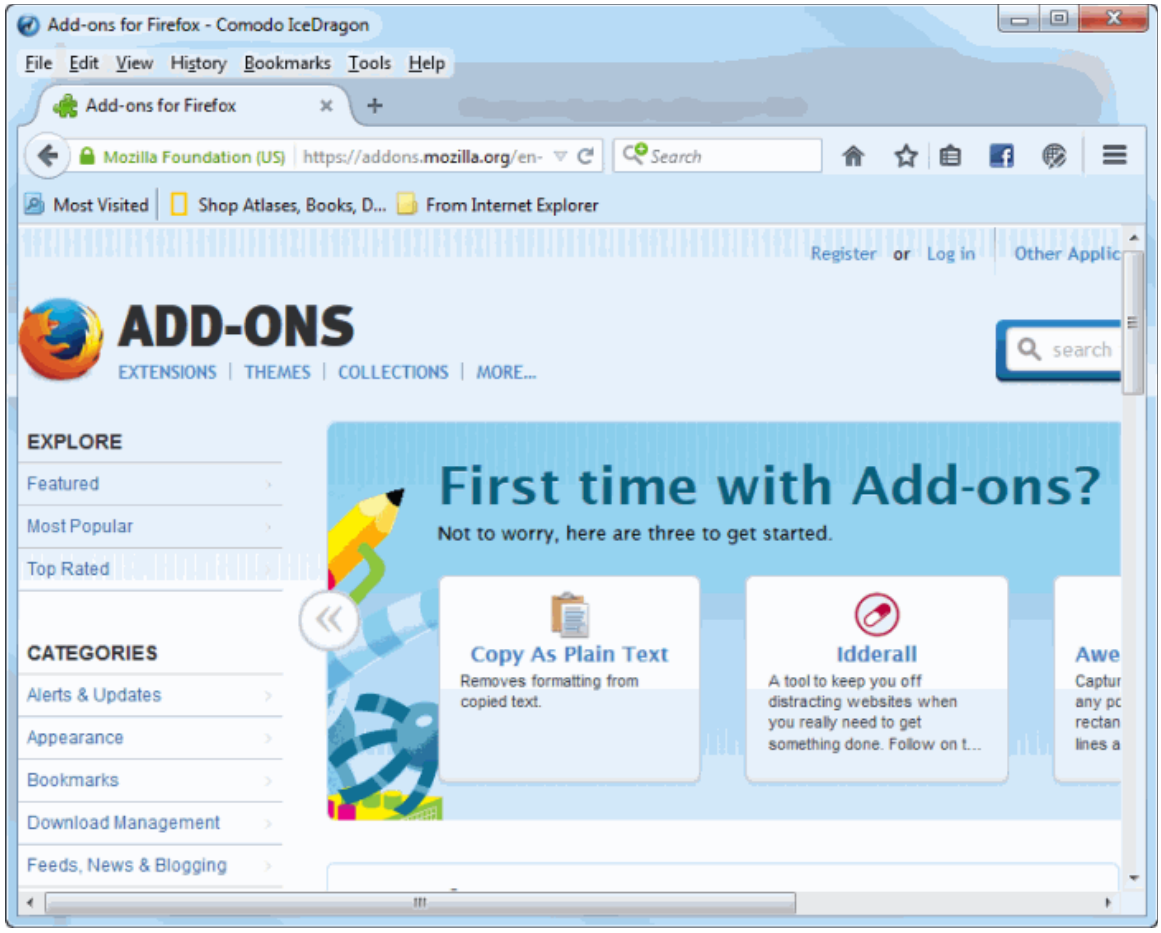
- This will open the 'Add-on Manager'. Next, click 'Get Add-Ons' from the left hand side navigation pane



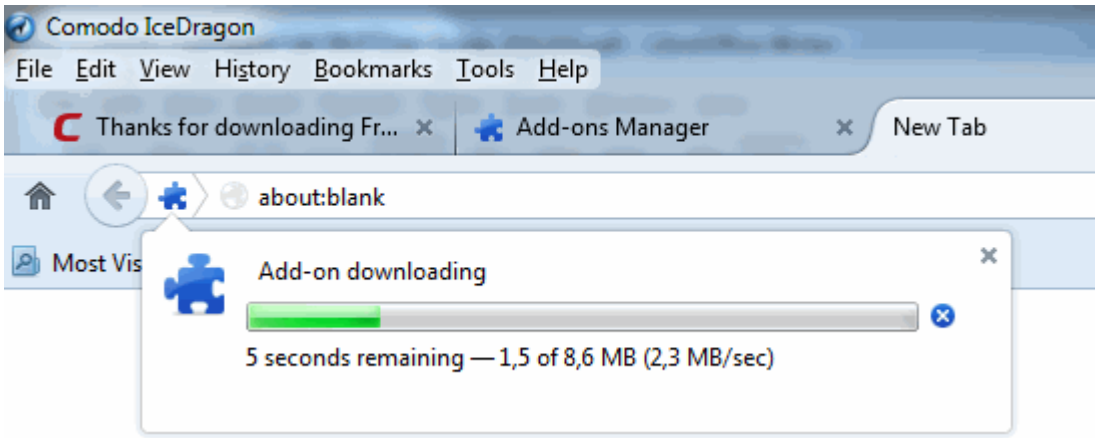
- Clicking on any Add-on in the 'Featured', 'Up & Coming' or 'Featured Personas' sections will take you to a detail page for that Add-on. The detail page will allow you to learn more about functionality and read reviews of the Add-on from fellow users and, of course, to download and install the Add-on.
- If you are searching for a specific type of Add-on, click Browse all add-ons from the bottom right of the page.



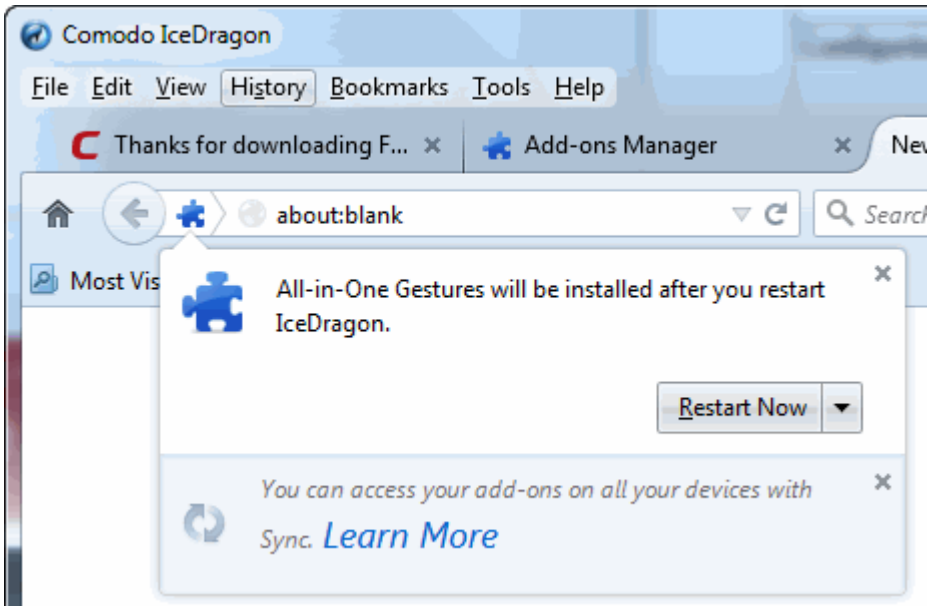
The 'Featured Add-ons' page will open in a new tab. You can search by category or by using the search box located at the top-right.



- Once you have chosen your Add-on, click the 'Download Now' button to install (all Firefox extensions are can be installed into IceDragon)
- The Add-on will be downloaded and a software installation dialog will be displayed:



- Click 'Install Now'. Some of the Add-ons will display the Install Now button after a countdown of 5 seconds.



- Some Add-ons may require your browser to be restarted for the installation to take effect.

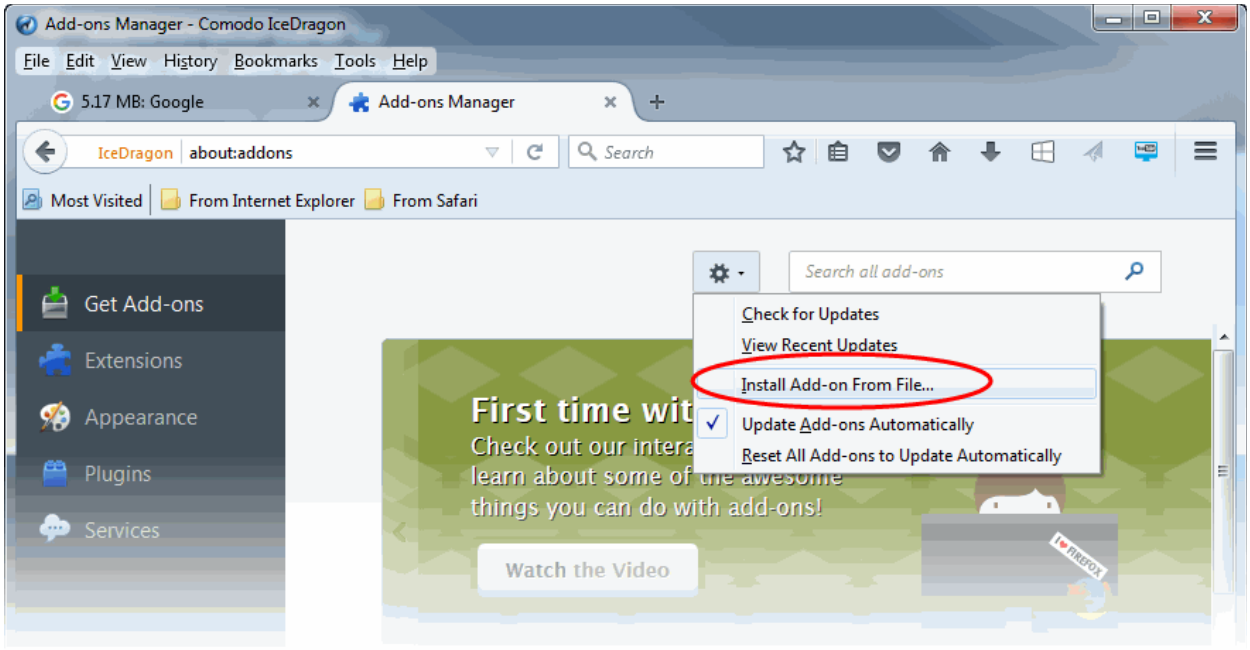
9.1.2. Installing Add-ons from Local Storage

If you have the installation files of add-ons stored in your hard-drive, you can install it to the browser.

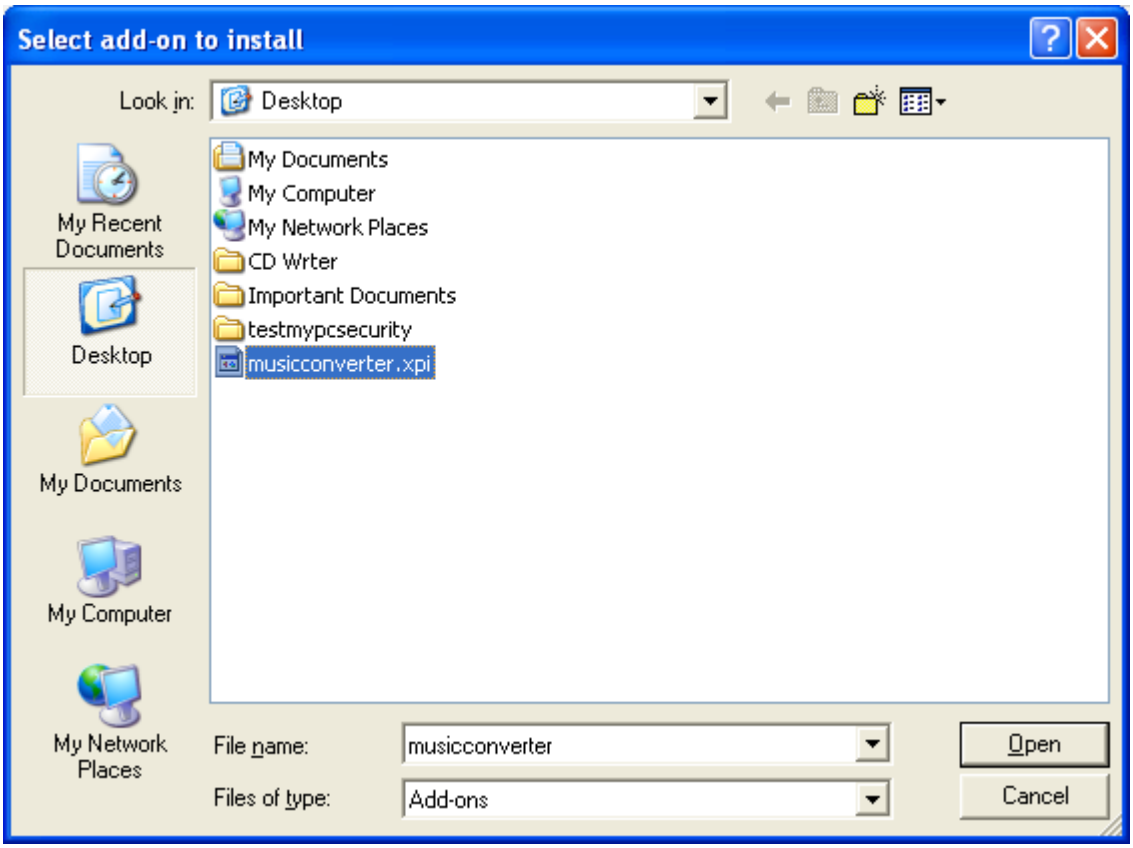
- Click the IceDragon menu at the top right corner
- Click 'Options' > 'Add-ons'

The 'Add-Ons Manager' page will open in a new tab.

- Click the gear icon at the top left of the screen.
- Select 'Install Add-on From File' from the options.

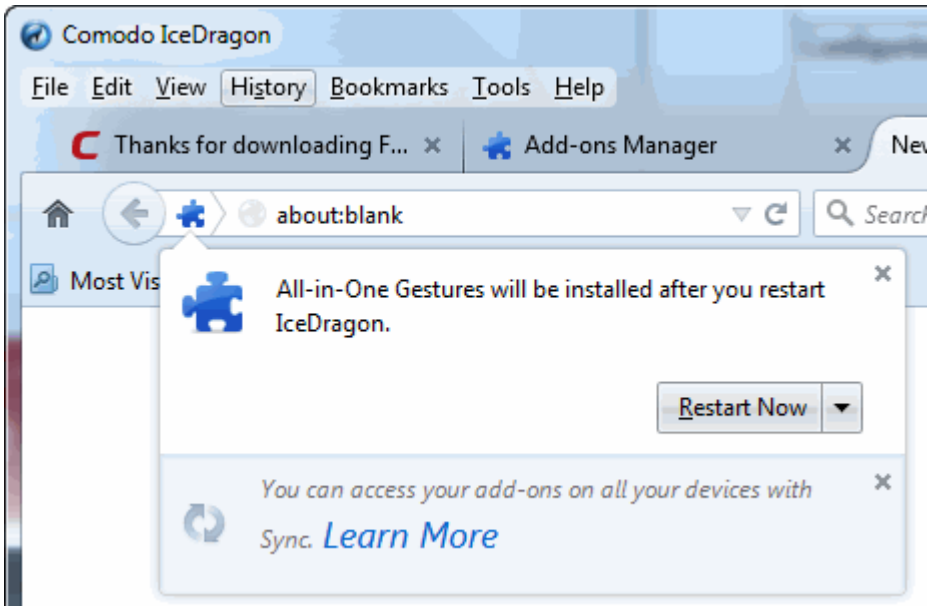


- Navigate to the location of the .xpi file of the addon you wanted to install.



- Click 'Open'

The Add-on will be installed. Some Add-ons may require your browser to be restarted for the installation to take effect. If it prompts you, click 'Restart Now'.



The browser will be restarted with the new add-on enabled.

9.1.3. Configuring Updates to Add-ons

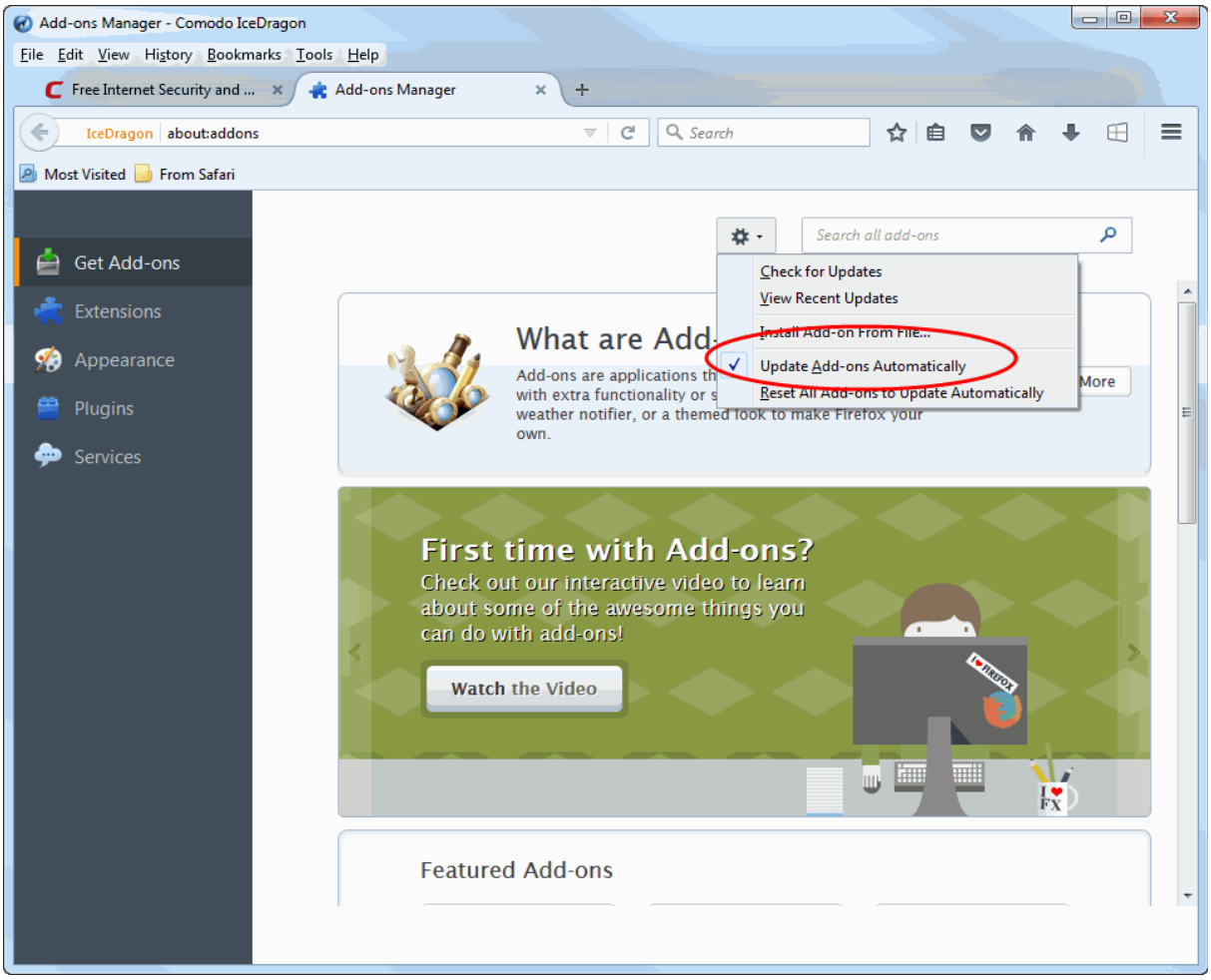
It is important to maintain your Add-Ons up-to-date to extract the maximum benefits from them. You can configure the browser to automatically check for the updates for the installed add-ons and install them.

To configure for updates

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options' > Add-Ons'

The' Add-Ons Manager' page will open in a new tab.

- Click the gear icon at the top left of the screen

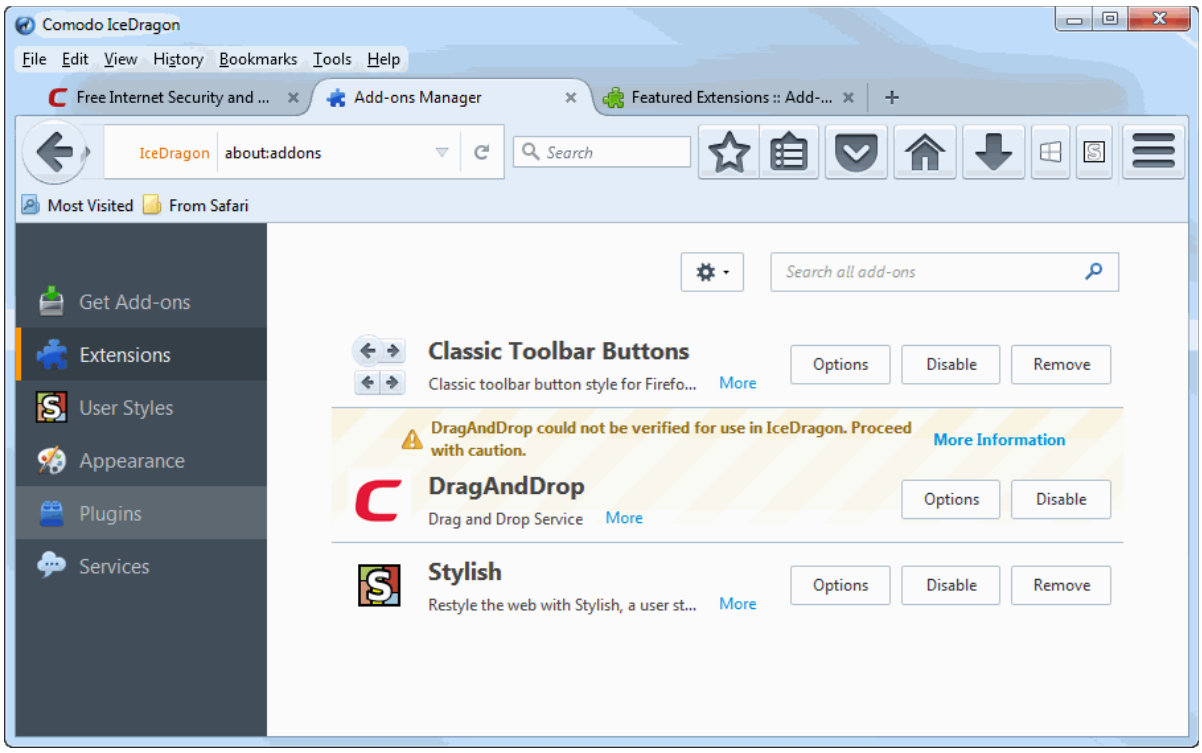


- To check the updated manually, click 'Check for Updates'
- To check the recently updated add-ons, click 'View Recent Updates'
- To make the browser to check for and update the add-on automatically, select 'Update Add-ons Automatically'

9.2. Managing Extensions

To view installed Extensions:

- Open the Add-ons interface by clicking the IceDragon menu located at the top right corner of the browser
- Click the 'Add-Ons'
- Click 'Extensions' from the left hand side navigation to view a list of all installed extensions.



- Click 'Extensions' from the left hand side navigation to view a list of all installed extensions.

Most Extensions allow you to configure and customize them as per your requirements.

- To configure an Extension, click 'Options' then edit preferences in the resulting dialog
- To turn an extension off, click the 'Disable' button
- To uninstall an extension, click the 'Remove' button

9.3. Managing Plugins

Plug-ins are a type of Add-on that enable IceDragon to handle Internet content in formats that the browser do not support. Examples include patented formats for documents, video, audio, online games, presentations and so on. Plugins to handle these formats of data are usually supplied by third-parties.

Popular plug-ins include:

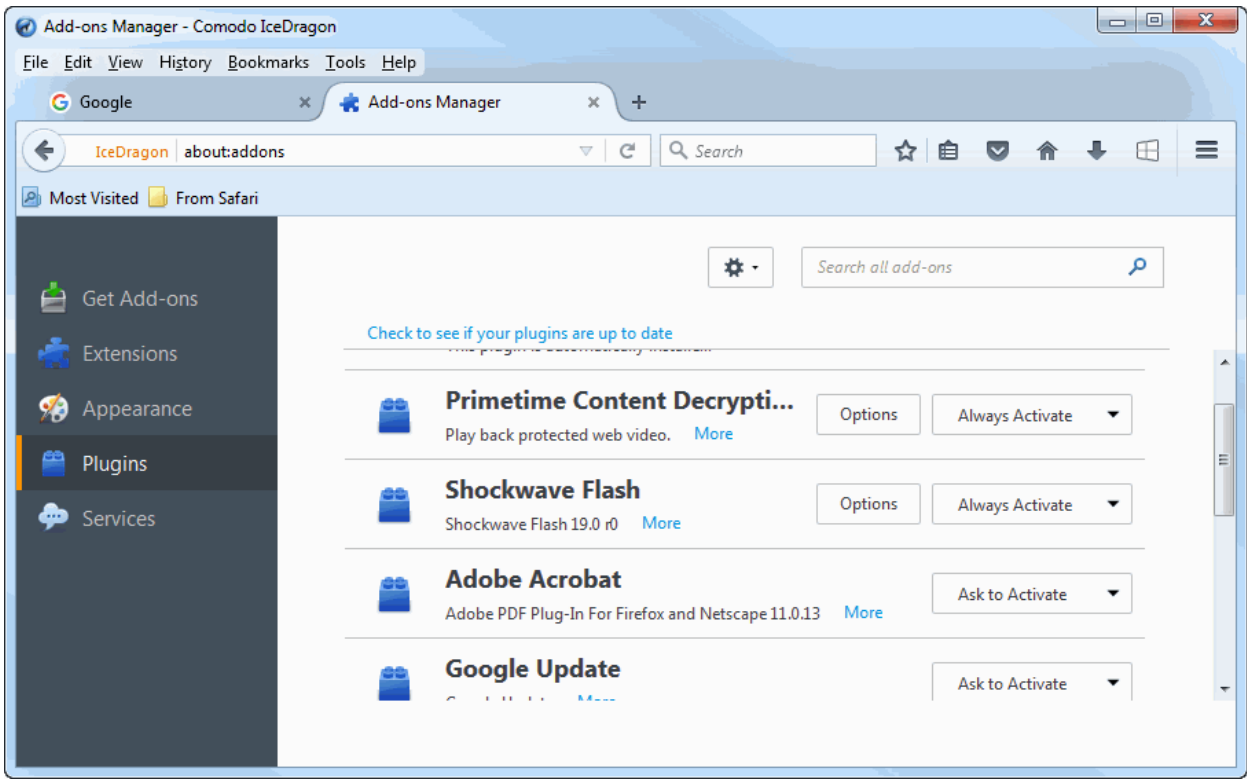
- Adobe Flash
- Windows Media Player
- Java
- Quicktime
- Adobe Reader
- Silverlight
- Adobe Shockwave

To view installed plug-ins

- Open the Add-ons interface by clicking the IceDragon menu located at the top right corner of the browser
- Click the Add-Ons

- Click 'Plugins' from the left hand side navigation

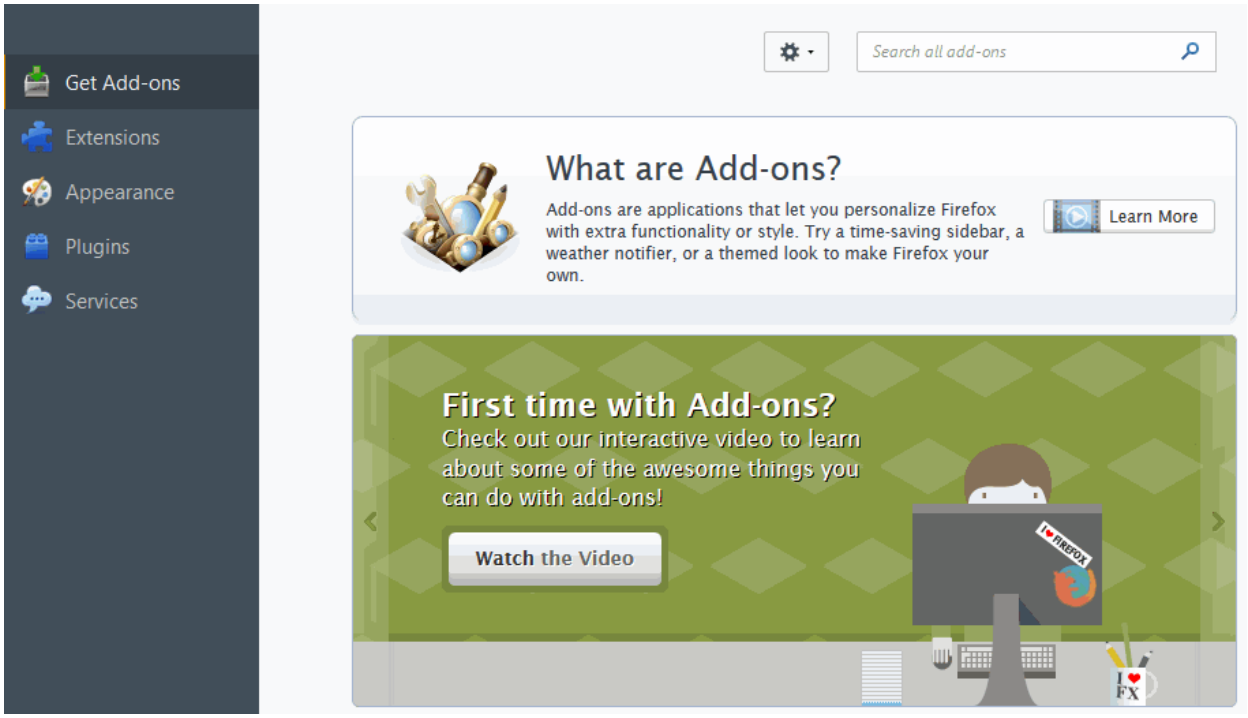
All Plugins installed on your browser will be displayed in a new tab.



- Click 'Check to see if your plugins are up-to-date' to instruct IceDragon to search for updates
- To see an overview of the Plugin, click the 'More' link next to the description of the Plugin
- Click the 'Disable' button if you wish to stop the plugin from running

9.4. Customizing the Appearance of IceDragon

Why not get creative? Personas and themes let you to change the entire look and feel of Comodo IceDragon.



Available through the 'Add-ons' manager interface, there are two main ways to customize IceDragon's appearance:

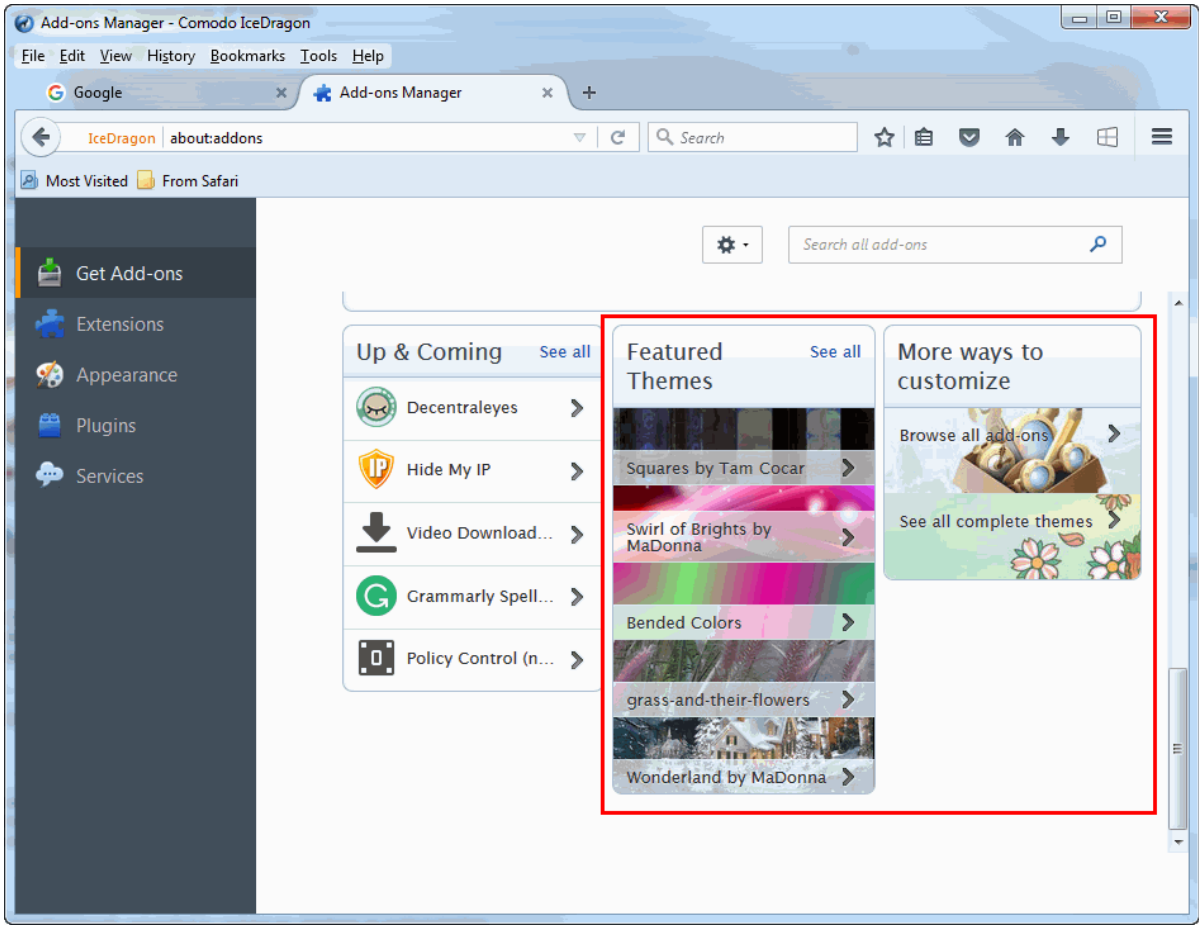
- 'Personas' - Lightweight themes that let you customize the menu bar and tabs with background images
- 'Themes' - Enables you to customize the whole browser window

Click the links below for more help:

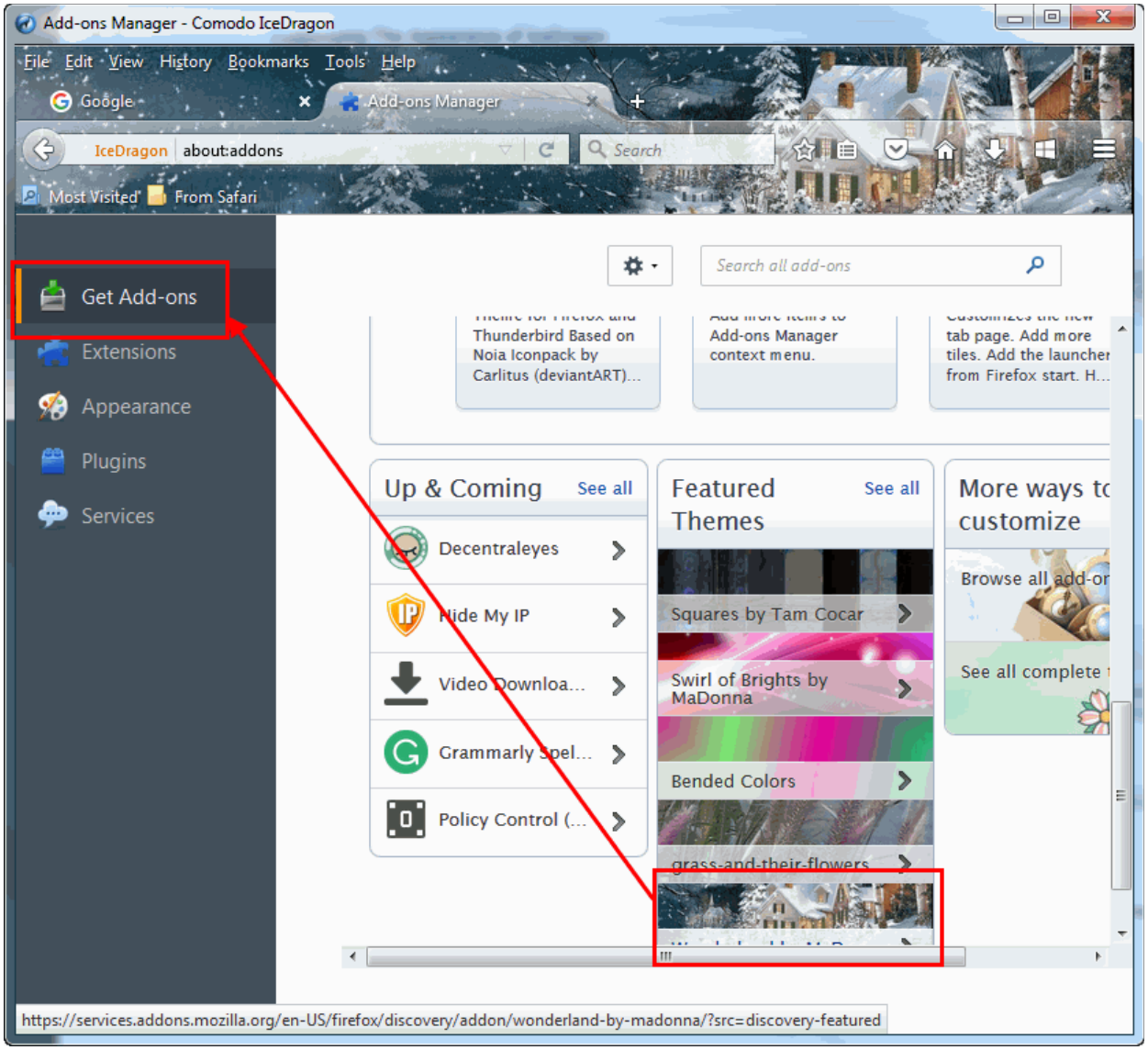
- **Downloading and installing Personas and Themes**
- **Managing Personas and Themes**

Downloading and installing Personas and Themes

- Click the IceDragon menu located at the top right corner of the browser
- Click the 'Add-ons' then 'Get Add-ons'
- A selection of Personas and Themes are available at the lower right of the 'Get Add-ons' page

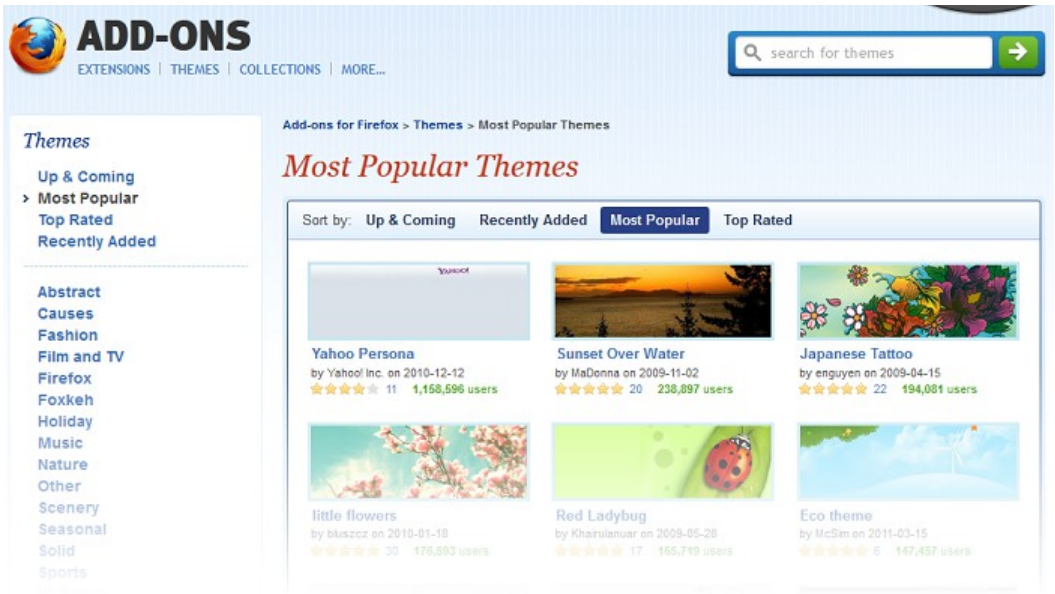


- To browse through all available Personas, click 'See all'
- To preview how a Persona will look, simply hover your mouse cursor over it.

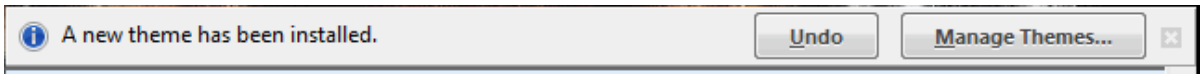


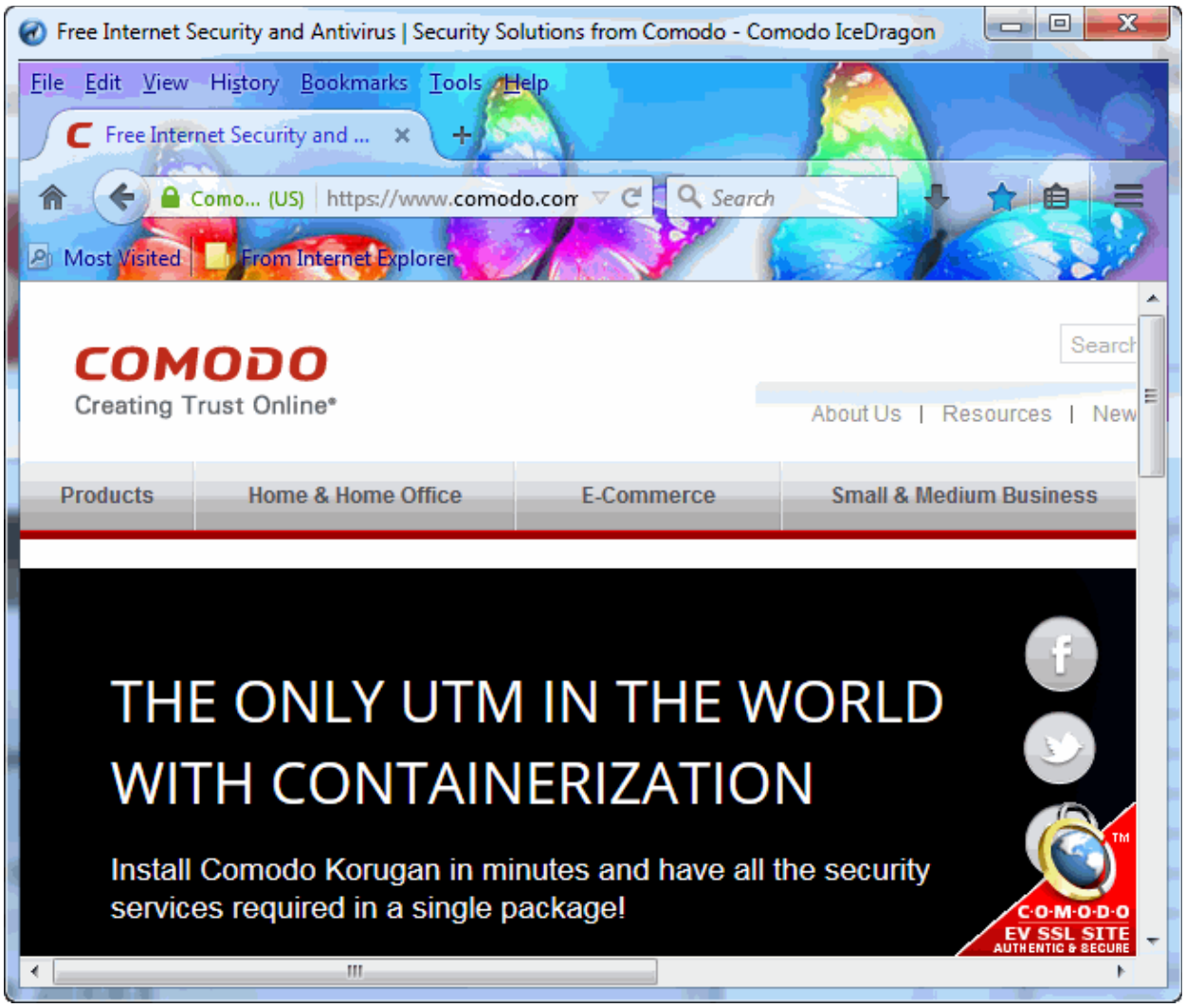
- If you decide you want to install a Persona, simply click on it then click the 'Add to Firefox' button from the Persona detail page.

- To browse available Themes, click 'See all themes' from the bottom right of the 'Get Add-ons' page. This will open a selection of popular themes and allow you to search for themes according to category.



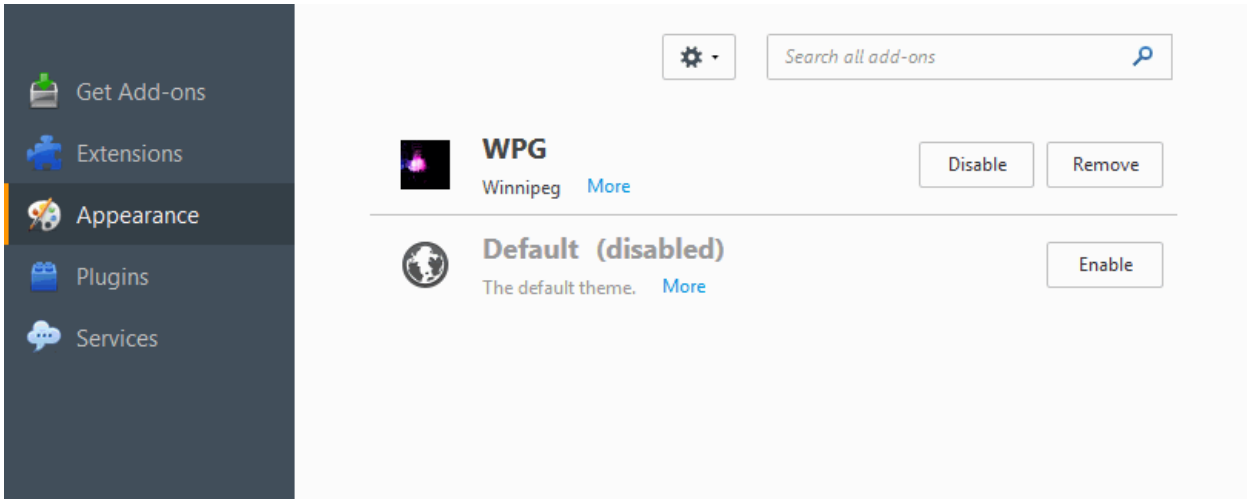
- Once you find a Theme that you like, click it to be taken to the Theme download page.
- Click 'Add to Firefox'. The theme will be downloaded and installed. After installation, click the 'Manage Themes' to activate it to apply your new Theme.
- After installation, click the 'Manage Themes' to activate it to apply your new Theme.



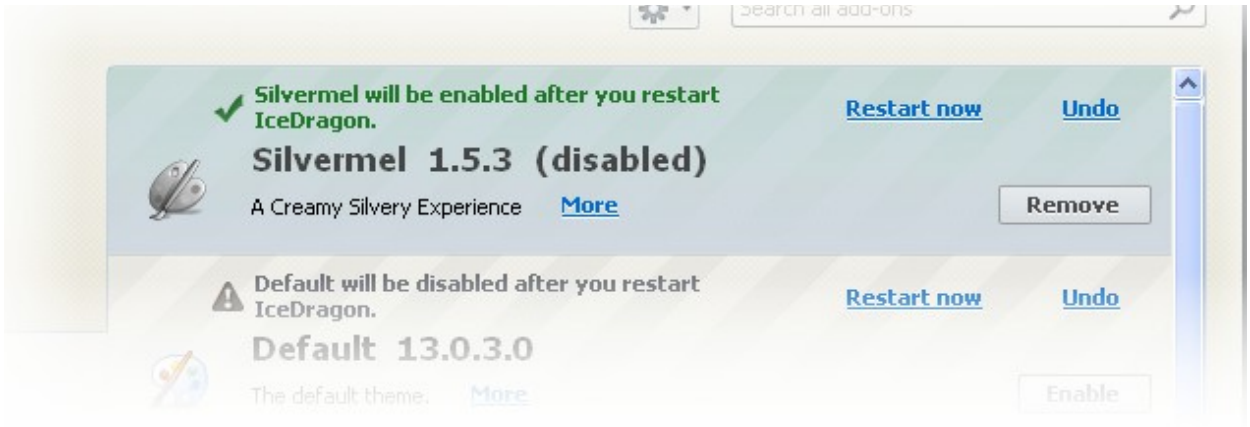


Managing Personas and Themes

You can easily choose which particular Persona or Theme you wish to use by clicking the 'Appearance' link in 'Add-ons Manager':



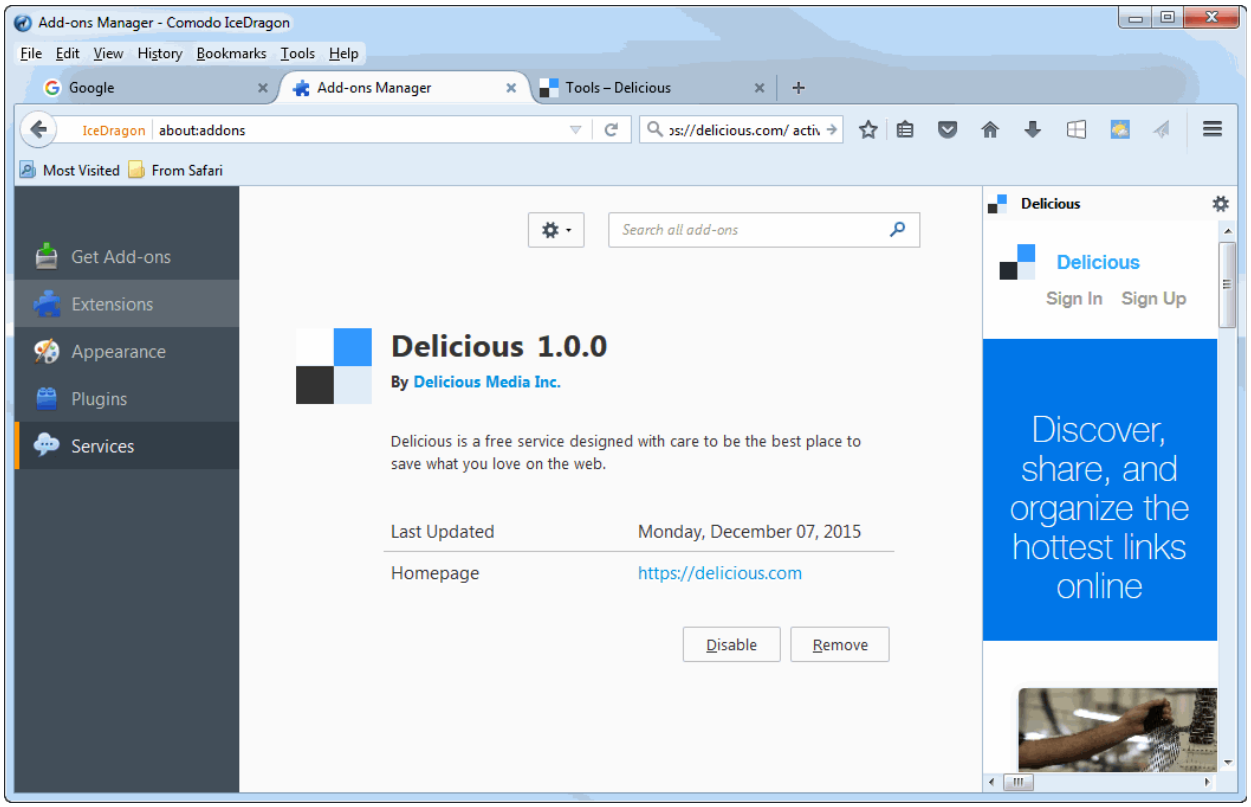
- To use a Theme or Persona, click 'Enable'. Personas will be applied immediately but Themes need the browser to be restarted.



- To restore the browser to default Theme, click 'Disable' in the row of currently applied Persona or Theme.
- To remove a Persona or Theme permanently, click 'Remove' in its row.

9.5. Managing Services

IceDragon Services enable easy access to online services such as messengers, trending articles and feeds from social networking and news sites like Cliqz or Delicious. Services which are enabled will be displayed in the side bar on the right of the IceDragon interface.



Refer to the following sections for detailed explanations on using the IceDragon Services:

- **Adding Services to IceDragon**
- **Disabling or enabling a Service**
- **Switching the currently displayed service**
- **Removing a service**

Adding Services to IceDragon

Currently, the following services are available with IceDragon:

- **Delicious**
- **Cliqz**

To add a service to IceDragon

- Visit the respective link given below from IceDragon and click the 'Turn On' or 'Activate Now' button on the page.

Delicious	:	**https://delicious.com/**
Cliqz		**https://mozsocial.cliqz.com/**

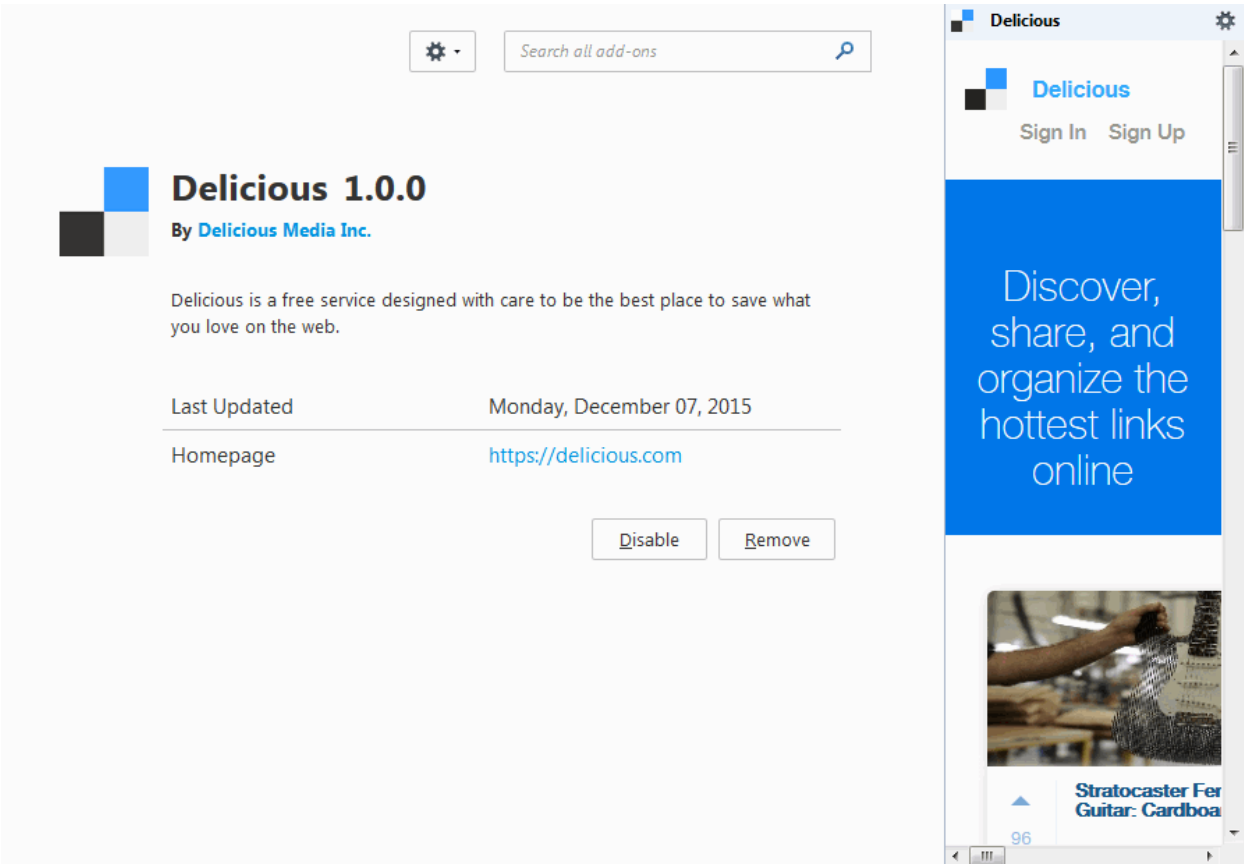
A confirmation dialog will be displayed.

- Click 'OK'.

The side bar of the respective service will be displayed. Repeat the process to add more services.

- To view the installed services, open the Add-ons interface by clicking the IceDragon button at the top left, click the 'Add-ons' menu entry and click 'Services' from the left hand side navigation.

To view more details on a service, double click on the service or click the 'More' link on the selected service.



Disabling and Enabling a Service

To disable a service

- Open the Services panel as explained above
- Select the service to be disabled and click the 'Disable' button

To enable a service

- Open the Services panel as explained above
- Select the disabled service to be enabled and click the 'Enable' button

Switching the currently displayed service

- To switch to a service different from the currently displayed service, enable required service and disable the unwanted services as explained above.

Removing a Service

- Open the Services panel as explained above
- Select the service to be removed and click the 'Remove' button

10. Tools and Other Features

Comodo IceDragon has a number of built-in tools like webpage scanning tool, spell checker and so on. You can add as many tools as you like as add-ons to the browser. Please refer to Installing Add-ons for more details on adding additional tools. This section explains on general configuration of the built-in tools and other features.

Click the links below for more help:

- **Customizing applications for opening different file types**

- **Searching within page content**
- **Form autofill**
- **Keyboard and mouse shortcuts for Comodo IceDragon**

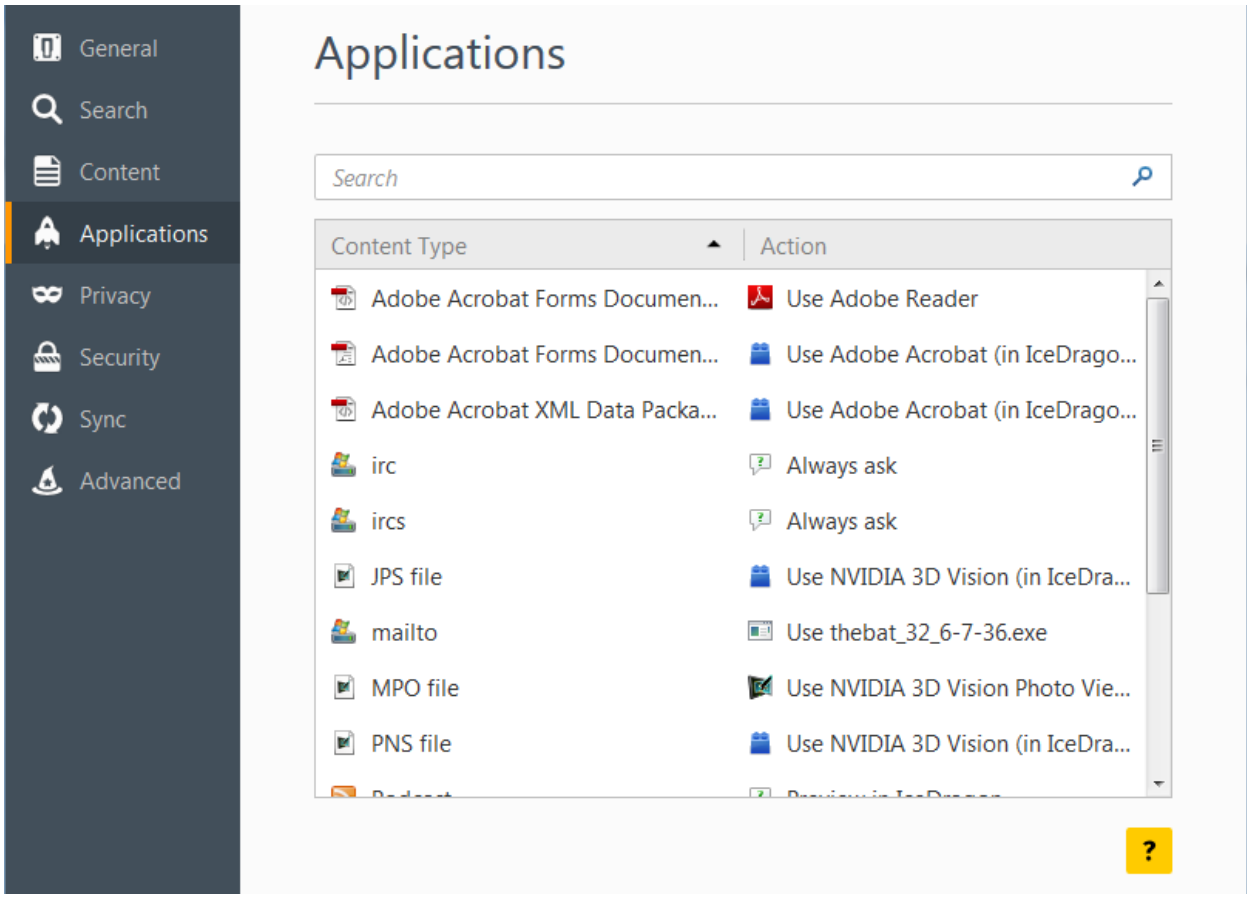
10.1. Customizing Applications for Opening Different File Types

Comodo IceDragon has several built-in plug-ins to handle Internet content of different types like audio files, video files, play lists, presentations and so on. To complement that, it also enables you to add additional plug-ins from third-parties. You can configure the browser to instruct which plug-in or application installaed in your system to handle different kinds of Internet content.

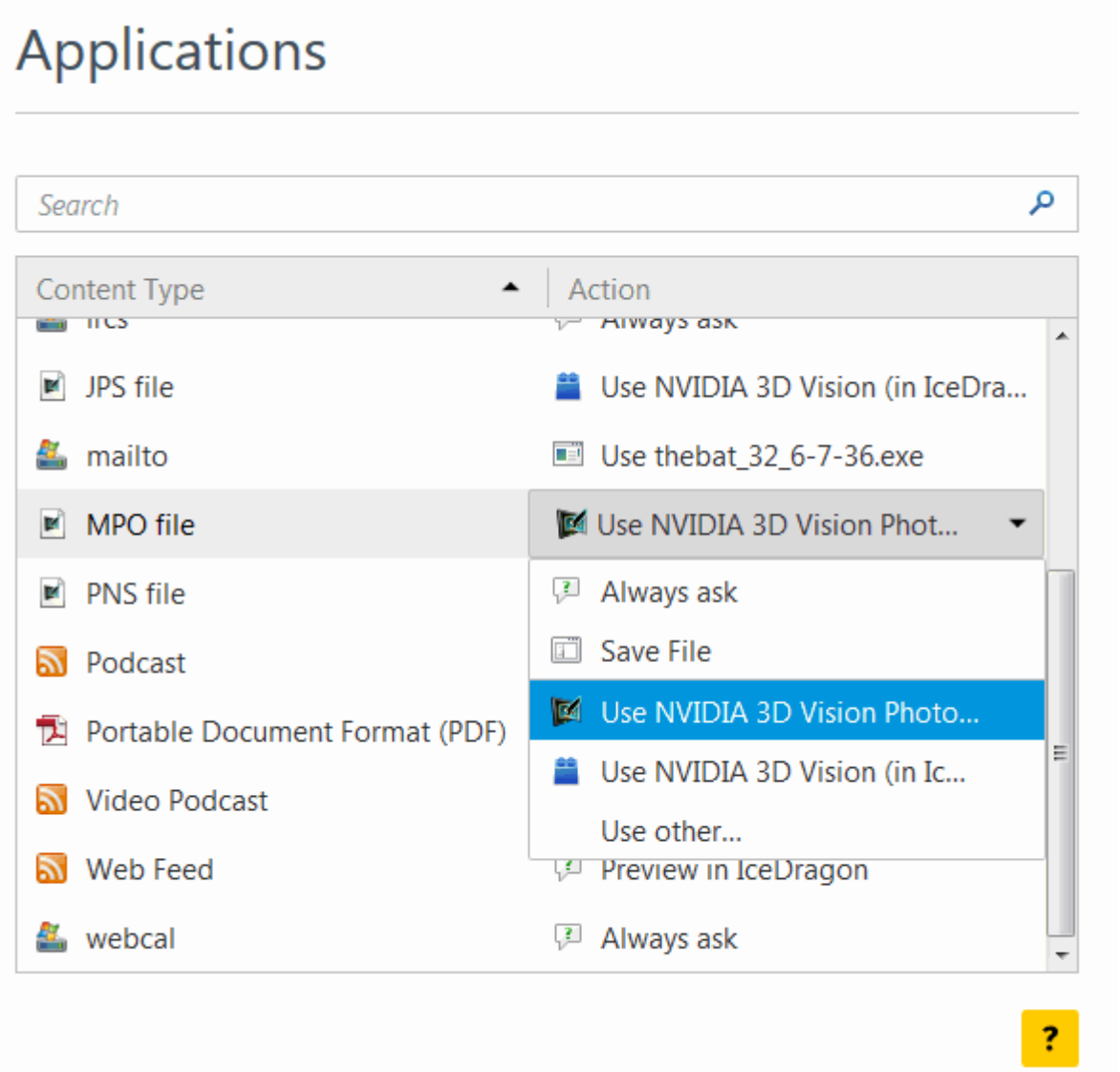
To customize applications

- Click the IceDragon menu located at the top right corner of the browser
- Click the Options menu > 'Applications' tab

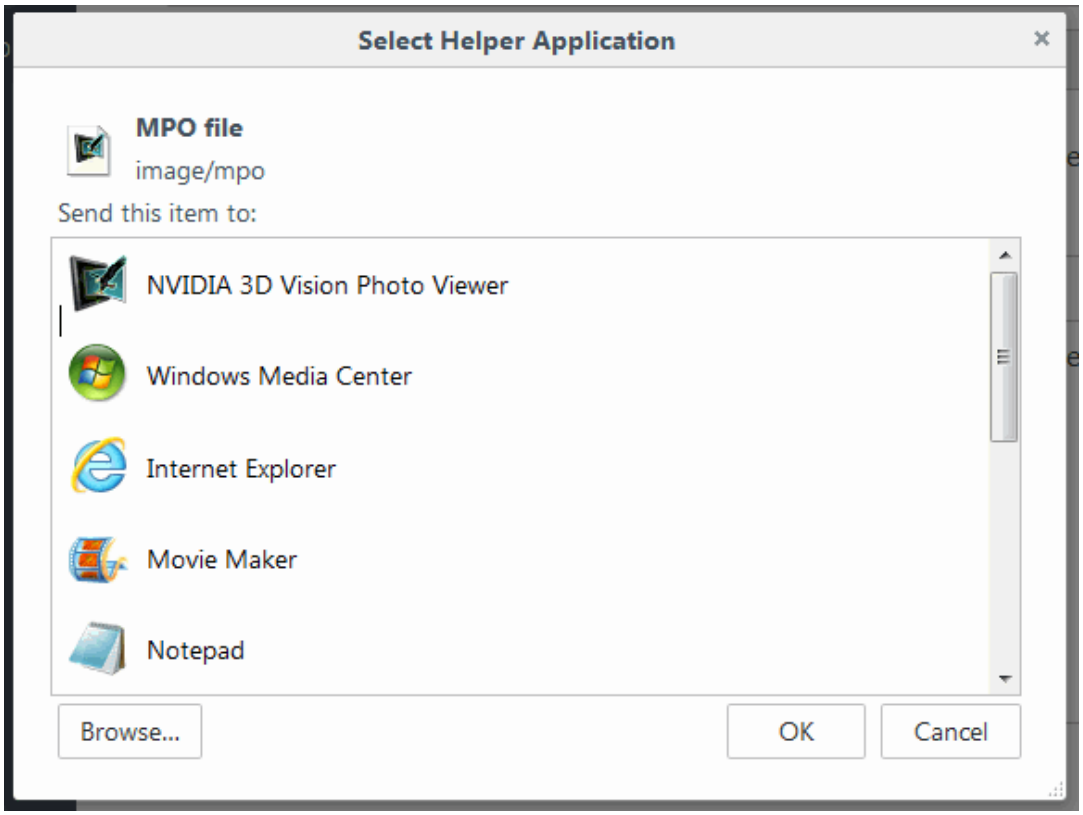
A list of Different Internet content types and their default applications will be displayed.



- To change the application for a content type, click on it. Click the drop-down arrow at the right end and select the application of your choice to handle the content type from the drop-down.

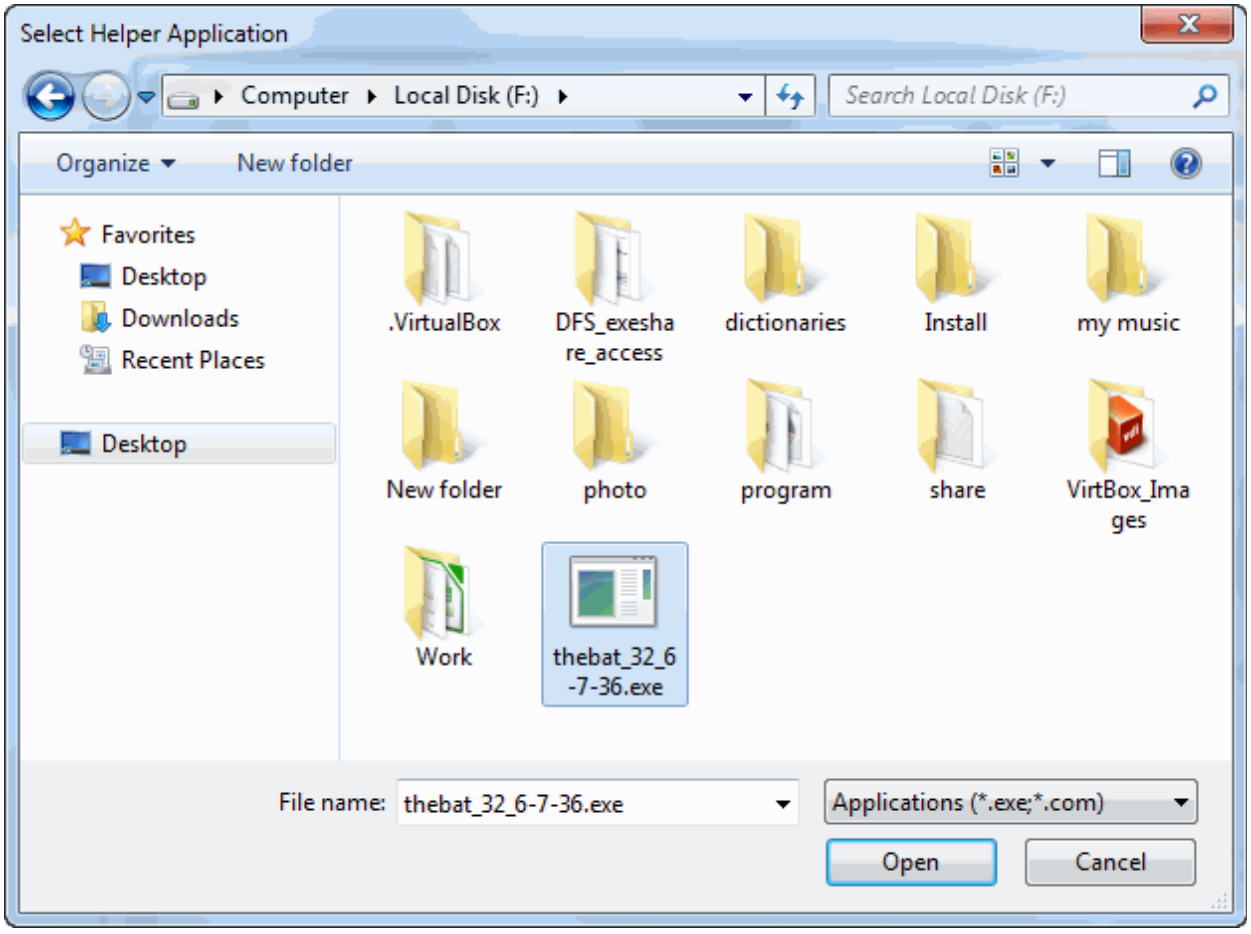


- If the application to open the specific content type is not available in the drop-down, click 'Use Other'.

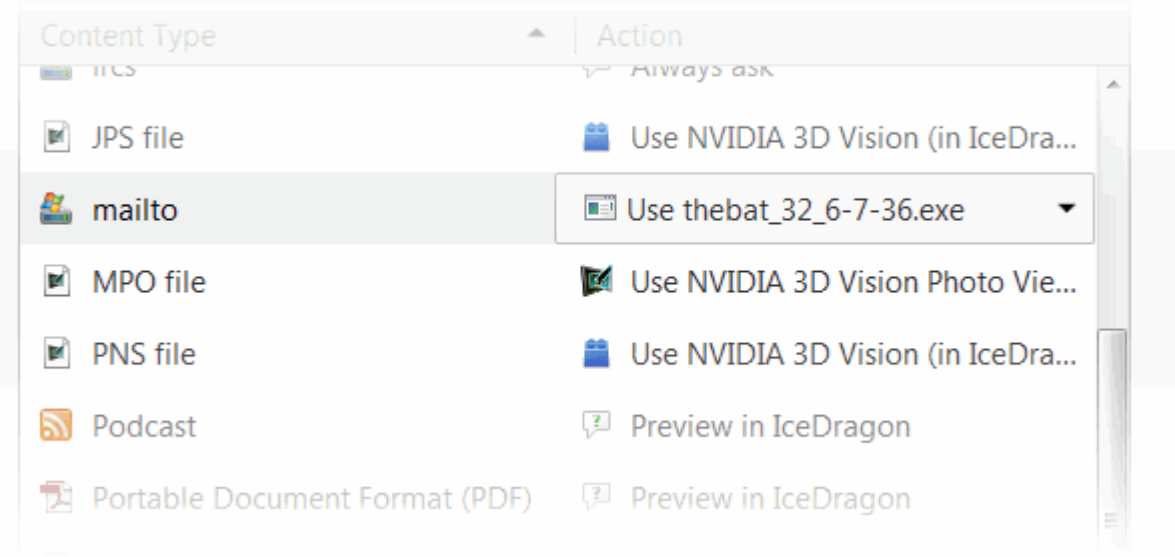


The list of applications installed on your system will be displayed.

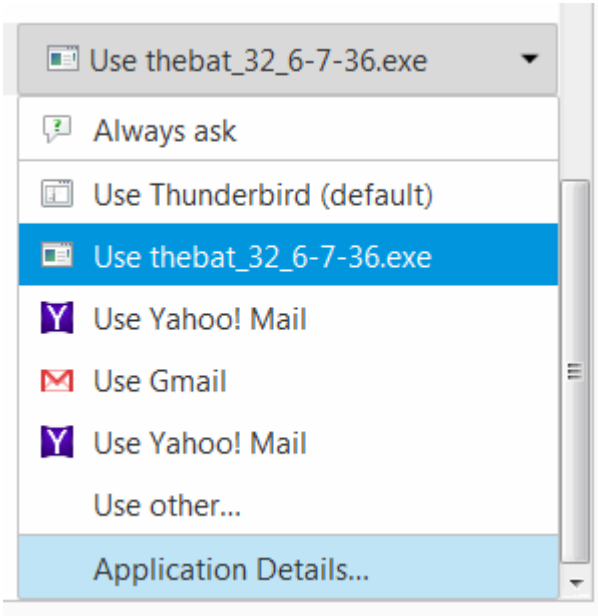
- Select the application from the 'Select Helper Application' dialog and click OK. If you had installed the application in a location other than c:\program files, click 'Browse' and navigate to the location where you have installed the application and click 'Open'.



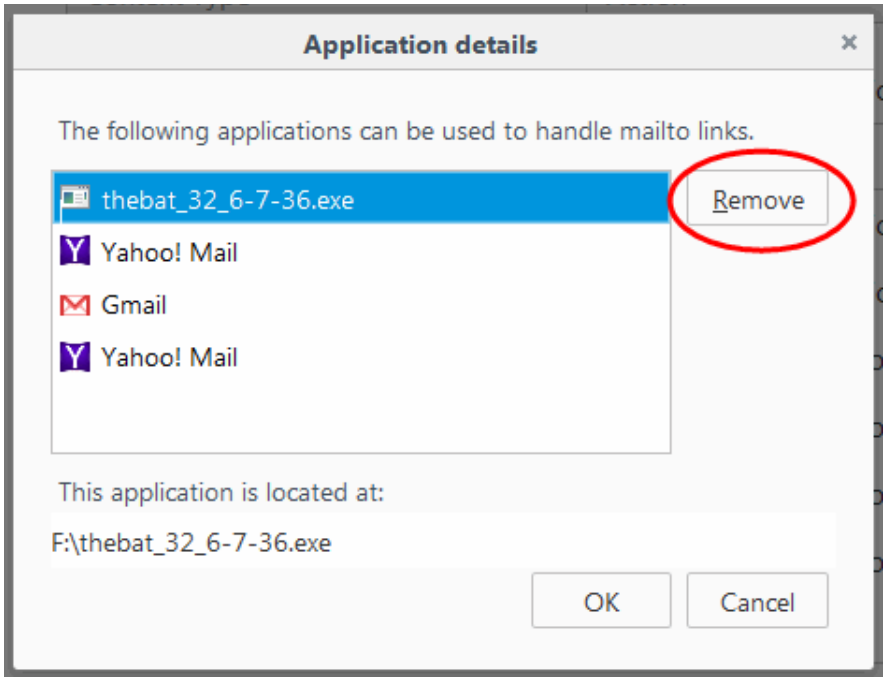
The application will be set for the content type selected.



- Click 'OK' in the 'Options' dialog.
- To remove the custom application from the list in the drop-down
  - Select 'Application details' from the drop-down



  - Select the application click 'Remove' from the 'Application details' dialog



- Click 'OK'.

10.2. Searching within Page Content

You can search for a specific word or phrase in the webpage you are viewing by using the Find feature. Also, you can configure the browser to launch an auto-search when you start typing a keyword or phrase when you are browsing a webpage.

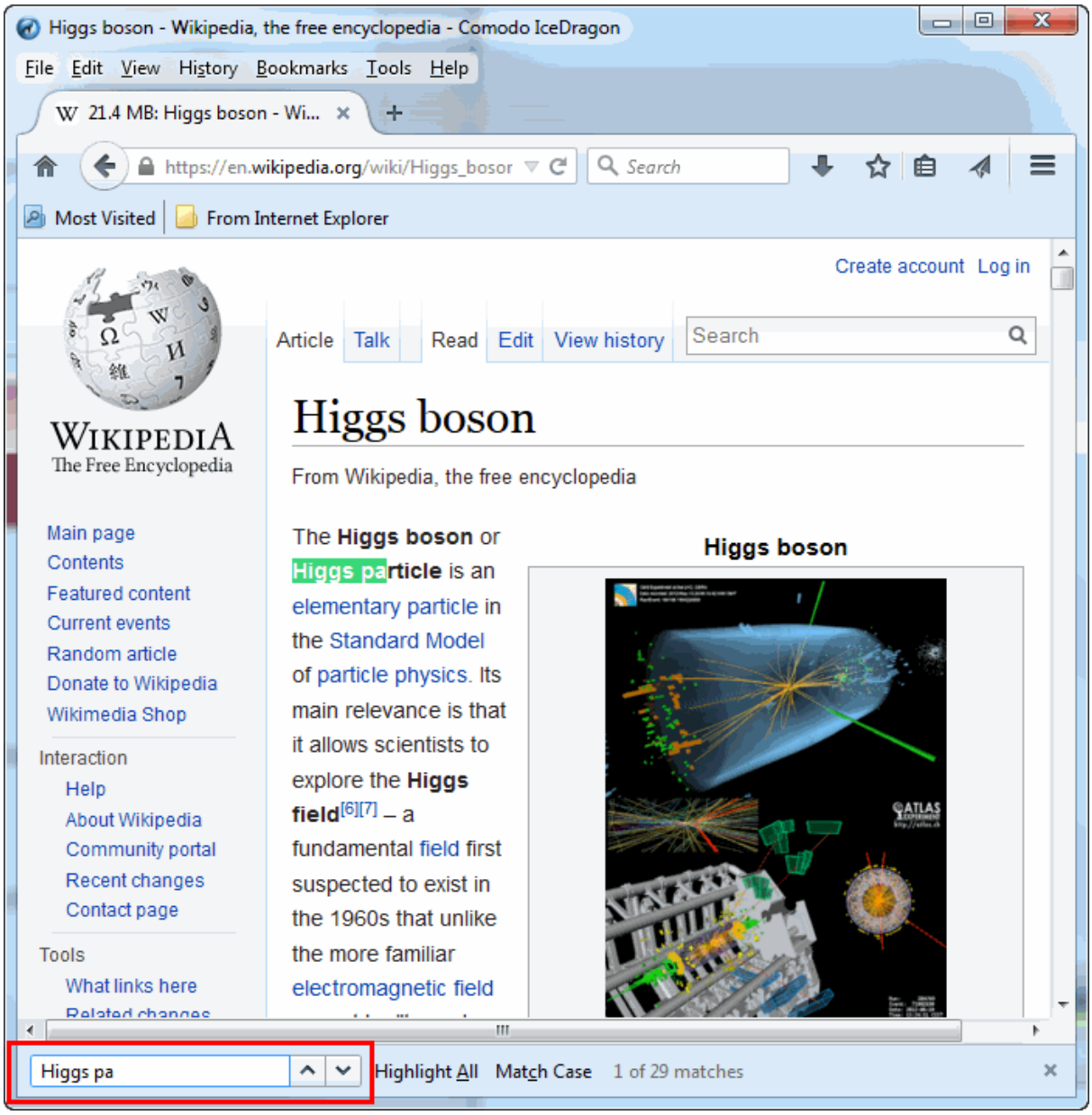
Click the links below for more help:

- **Search using 'Find' feature**
- **Launching auto-search**

Searching using 'Find' feature

- Click the IceDragon button menu located at the top right corner of the browser
- Click Find or press Ctrl+F from your keyboard to search for a word or phrase in the page you are viewing
- A Find field will appear in the bottom-left of the window
- Type the keyword/phrase in the 'Find' field

The first occurrence of the keyword in the page will be shown highlighted in green.



- To search for the successive occurrences, click Next
- To highlight all the occurrences of the keyword/phrase, click 'Highlight all'
- To narrow down your search only for the keyword/phrase in the same case (upper and lower case) of characters you type-in, select 'Match case'
- To search for previous occurrences from the currently highlighted one, click 'Previous'

Launching Auto-search

For the browser to launch an auto-search when you start typing a keyword, you need to configure the security settings accordingly.

To configure for auto-search

- Click the IceDragon button menu located at the top right corner of the browser
- Click 'Options' > 'Advanced' tab
- Click 'General' tab from the 'Advanced' interface
- Select the 'Search for text when I start typing' checkbox

The browser displays a 'Quick Find' bar at the bottom of the window when you start typing a search keyword and

shows the search results within the currently open webpage.

10.3. Form Autofill

Comodo IceDragon can keep records of your entries into text fields of various webforms and webpages like login screens, entry forms and search engines. When you visit the same page next time, and start typing the first few letters in a field, the browser will display the previous entries you made in the same field during your previous attempts, as a drop-down and allows you to re-use an entry by clicking it.

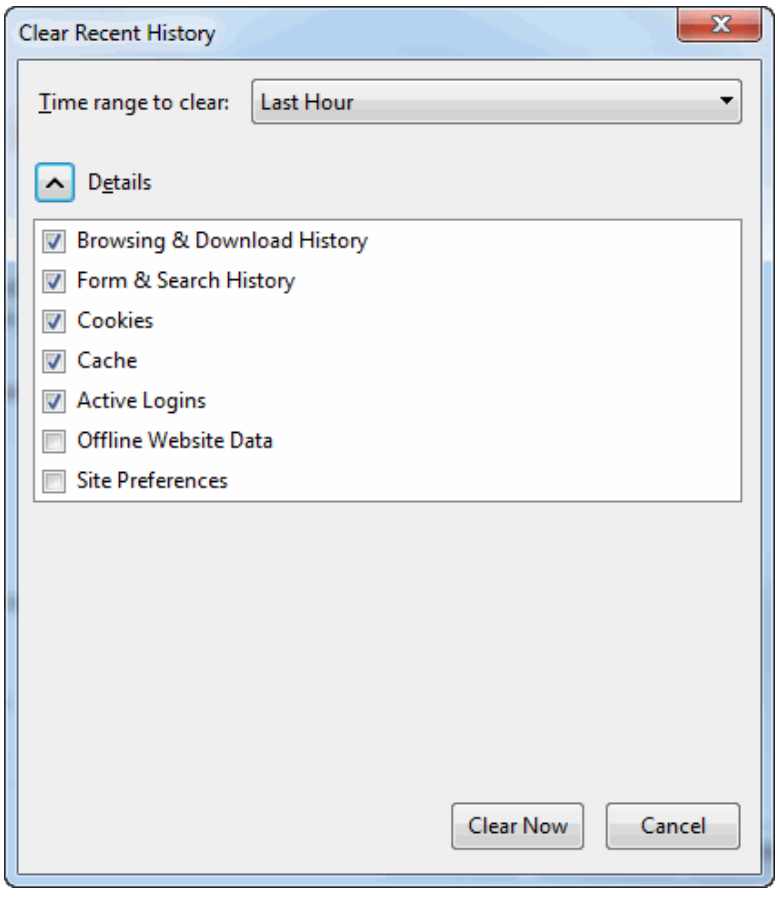
Tip: You can click on a blank field before typing any characters, to see all the entries you made previously and select one for re-entering.

This section explains on how to manage the form autofill feature. Click the links below for more help:

- **Deleting all the stored form entries at once**
- **Deleting individual entries**
- **Configuring the browser for form entries**

Deleting All the Stored Form Entries

- Click the IceDragon menu at the top right corner:
- Click 'History' > Clear Recent History and click 'Details' in the 'Clear Recent History' dialog
- Select the time range for deleting the history details from the Time range to clear drop-down



- Make sure that the 'Form & Search History' checkbox is selected
- Click 'Clear Now'.

Deleting Individual Entries

You can delete selected form entries that you have entered before, in case you do not want other users of your computer to view them.

To delete individual entries

- Visit the webpage/webform for which you want to remove a previously entered form entry
- Click on the field

All the entries entered previously in that field are displayed as a drop-down.

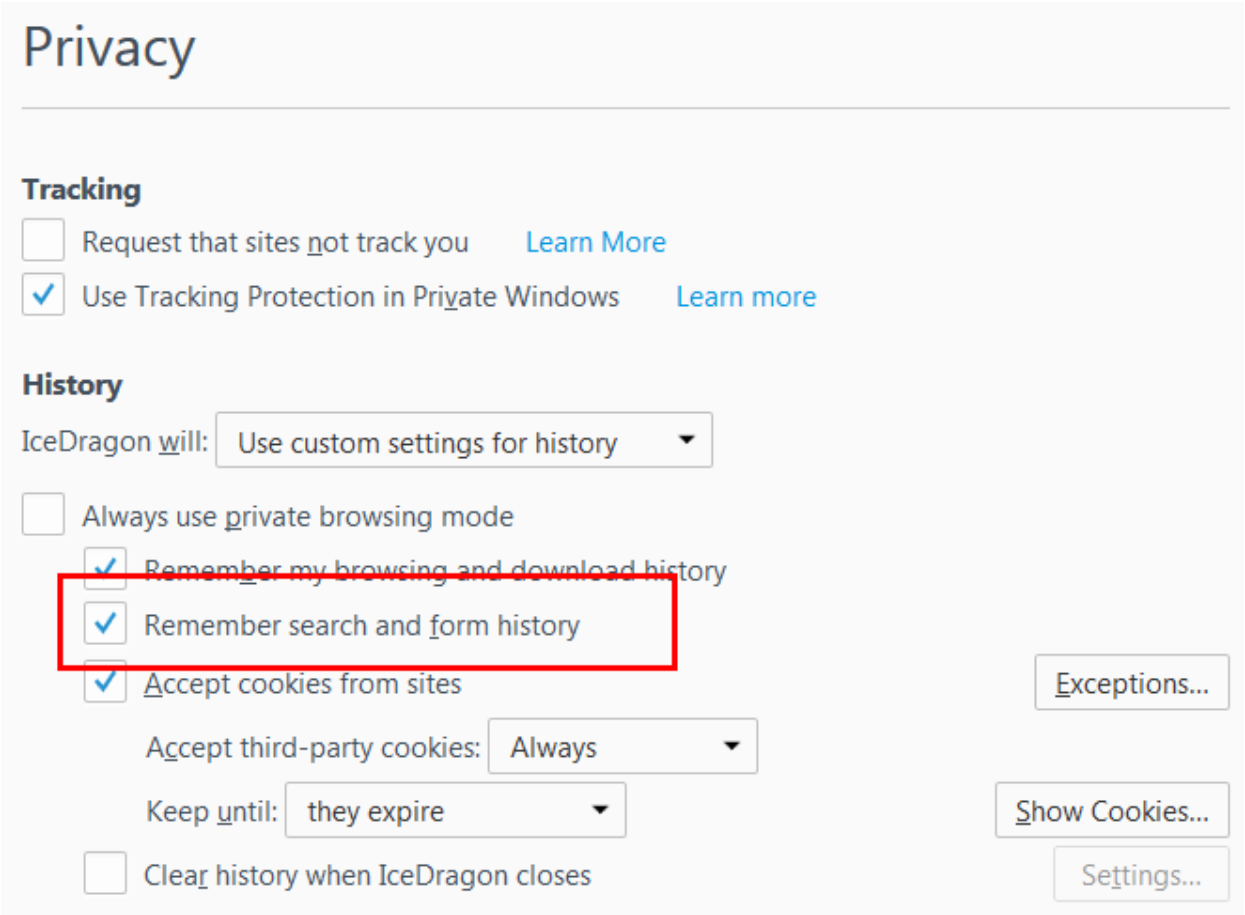
- Use the down or up arrow in your keyboard to reach the entry to be deleted and press Delete key from your keyboard
- Repeat the process for deleting several entries

Configuring the Browser for Form Entries

You can configure IceDragon to whether or not to remember the form entries as per your choice

To configure for form entries

- Click the IceDragon menu located at the top right corner of the browser
- Click Options > 'Privacy' tab



- To allow the browser to remember the form entries, select 'Remember history' from 'IceDragon will' drop-down under history.
- To stop IceDragon from remember the form entries, select 'Use custom settings for history' from 'IceDragon will' drop-down under history.
- Deselect 'Remember search and form history' checkbox.

10.4. Keyboard and Mouse Shortcuts

You can access and execute most of the Comodo IceDragon features and commands quickly through Keyboard and Mouse shortcuts. Click the links below to jump to the requires section directly.

- Mouse Shortcuts
- Keyboard Shortcuts
  - Navigating Through Webpages
  - Viewing , Printing and Saving Current Page
  - Editing Options
  - Search Options
  - Windows and Tabs
  - Viewing History
  - Bookmark Options
  - Tools
  - Miscellaneous
  - Audio/Video Shortcuts

Mouse Shortcuts

Command	Shortcut
Back	Shift+Scroll Down
Forward	Shift+Scroll up
Zoom In	Ctrl+Scroll up
Zoom Out	Ctrl+Scroll down
Close Tab	Middle-click on Tab
Open link in new Tab	Middle-click on Link
New Tab	Double-Click on Tab Bar
Open in Background tab*	Ctrl+Left-click link Middle-click link
Open in Foreground tab*	Ctrl+Shift+Left-click Shift+Middle-click
Open in New Window	Shift+Left-click link
Copy Tab or Bookmark	Ctrl+Drag tab
Reload (override cache)	Shift+Reload button
Save Page As	Alt+Left-click
Scroll line by line	Alt+Scroll

* 'Open in Foreground tab and 'Open in Background tab' shortcuts will work only if the 'When I open a link in a new

tab, switch to it immediately' checkbox is selected in the 'Tabs settings' panel accessible by clicking 'Tools' > 'Options' > 'Tabs'.

Keyboard Shortcuts

Click the links below to jump to the section directly:

- Navigating Through Webpages
- Viewing , Printing and Saving Current Page
- Editing Options
- Search Options
- Windows and Tabs
- Viewing History
- Bookmark Options
- Tools
- Miscellaneous
- Audio/Video Shortcuts

Navigating Through Webpages	
Command	**Shortcut**
Back	Alt + left arrow Backspace
Forward	Alt + right arrow Shift + Backspace
Home	Alt + Home
Open file	Ctrl + O
Reload	F5 Ctrl + R
Reload (Override cache)	Ctrl + F5 Ctrl + Shift + R
Stop loading	Esc

Viewing, Printing and Saving Current Page	
Command	**Shortcut**
Go to Bottom of Page	End
Go to Top of Page	Home
Move to Next Frame	F6
Move to Previous Frame	Shift + F6
Print	Ctrl + P

Save Page As	Ctrl + S
Find	Ctrl + F
Zoom In	Ctrl + +
Zoom Out	Ctrl + -
Zoom Reset	Ctrl + 0

Editing Options	
Command	**Shortcut**
Copy	Ctrl + C
Cut	Ctrl + X
Delete	Del
Paste	Ctrl + V
Redo	Ctrl + Y
Select All	Ctrl + A
Undo	Ctrl + Z

Search Options	
Command	**Shortcut**
Find within page	Ctrl + F
Find Again	F3 Ctrl + G
Find Previous	Shift + F3 Ctrl + Shift + G
Quick Find within link-text only	'
Quick Find	/
Close the Find or Quick Find bar	Esc (When Find and Quick Find bar is active)
Search bar - Easily choose your favorite search engine	Ctrl + K
Select or Manage Search Engines	Alt + Up arrow Alt + Down arrow F4 (When Search bar is active)

Windows and Tabs	
Command	**Shortcut**

Close Tab	Ctrl + W Ctrl + F4 These shortcuts will not work for Extensions and Add-Ons tabs
Close Window	Ctrl + Shift + W Alt + F4
Move Foreground Tab to Left	Ctrl + Left arrow Ctrl + Up arrow
Move Foreground Tab to Right	Ctrl + Right arrow Ctrl + Down arrow
Move Foreground Tab to first position	Ctrl + Home
Move Foreground Tab to last position	Ctrl + End
New Tab	Ctrl + T
New Window	Ctrl + N
Next Tab	Ctrl + Tab Ctrl + Page Down
Open Address in New Tab	Alt + Enter
Previous Tab	Ctrl + Shift + Tab Ctrl + Page Up
Undo Close Tab	Ctrl + Shift + T
Undo Close Window	Ctrl + Shift + N
Select Tab 1 to 8	Ctrl + 1 to 8
Select Last Tab	Ctrl + 9
Tab Groups View	Ctrl + Shift + E
Close Tab Groups View	Esc
Next Tab Group	Ctrl + `
Previous Tab Group	Ctrl + Shift + `

Viewing History	
Command	**Shortcut**
History sidebar	Ctrl + H
Library window (History)	Ctrl + Shift + H

Bookmark Options	
Command	**Shortcut**
Bookmark All Tabs	Ctrl + Shift + D
Bookmark This Page	Ctrl + D
Bookmarks sidebar	Ctrl + B Ctrl + I
Library window (Bookmarks)	Ctrl + Shift + B

Bookmark Options	
Command	**Shortcut**
Bookmark All Tabs	Ctrl + Shift + D
Bookmark This Page	Ctrl + D
Bookmarks sidebar	Ctrl + B Ctrl + I
Library window (Bookmarks)	Ctrl + Shift + B

Tools	
Command	**Shortcut**
Downloads	Ctrl + J
Add-ons	Ctrl + Shift + A
Web Console	Ctrl + Shift + K
Inspect	Ctrl + Shift + I
Scratchpad	Shift + F4
Style Editor	Shift + F7
Page Source	Ctrl + U
Error Console	Ctrl + Shift + J
Toggle Private Browsing - Browse the web without storing history, form entries and so on	Ctrl + Shift + P
Remove recent browsing, search and download history	Ctrl + Shift + Del

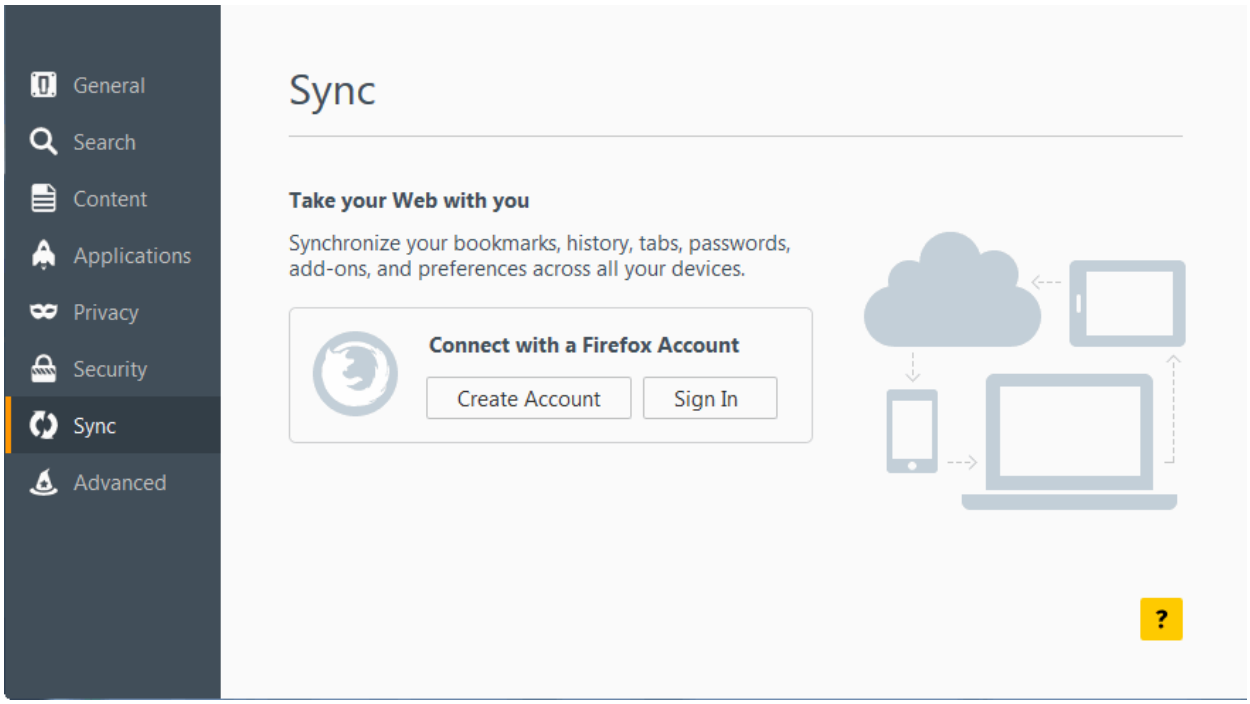
Miscellaneous	
Command	**Shortcut**
Complete .com Address	Ctrl + Enter

Complete .net Address	Shift + Enter
Complete .org Address	Ctrl + Shift + Enter
Delete Selected Autocomplete Entry	Del
Toggle Full Screen	F11
Toggle Menu Bar (when hidden)	Alt F10
Show/Hide Add-on Bar	Ctrl + /
Caret Browsing	F7
Select Location Bar	Alt + D Ctrl + L

Audio and Video Shortcuts	
Command	**Shortcut**
Toggle Play / Pause	Space bar
Decrease volume	Down Arrow
Increase volume	Up Arrow
Mute audio	Ctrl + Down Arrow
Unmute audio	Ctrl + Up Arrow
Seek back 15 seconds	Left Arrow
Seek back 10 %	Ctrl + Left Arrow
Seek forward 15 seconds	Right Arrow
Seek forward 10 %	Ctrl + Right Arrow
Seek to the beginning	Home
Seek to the end	End

10.5. Setting up Comodo IceDragon Sync Information

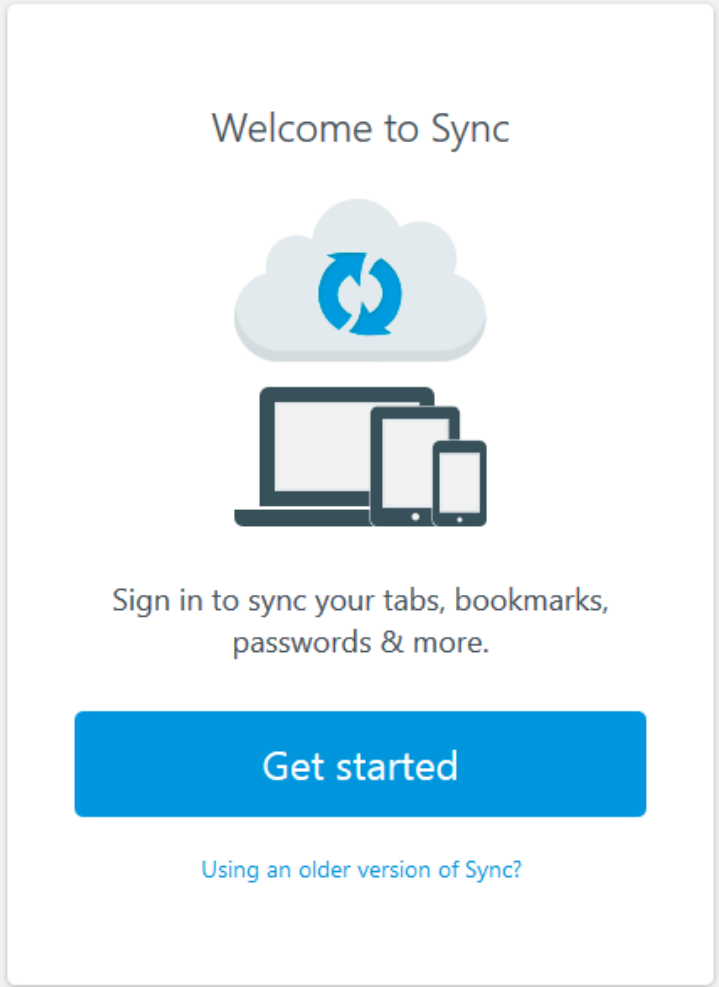
IceDragon allows you to upload your IceDragon configuration details (bookmarks, browsing history, preferences, password, filled forms, add-ons, and the last twenty five opened websites) to your Google Account. Synchronizing your configuration means you can use your settings on any computer that has IceDragon installed.



To set up synchronization

- Click the IceDragon menu located at the top right corner of the browser:
- Click 'Sign in to Sync'.

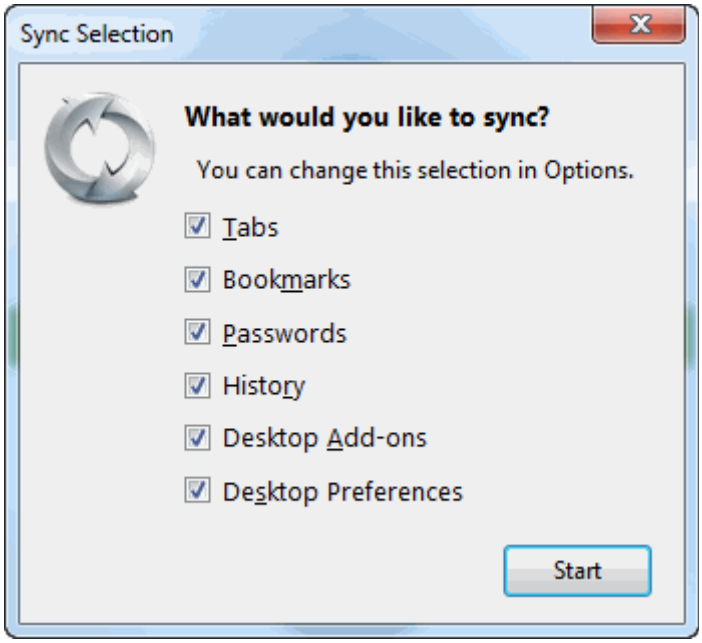
  OR
- Click the IceDragon menu located at the top right corner of the browse
- Select 'Sync' interface
- The 'Create Account' dialog will be displayed.



- Click the 'Get Started' button
- Fill out a form to create Firefox account to continue sync

OR

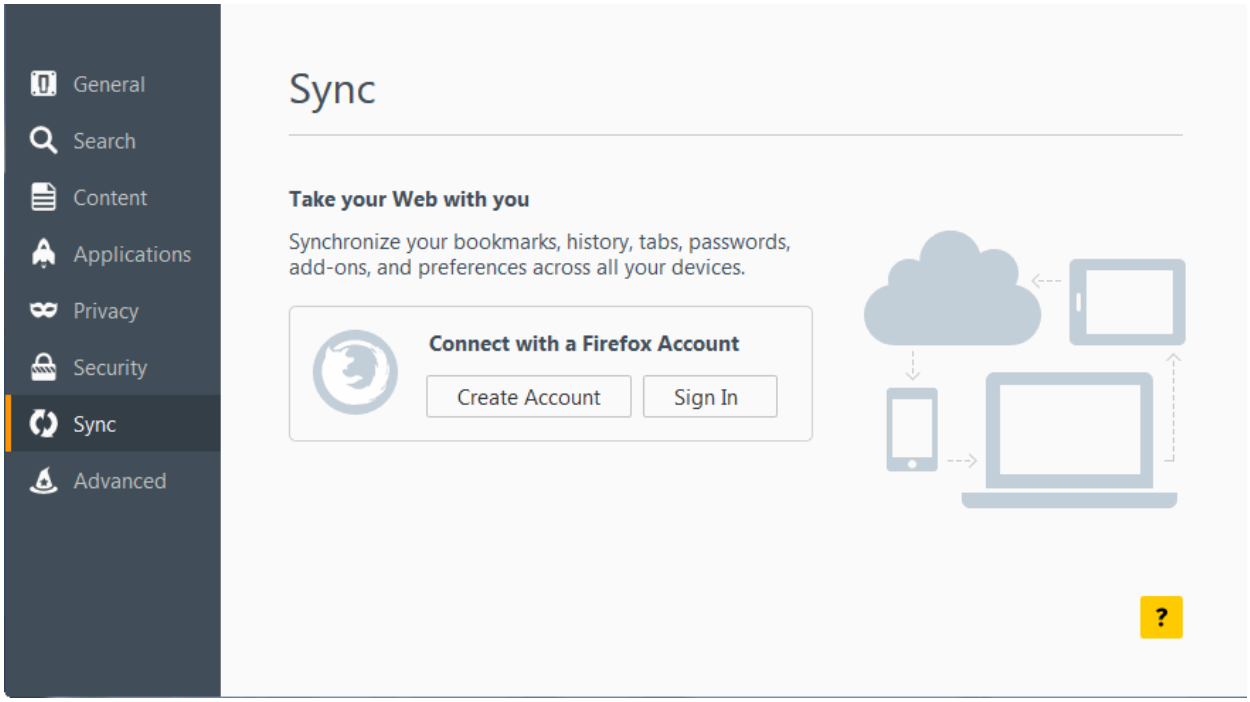
- Click 'Sign up' if you have already Firefox account. You will be received a verification link onto your mail.
- Sign in to you mail and click the 'Verify'.
- Checkbox what you want to sync in the 'Sync Selection' dialog.



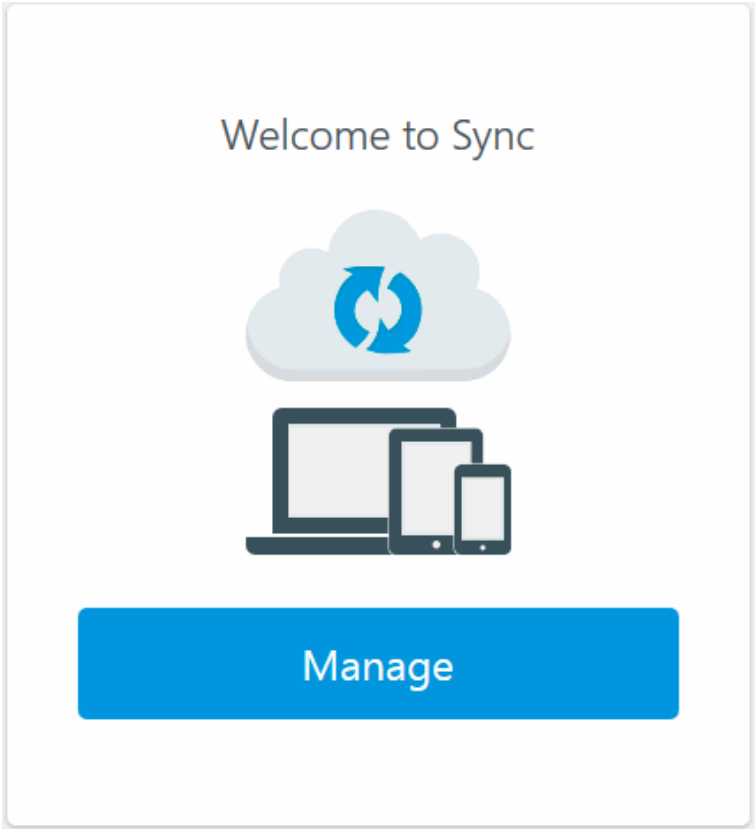
Click 'Start'.

Managing Comodo IceDragon Sync Information

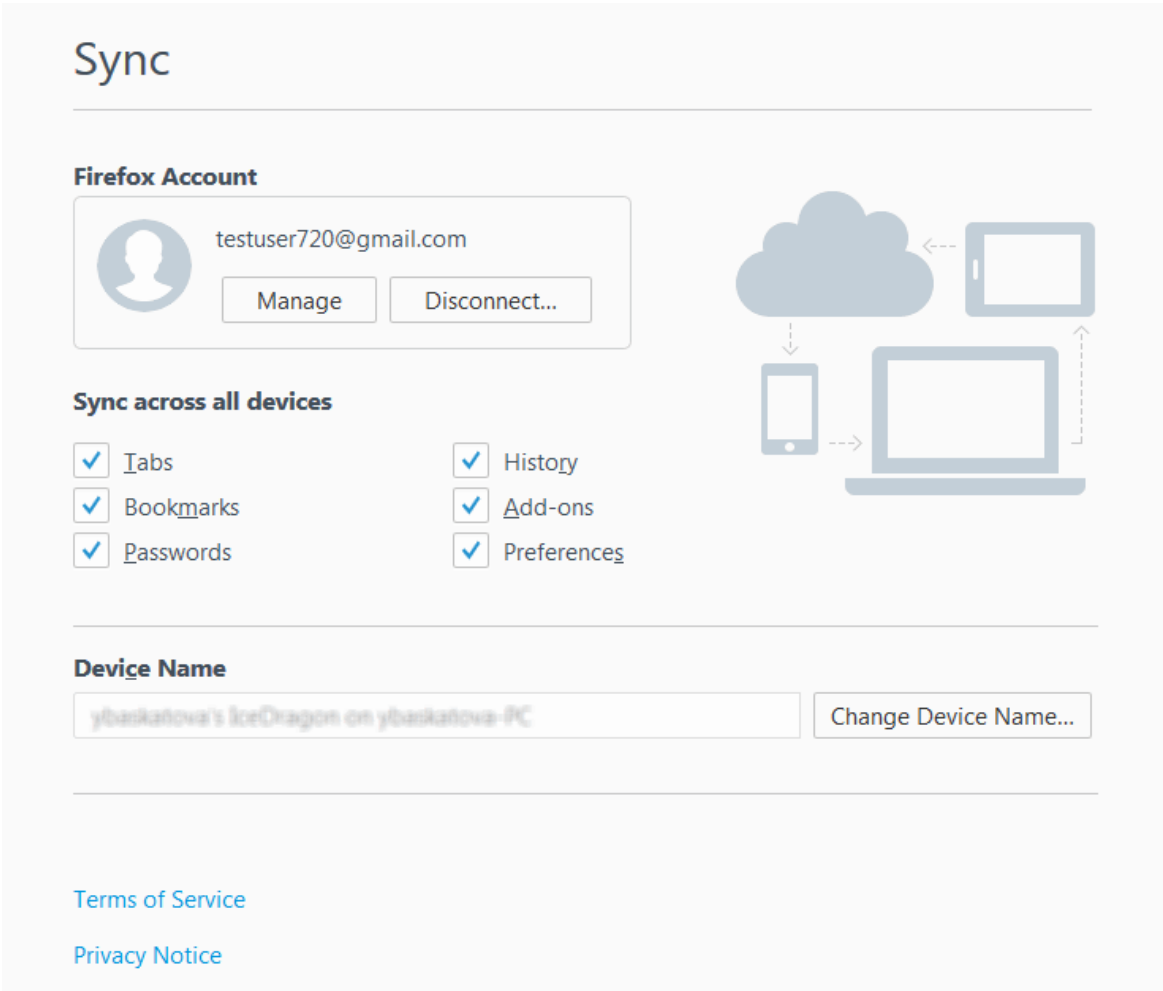
- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options'> 'Sync' tab



- Click 'Create Account' link, to create a Firefox account
- Click 'Sign in' to login to your account if you have already created account



- Click 'Manage' button. The "Sync" tab will open.



- Click the 'Manage' button to open your 'Firefox Account '. This dialog allows you to customize your picture profile, name, communication preferences, password and delete your accountable
- Click 'Disconnect' to stop syncing with your account
- Check the 'Sync across all devices' box to sync the item
- Click 'Change Device Name' to rename a device, then click 'Save' to save your setting

To change a password,

- Click the 'Change password' link
- Type your an alp password, then re-type it again and click 'Confirm'
- Click 'Back' to return to 'Manage account' dialog

To delete an account,

- Type your password and click 'the Delete account' button
- Click 'Back' to return to 'Manage account' dialog

Resetting IceDragon sync every time I close IceDragon

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Options'> 'Sync' tab> 'Privacy'
- In the IceDragon will: select 'Use custom settings for history'
- Uncheck 'Clear history when IceDragon closes'

11. Web Developer Tools

Comodo IceDragon has a number of built-in tools that allow web-developers to check for errors in web pages, run java scripts, view page sources, view and change styles, find java script related errors and more.

Click the links below for more help:

- **Opening the Tools console**
- **Inspect Page Elements**
- **Using the Web Console**
- **Remove Inconsistencies with HTML, CSS and Javascript**
- **View and Run Experimental Style Sheets on a Webpage**
- **Improving Web Page/Web Application Performance**
- **Network Monitoring**
- **Using the Developer Toolbar**
- **Using the WebIDE**
- **Browser Console**
- **Responsive Design View**
- **Eyedropper**
- **Run Experimental Java Scripts on Page**
- **View Page Source**
- **Enabling Character Encoding from the Web Developer Console**
- **Add More Web Development Tools**

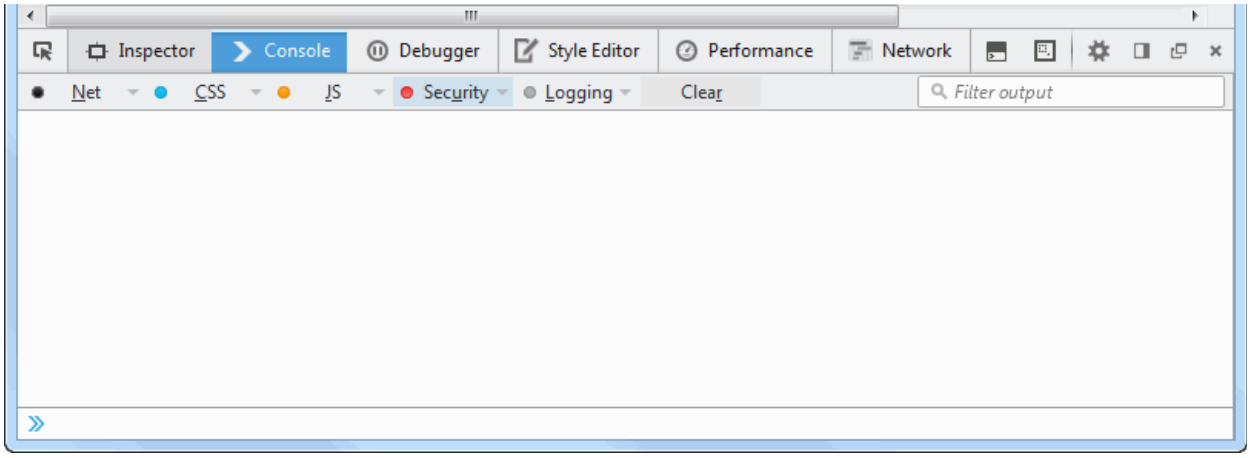
- **Working Offline**

11.1. Opening the Tools Console

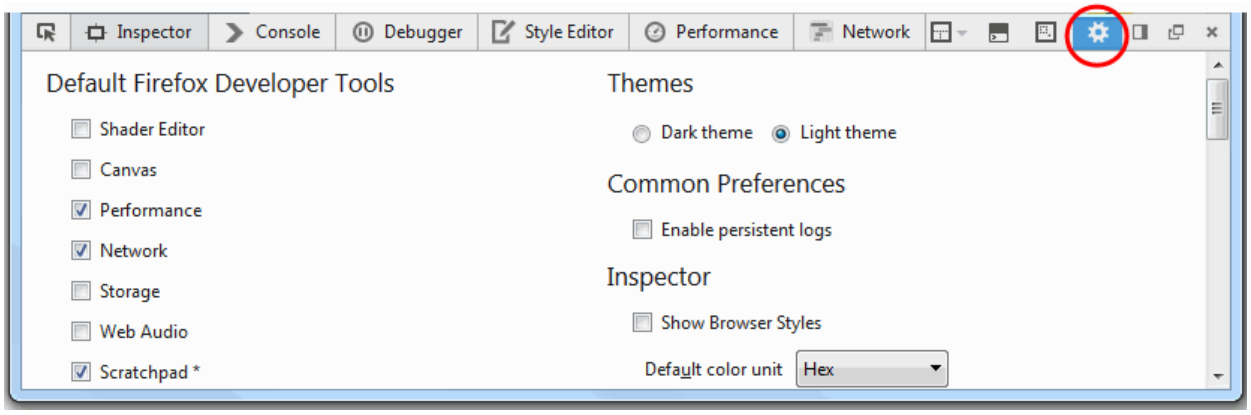
To access the Tool interface

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer '
- Select 'Toggle Tools'

The 'Toggle Tools' interface will open.



- **Toolbox Option** - Provides an access to the settings for the Toolbox itself and for the tools it hosts.



- **Default Firefox Developer Tools** – Check any box to make available the feature in question.
- **Available Toolbox Buttons** – Choose which tools will be displayed on the toolbar.
- **Theme -** Allows you to switch between a Light and a Dark theme.
- **Common Preferences**
  - Enable persistent logs - Control whether or not Web Console and Network Monitor clear their output in order to navigate to the new page
- **Inspector**
  - Show browser styles – Determines whether or not the style applied by the browser will be displayed in the Inspector's Rules view
  - Default color unit: drop down – Select the colors will be presented in the inspector. Available:
    - Hex

- HSL(A)
- RGB(A)
- Color Names

- **Web Console -** Enable timestamps - If enables, the console clears the output when you navigate to a new page.
- **Style Editor** – Allows you to view and manage original sources and autocomplete CSS
- **Editor Preferences –** Defines which items will be used in developer tools
  - *D*etect indentation: Auto-indent new lines based on the current indentation
  - Autoclose brackets
  - Indent using spaces
    - Tab size = 2 *(By Default)*
    - Keybindings: drop down - Select CodeMirror keybindings or keybindings:
      - Vim
      - Emacs
      - Sublime Text
- **Advanced settings**,
  - **Show Gecko platform data** – Display Gecko platform symbols
  - **Disable Cache (when toolbox is open)** - Allows you to disable session caching
  - **Disable JavaScript** (Current session only, reloads the page)- Loads the current tab with JavaScript disabled
  - **Enable Service Workers over HTTP (when toolbox is open**) – Allows you to service worker registrations from insecure web sites
  - **Enable browser chrome and add-on debugging** - Allows you to use developer tools in the context of the browser itself
  - **Enable remote debugging** - Allows you to debug code running remotely in a different process or on a different device
  - **Enable worker debugging (in development)** – Allows you to perform worker debugging in a different process or on a different device
  - Restart your browser for the settings to take effect.

- **Web Console -** Displays logged information and other error messages. Allows developers to upload/download files to/from server, edit text files directly on a server and much more.
- **Inspector** – Analyze the layout of a web page, finds and fix web page issues. It allows developers to see which elements in the source files (including server-side code) have produced the HTML markup to be rendered in the browser. Page Inspector also lets you modify CSS properties and DOM element attributes to see the changes reflected immediately in the browser.
- **Debugger -** Finds errors in other programs. A debugger allows a web developers to stop a program at any point and examine and change the values of variables.
- **Style Editor** - Allows developers to edit a style sheet to apply a style of your own choice to required elements.
- **Profiler** - Allows developers to find and eliminate bottlenecks in your JavaScript code.
- Network - Displays a list of all the network requests made while loading the page.
- **Highlighted painted area** – Helps to figure out whether your website is causing the browser to repaint more than it needs to.
- **3D View icon** – Clicking the 3D view button opens page into the 3D view mode. This view makes it easy to visualize the nesting of your content. This button is available if your system supports WebGL. If you don't see the 3D button, it is possible that your graphics driver needs to be updated.
- **Scratchpad** – Opens the Scratchpad window to edit and run JavaScript code, execute it on the web page before final implementation. Web Console also can be used for editing and running Java Script codes.

- **Responsive Design Mode** – Makes it easy to see how your designs will look on different sized screens such as mobile phones or tablets. Use the resize handle at the lower right of the content area to change the size of the content area.
- **Dock to side of browser window** - To optimize the space in the bottom of the pane, transpose the pane to the vertical space.
- **Show in separate window** – Opens a separate Developer Tools.

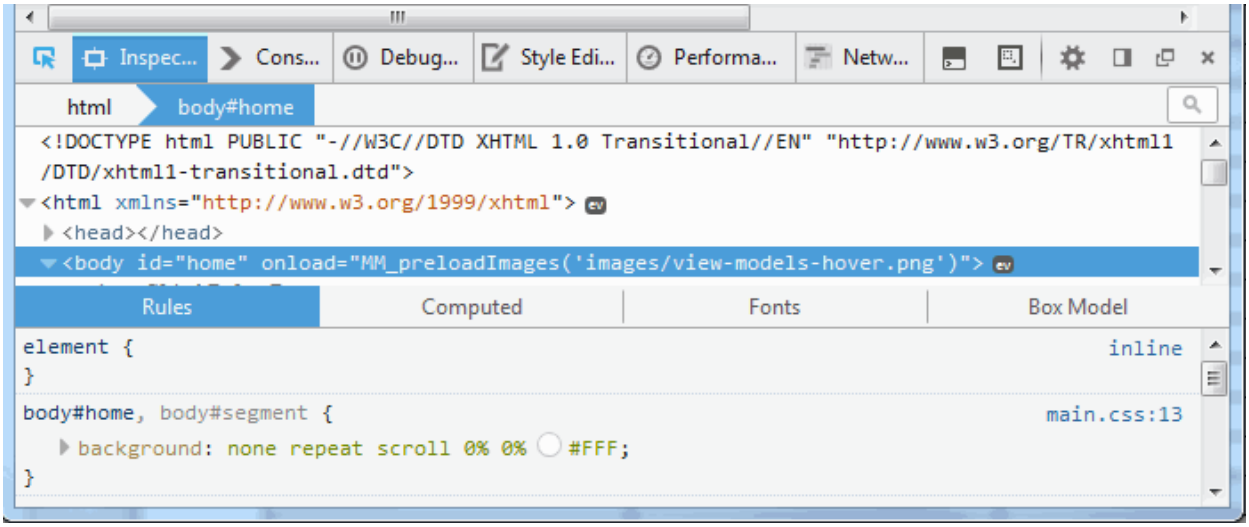
Click on the '**X**' at the far right to close the tool bar.

11.2. Inspect Page Elements

Page Inspector tool in IceDragon is a very useful tool for web developers to analyze the layout and a the structure of a web page.

To open inspect element tool

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer '> select 'Inspector'.
- Alternatively, right-click on the page or an element in the page and select 'Inspect Element' from the context sensitive menu. The page inspector tool bar will be displayed at the bottom of the IceDragon.



Move the cursor over the page and a pop-up will provide information about the element that you are hovering on. Select an element that you want to inspect and click on it for more information on it.

The page inspect toolbar will be placed at the bottom of the browser. HTML, the top-level element in the hierarchy of all nested elements, is at the left of the toolbar and the selected element in the right. All the parent elements will be in the left and respective child elements in the right of the tool bar.

- Use the arrow keys in the left and right to navigate to the elements in the tool bar.
- Click on the 'HTML' button to view the HTML code of the selected element. Clicking on it again will close the HTML panel.
- At the far right of the tool bar, click on 'Computed' to open the Style panel. The CSS of the selected element will be displayed. They're listed in alphabetical order.
- At the far right of the tool bar, click on 'Fonts' to open all the fonts in use by the selected element.
- At the far right of the tool bar, click on 'Rules' to show all the rules that apply to the selected elements. The most recently applied styles are listed first. Styles are grouped by source. The 'inline' group lists styles applied using the HTML *style* attribute.
- At the far right of the tool bar, click on 'Box Model' to open a blue box with the total space taken by the element on the page. It provides information about the currently selected page element's layout: the outside

numbers displays an amount of padding is on each side of the element. The numbers in squares on the borders displays the border of each side. Then, the margins around the element and the center, is the size of the element's content.

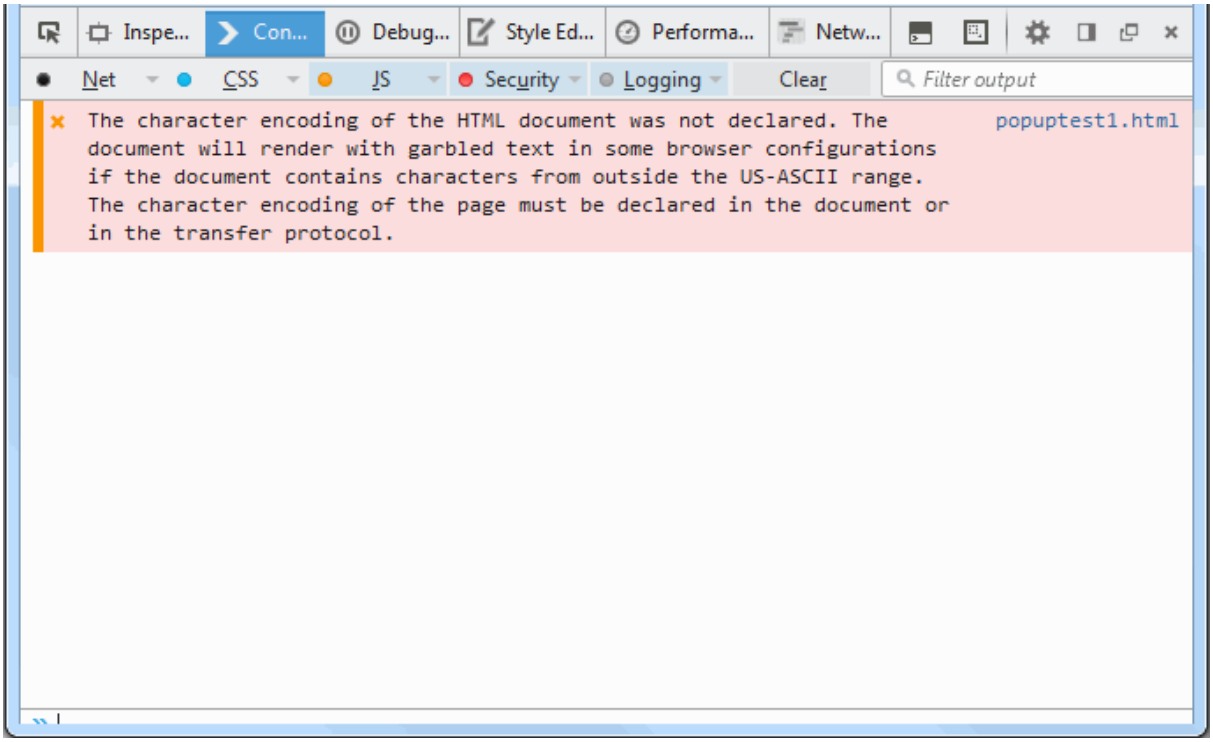
11.3. Using the Web Console

Web Console is a very useful tool for web developers, which displays logged information and other error messages. It also allows them to check Javascript and acts as a debugging tool for your web application or web site.

To access Web Console

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer '> select the 'Web Console'

The 'Web Console' interface will open.



- Use the 'Position' drop-down menu beside the Filter box to place the Web Console above or below.
- Use the 'Filter' box to search for particular item(s) from the list.

The Web Console displays messages about Network requests, CSS, JavaScript and Logging.

- **Network messages** – Displays messages about network requests generated by your web browser. Click on network request log to view full its details such as request headers and response headers.
- **CSS Messages** – IceDragon generates these messages to inform about the CSS errors that occurred while loading a web page.
- **JavaScript Messages** - IceDragon generates these messages to inform about the JavaScript errors that occurred while rendering a JavaScript code.
- **Security Messages** - IceDragon generates these messages to inform about security warnings and errors that occurred during runtime.
- **Logging Messages** – These are outputs of JavaScript code executed on the console object in IceDragon.

Messages that are generated multiple times are listed only once with an indication in the right displaying how many times the message was output in the Web Console.

You can choose what information should be displayed in the log area by selecting the respective item, that is, Network, CSS, JS, Security and Logging. You can further filter them from the drop-down menu to display messages about errors, warnings, info and log.

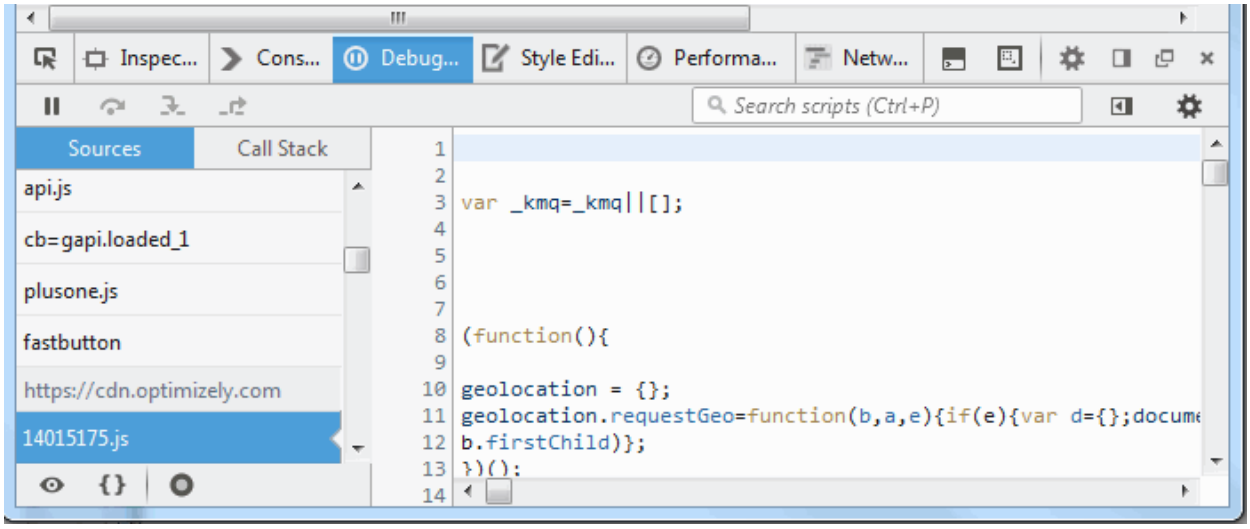
Below the log information area, a command line box allows you to execute JavaScript in real-time.

11.4. Remove Inconsistencies with HTML, CSS and Javascript

Debugger feature is available for debugging content running directly in Comodo IceDragon and allows you to step through the page's code line by line and examine the values of variables. It is useful whn you create a web page and site and then to use the debugger to examine the page as it is running.

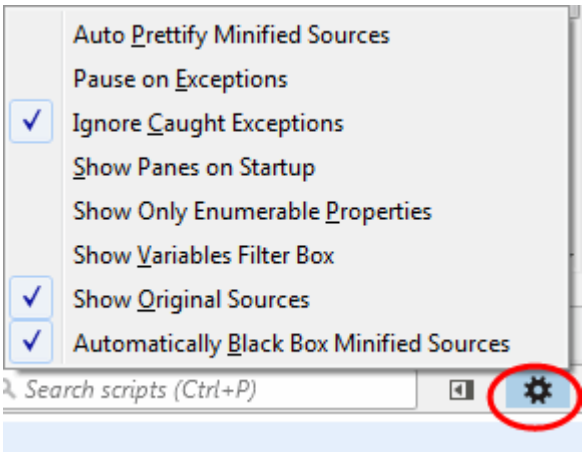
To open debugger element tool

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer '> Select 'Debugger'



The debugger toolbar consists of:

- **Pause/Resume** - Pauses or resumes execution of the script you're debugging.
- **Step Over** - Steps across the current line of JavaScript code.
- **Step Into** - Steps into the function call on the current line of JavaScript code.
- **Step Out** - Runs the script until the current function exits.
- **Script Chooser** - This pop-up menu lets you select one of the running scripts in order to read its code, set breakpoints, and so forth.
- **Script Filter** - The script filter (which doubles as a search box) lets you type a string to filter what scripts should appear in the Script Chooser.
- **Expand Panes** - Expands or contracts the window to show or hide the sidebar panels.
- **Debugger Options** - Pops-up a menu to configure the debugger.



- **Auto Prettify Minified Sources** – If enabled, the debugger will automatically detect minified JS files and pretty-print them.
- **Pause on exceptions** -If enabled, execution of script will automatically pause whenever a JavaScript exception is thrown.
- **Ignore on exceptions** - If enabled, the debugger will automatically pause the execution of the script whenever a JavaScript exception is thrown.
- **Show panes on startup** - If enabled, the debugger's two sidebar panes are visible when you first start the debugger; by default, they are not.
- **Show only enumerable properties** - If enabled, allows you to filter the displayed list of variables after the "Filter variables" search box to will be added the variables panel.
- **Show variables filter box** - If enabled, do not display non-enumerable JavaScript properties
- **Show original sources** - If enabled, allows you to use source maps to see the original source for code.

11.5. View and Run Experimental Style Sheets on a Webpage

The Style Editor web developer tool in IceDragon allows you to view the list of cascaded style sheets (css) used in the currently displayed webpage. You can edit a style sheet to apply a style of your own choice to required elements and have a preview of the implementation of the style sheet in the displayed webpage. Also you can save style sheets from a webpage for use in your webpage and import CSS's developed by you to apply on required elements of the displayed webpage.

The Style Editor tool is helpful for webdevelopers to have a preview of the page developed by them and to experiment on different style sheets before final implementation.

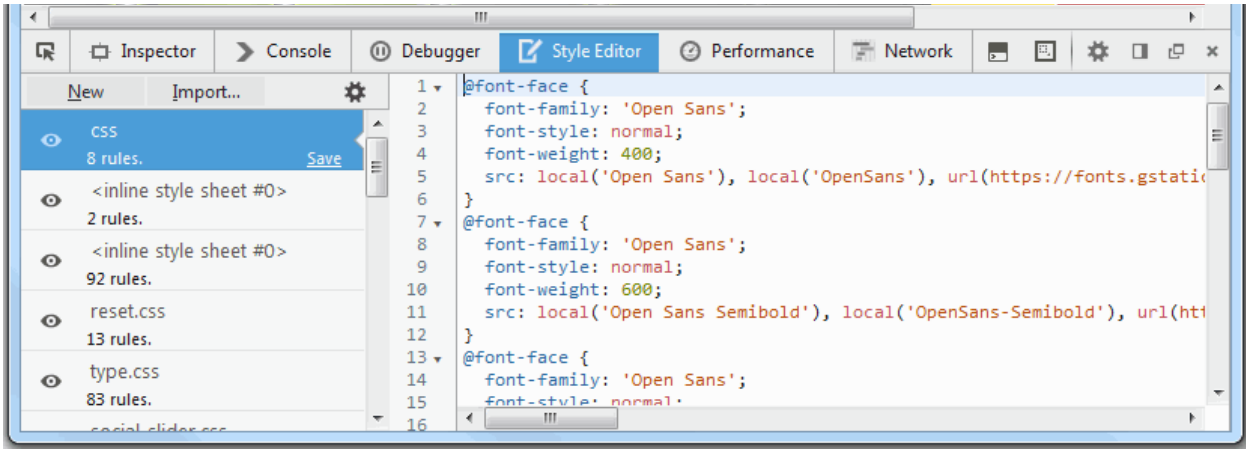
Click the links below for more help:

- **Viewing and editing the style sheets used in a webpage**
- **Applying your style sheet to a webpage**

To view the list of style sheets used in the currently displayed webpage

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer ' > Style Editor

The Style Editor dialog will be displayed.



The list of external and inline style sheets used for the webpage will be displayed in the left hand side pane and the rules defined in the style sheet selected from the LHS pane will be displayed in the right hand side pane.

- To view the elements and styles defined for the elements in a style sheet, click on the style sheet listed in the left hand side navigation pane.
- To switch and preview the page with and without the application of a selected style sheet, click on the 'eye' icon beside the style sheet name in the LHS pane.
- To edit and experiment with styles, find the style rule applied to the desired element from the right hand side pane and change the parameters as you wish. The changes will be immediately reflected in the webpage viewed. But these changes are temporary and will be lost when the page is reloaded.

Tip: To identify the rule applied to a desired element, right-click on the element and select 'Inspect element' from the context sensitive menu. The lower pane in the window will display the 'div id' of the element. Search for the 'div id' in the style editor window by pressing Ctrl+F from the keyboard and entering the div id in the 'Find...' dialog

To save a style sheet

- Select the style sheet from the LHS pane and click 'Save' link beside it
- Navigate to the location in your computer and enter a file name with .css extension in the 'Save as' dialog.

Applying your style sheet to a webpage

You can create your own style sheet for element(s) in a page and apply to them and have a preview. This is useful for web-developers to experiment of different style sheets for different elements before deciding the final style.

To apply an external style sheet

- Click 'Import', navigate to the location in your system where you have saved the .css file and click 'Open'

The style sheet will be imported and the style rules will be applied to the elements defined in the sheet immediately for a preview.

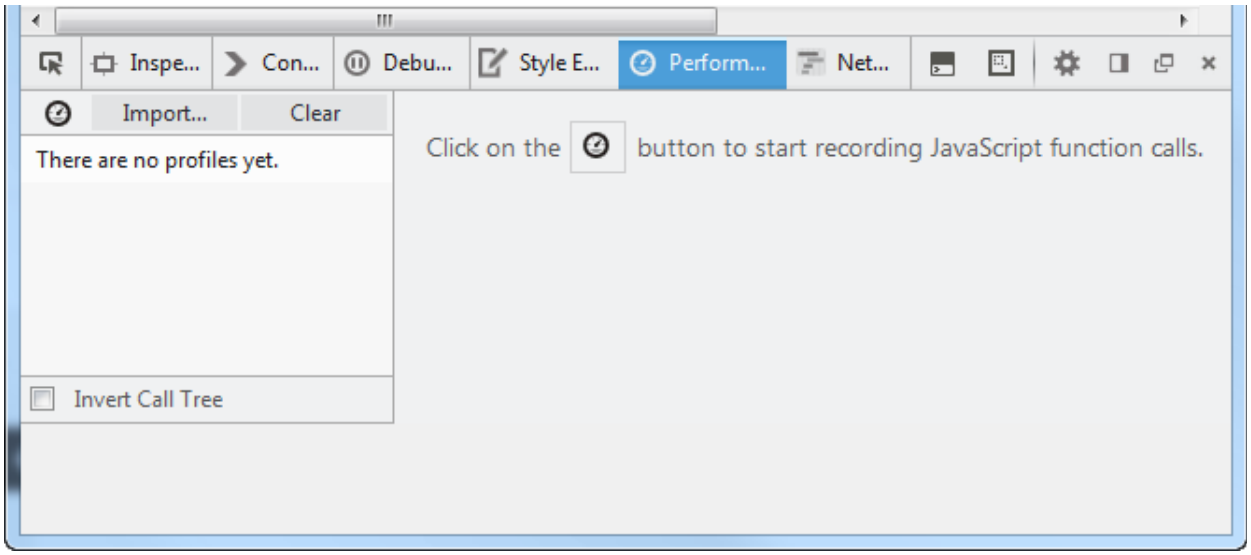
11.6. Improving Web Page/Web Application Performance

The Performance tool allows website and web application developers to optimize their JavaScript code by testing the performance of their web pages in IceDragon within a frame rate timeline.

On executing the code, the performance samples the state of the JS engine and records the code stacks at various time points. The performance then calculates the time spent by the browser to execute each stack and displays a statistical report. The report enables the web developer to analyze and identify the bottlenecks in the code.

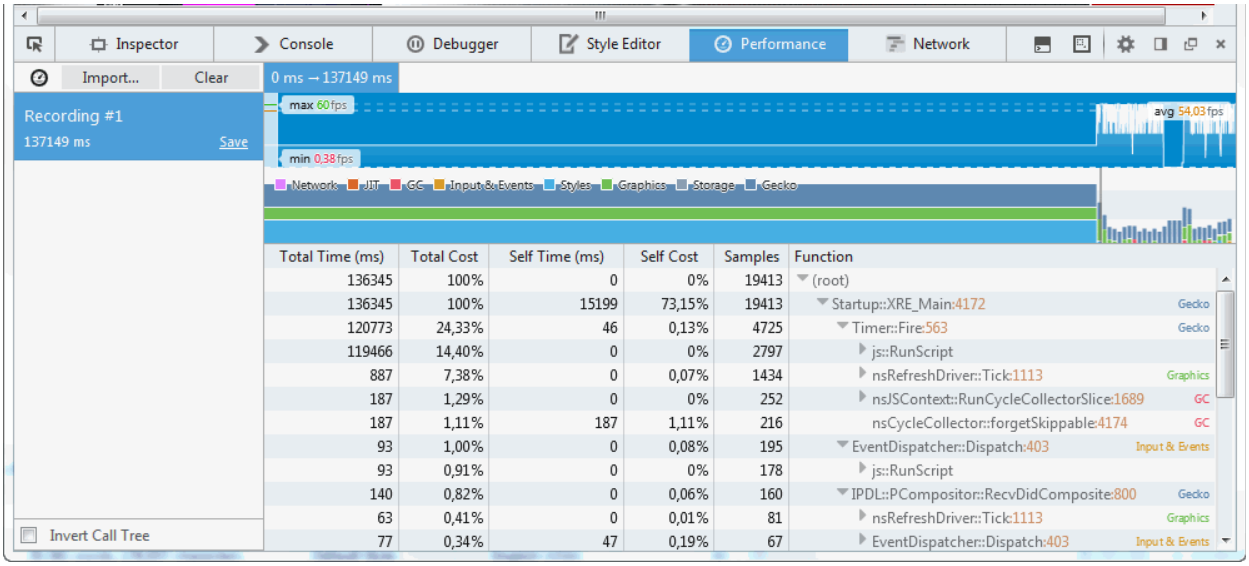
To run the Performance

- Open your code in IceDragon
- Open the Performance toolbox by choosing 'Performance' from 'Tools' > 'Web Developer'



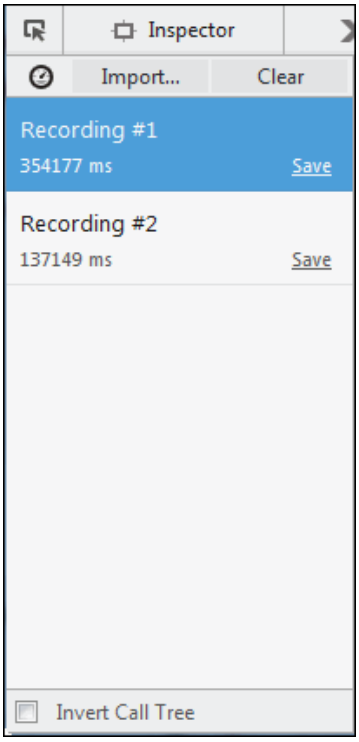
- Execute your code in IceDragon and click 'Start' in the toolbox to commence recording the samples
- Leave the profiler to record the samples for required time period and click the 'Stop' button to stop the recording

The Performance will compile the results and display the report.



Understanding the Report:

The recording left hand pane of the report displays a list of captured profiles which can be loaded at any time. The right hand pane displays the currently loaded profile.



- Click the 'clock' icon at the top-left of interface and repeat recording the samples and generate several profile reports.
- Click the 'Import' and navigate the folder to upload the profiles
- Click 'Clear' to remove all profiles.
- 'Invert Call Tree' checkbox - If checkboxed, the profiler report will,
  - make a list of all stack frames with a Self Cost greater than zero: that is, stack frames which were actually execute when the sample was taken
  - order the list by the number of samples taken while in that stack frame
  - for each entry in the list, show the call stack backwards to the top-level function.

The profile contains four main sections provides:

- **breadcrumb trail**
- **frame rate timeline**
- **timeline for platform code execution**
- **detailed output of the JavaScript sampling profiler**

Breadcrumb trail

The upper half of the loaded profile displays a time verses call stack size bar-graph of the profile. The call stack represents the amount of active functions at the time when the sample was taken.

You can analyze the response for the stacks for a specific time range too. Selecting a portion of the graph, by dragging the mouse cursor displays a new tab above the graph indicating the selected portion. Clicking the new tab opens the enlarged view of the selected portion.

To click and drag in the frame rate timeline or the sampling profiler timeline, will

- highlight the section of the timeline
- show samples that were recorded in that section

- appear "+" in the toolbar at the top. Click the '+' to view the highlighted expanded section. You will see a separate breadcrumb nail the toolbar at the top.

You can switch between the complete profile and the section using the breadcrumbs, zoom in on a subsection within the section.

Frame rate timeline

This item allows you to view the browser's responsiveness within the period covered by the profile. The x-axis is time over the profile period and contains three annotations: the target frame rate (always 60 frames per second), the average frame rate, and the lowest frame rate.

Timeline for platform code execution

Category	Description
Network	Sending and processing network requests and responses
JIT	JavaScript code compilation
GC	Garbage collection
Inputs & events	Events such as mouse or DOM events
Styles	Parsing CSS
Graphics	Includes handling reflows and repaints as well as WebGL
Storage	Most often this is IndexedDB
Gecko	Indicates items that doesn't fit into any of the other categories

Hover over the color key for a current category will fade all other categories.

Detailed output of the JavaScript sampling profiler

The lower half display the details of the profile.

Total Time (ms)	Total Cost	Self Time (ms)	Self Cost	Samples	Function
352972	100%	0	0%	1313	(root)
352972	100%	0	0,22%	1313	Startup::XRE... :4172 Gecko
352957	97,86%	0	0%	1285	Timer::Fire:563 Gecko
352926	95,96%	0	0%	1260	js::RunScript
31	1,67%	0	0%	22	nsR... :1113 Graphics
0	0,22%	0	0,22%	3	nsCycleC... :4174 GC
15	1,90%	0	0,07%	25	ns...:726 Input & Events
15	1,29%	0	0%	17	Pres...:4220 Graphics
0	0,53%	0	0,15%	7	:403 Input & Events

The **'Total Time (ms)'** display the break down view of the stacks that contained specific active functions and their share in total number of stacks in percentage in the first column, the number of stacks called by the functions in the second column and a tree structure view of the functions in the third column.

The 'Total Cost' indicates the number of samples to be taken in which the corresponding "Function" appeared in the call stack.

The **'Running Time'** indicates the total number of samples executed within the recording time followed by the percentage of stacks that executed the active functions.

The **'Self Cost'** indicates the number of stacks that were called while executing the active functions, and not the stacks that called the function.

The **'Self Time (ms)'** indicates the amount of time spent executing the function, exclusive of any functions called by this function in the percentage of stacks that executed the active functions.

The '**Samples**' indicates the number of samples to be taken in which the corresponding "Function" appeared in the call stack.

The '**Function**' displays the function name, source file, line number and domain that served the file. To debug a specific function, hover the mouse cursor over the function and click on the right arrow that appears at the end of the line.

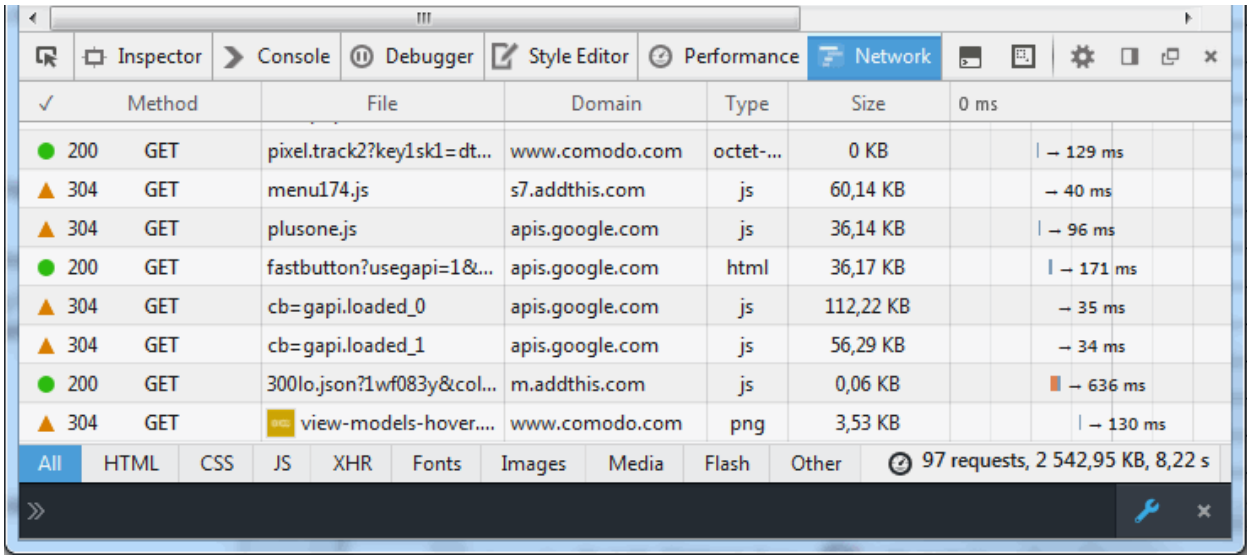
11.7. Network Monitoring

The Network Monitoring request is a tool in the toolbox that allows developers to view a network activity on a site.

To view the page source

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer ' > 'Network'

The 'Network' interface will display on the bottom of the browser.



The Network table displays,

- √ - The HTTP status code returned. Hover over the icon to see the exact code. Green color-coded icon - success (2XX codes), orange - redirection (3XX), or red - errors (4XX and 5XX).
- **Method**: Shows the HTTP request method.
- **File**: Shows the basename of the file requested.
- **Domain** - Shows the domain of the path requested.
- **Type** - Shows `Content-type` of the response.

- **Size** - Shows the size of the response.
- **Timeline** - Displays a timeline for the different parts of each request.

Each column can be sorted by ascending or descending.

The toolbar will be displayed at the top of the pane and allows you to switch between different pages:

- **Headers -** Provides information about the request: URL, status code, the HTTP request and sent response headers.

The filter header field allows you to filter the headers.

- **Cookies -**Provides full details of any cookies sent with the request or response.
- **Params -** Displays the GET parameters and POST data of a request.
- **Response -** Displays the complete content of the response. Depending of the type of response, it will be displayed in HTML, JS, or CSS as text, JSON as an object, an image will be shown as a preview.
- **Timings -** Provides detailed timeline bar for the request showing how the total wait time is split into the various stages.

The developers can also sort their certain type of files by HTML, by JS, by XHR, by Fonts, by Images, by Media or by Flash type. Click the buttons in the Network toolbar to filter the list by type. This is also allows you to find out the total size and download time for a particular type of file.

11.8. Using the Developer Toolbar

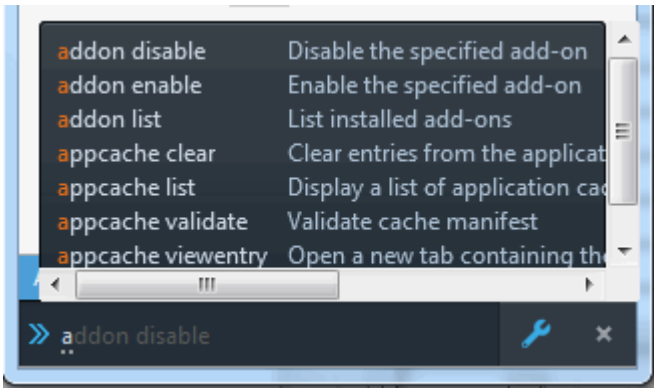
The Developer Toolbar provides a command-line interface to IceDragon to developer tools to navigate and one click access to commonly used tools.

To open developer toolbar element

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer ' > select 'Developer Toolbar'.

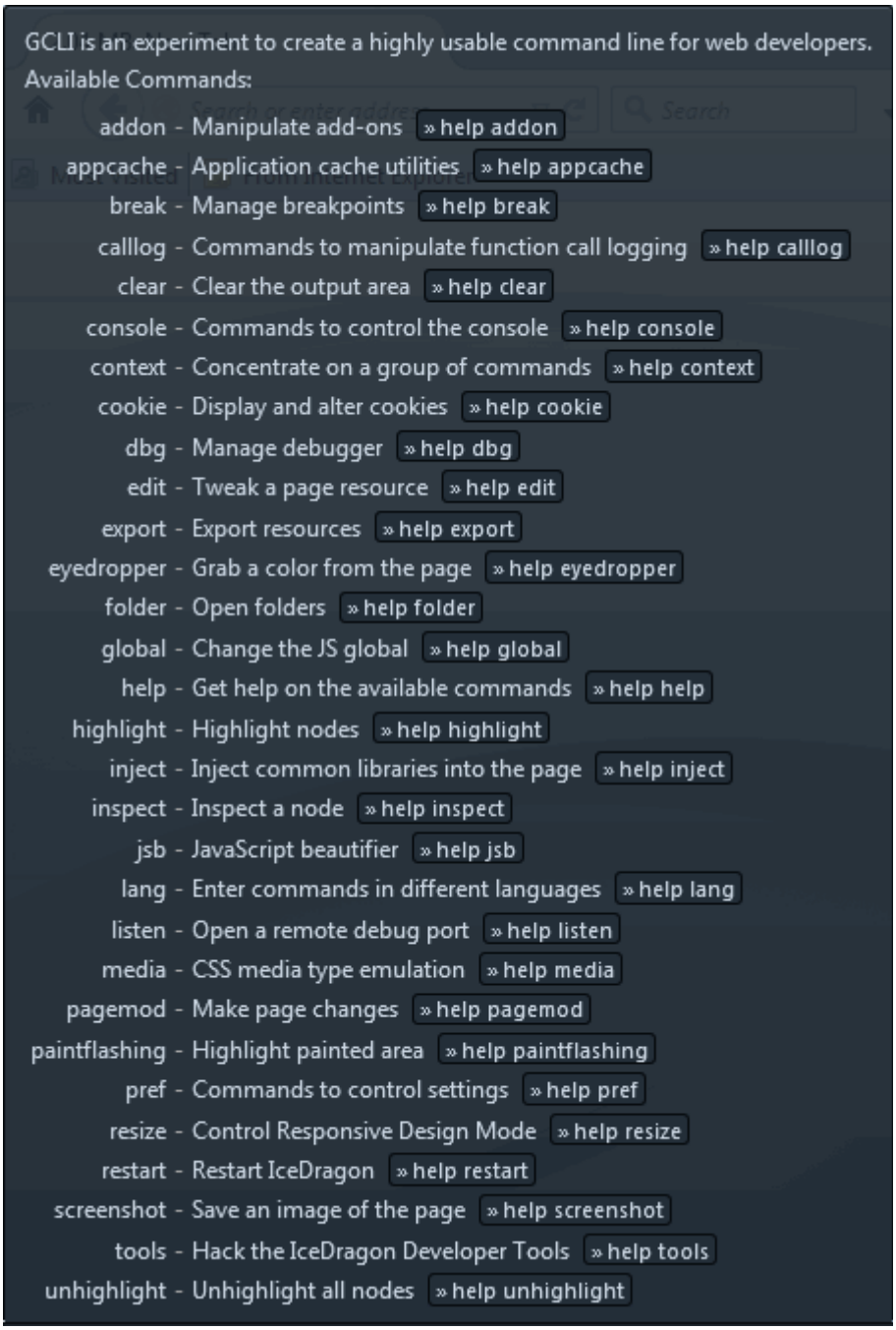
The left site of the toolbar contains the prompt for the command line, on the right is the button that toggles the toolbox

Press F1 to open the pop-up help.



or

To view a list of supported commands, type 'help'.



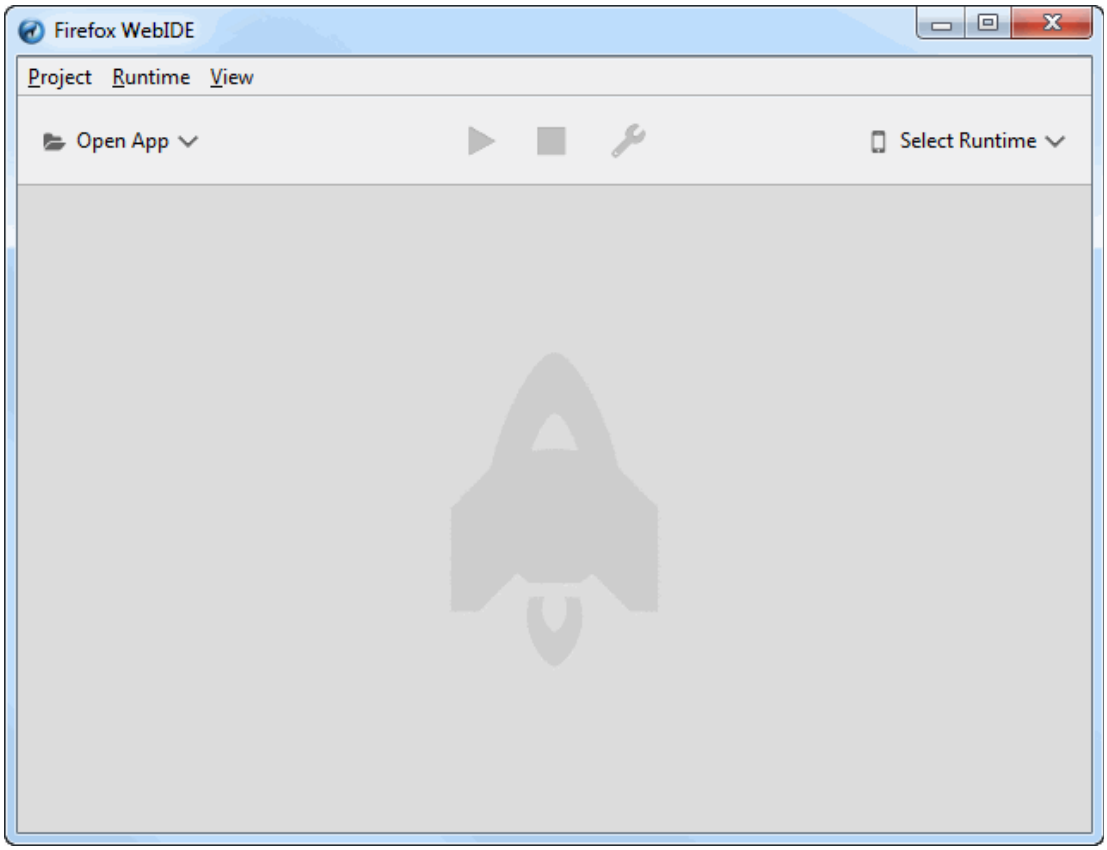
11.9. Using the WebIDE

The WebIDE allows the developers to set runtimes, create, run add, debug, develop Firefox OS application through the Firefox simulator or a real Firefox OS device.

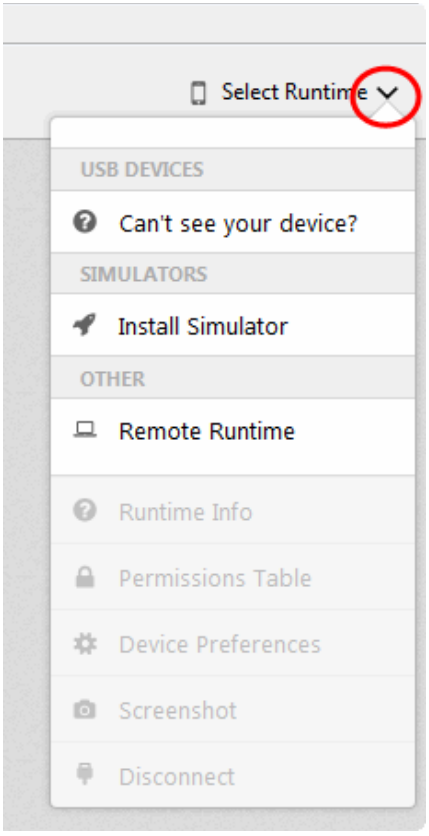
To open WebIDE

- Click the IceDragon menu located at the top right corner of the browser and click 'Developer '
- Alternatively, click the 'Customize' button from the menu on the bottom-left
- Select the WebIDE icon from the 'Additional Tools and Features' and dock it at the navigation bar.
- Click 'Exit Customize' to save the changes.

The Firefox WebIDE interface will open.



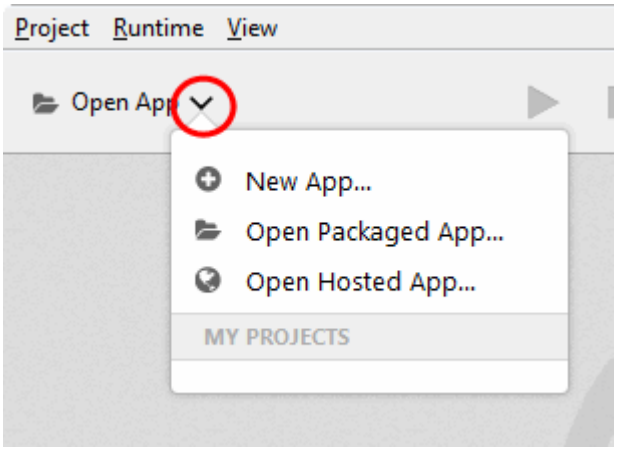
To set up a runtime



- Click the 'Select Runtime' drop down

- The runtime is grouped into three types
  - USB Devices allows to connect through the USB device
  - Simulators allows to connect through the OS Simulator that you have installed
  - Other allows to remote runtimes to connect an arbitrary host and port.

Adding new applications

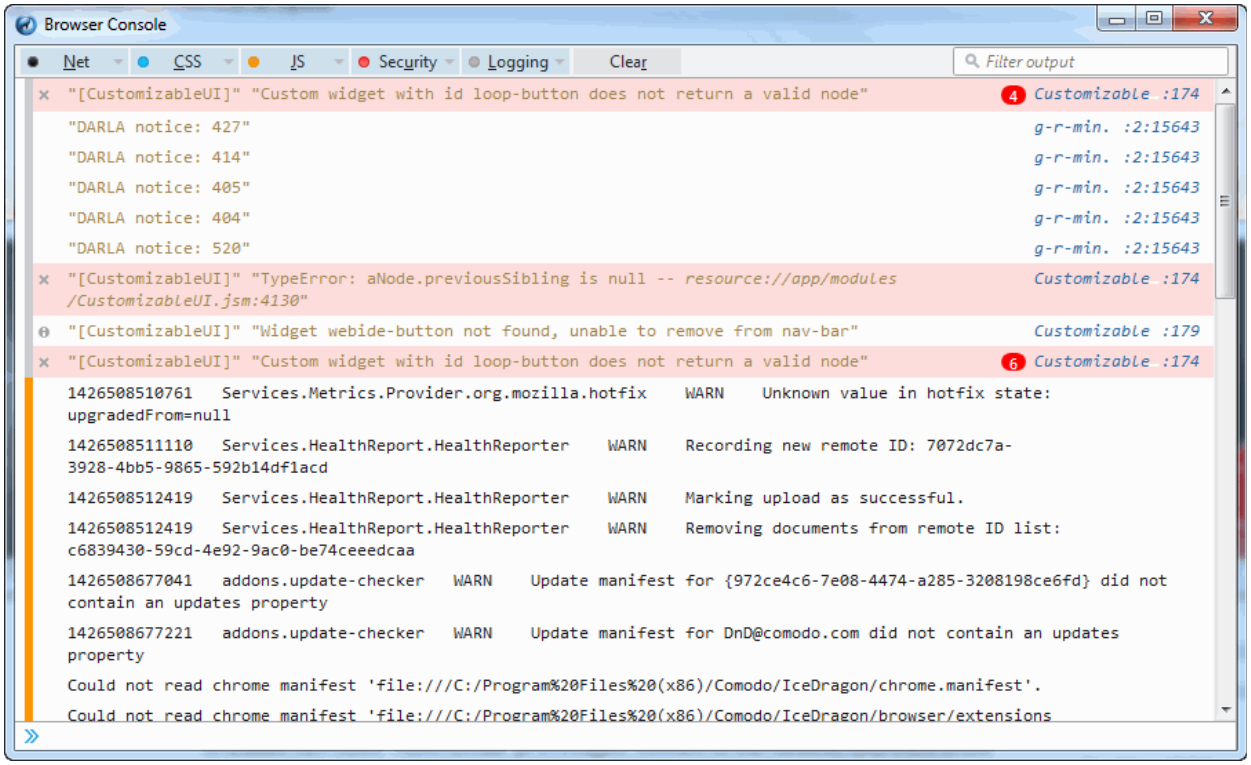


- Click the 'Open App' drop down it contains three options:
  - Create a new app
  - Open a packaged app
  - Open a hosted app

To remove a project from WebIDE, click the 'Project' menu > 'Remove Project'

11.10. Browser Console

The Browser Console tool is advanced logging & debugging features that executed in the context of IceDragon itself.



From here you get benefits:

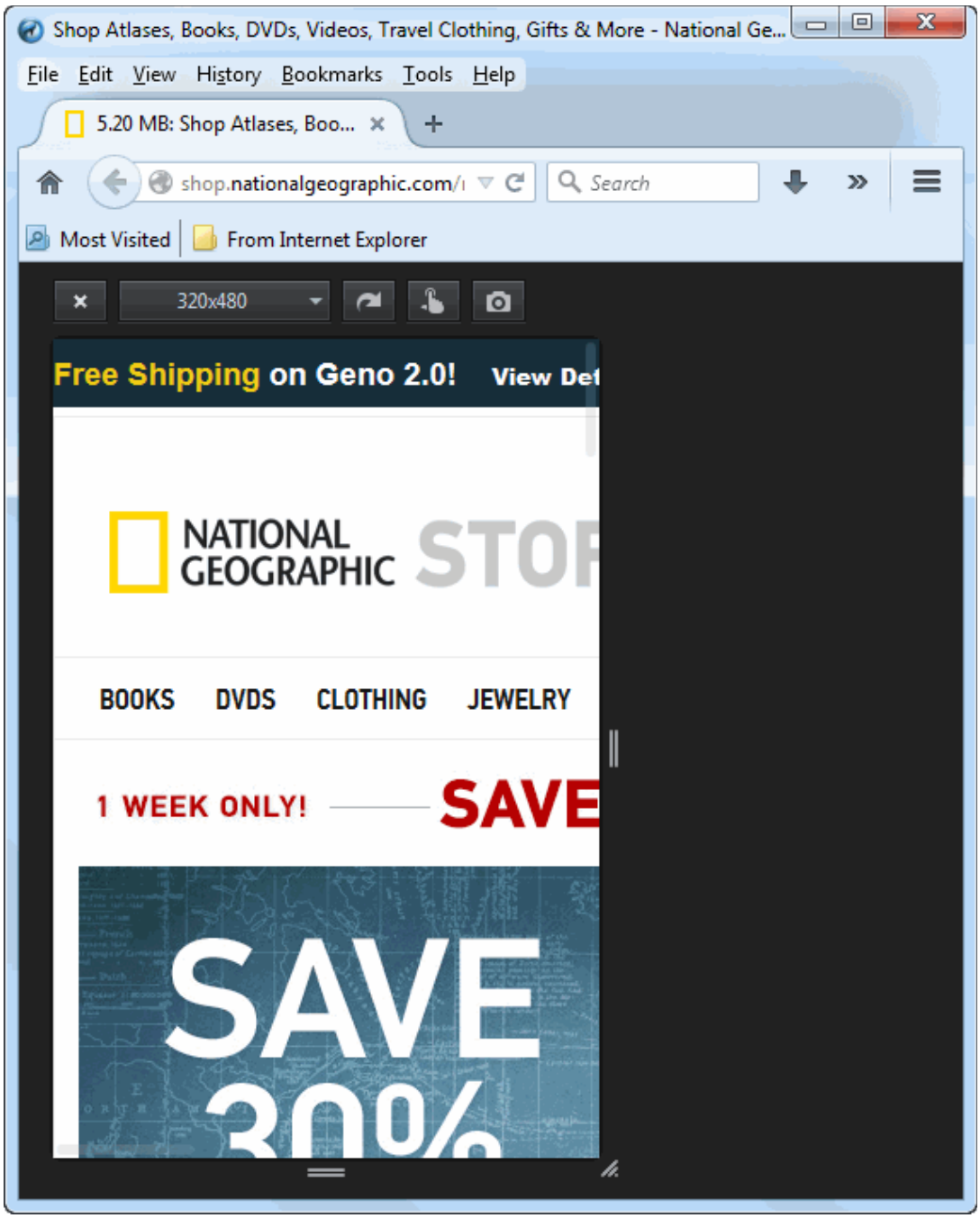
- View all JavaScript errors
- View logs in the browser
- Log any object directly to the console
- Provides helper console

11.11. Responsive Design View

Responsive Design View tool helps web developer to view, read and navigate his web design on the different screen sizes without changing the overall size of his browser window.

To open responsive design view

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer ' > 'Responsive Design View'.



11.12. Eyedropper

The 'Eyedropper' tool helps web developers to select colors in the current page and enables you to select with pixel accuracy. Hover the magnifying glass over the page and you will see the color value for the current pixel you have selected in the Inspector web tools.

To open Eyedropper tool

- Click the IceDragon menu located at the top right corner of the browser

- Click 'Developer > Eyedropper

To use the eyedropper

- Select a color from the page and copy it to the clipboard

OR

- Change a color value in the **Inspector's Rules view**

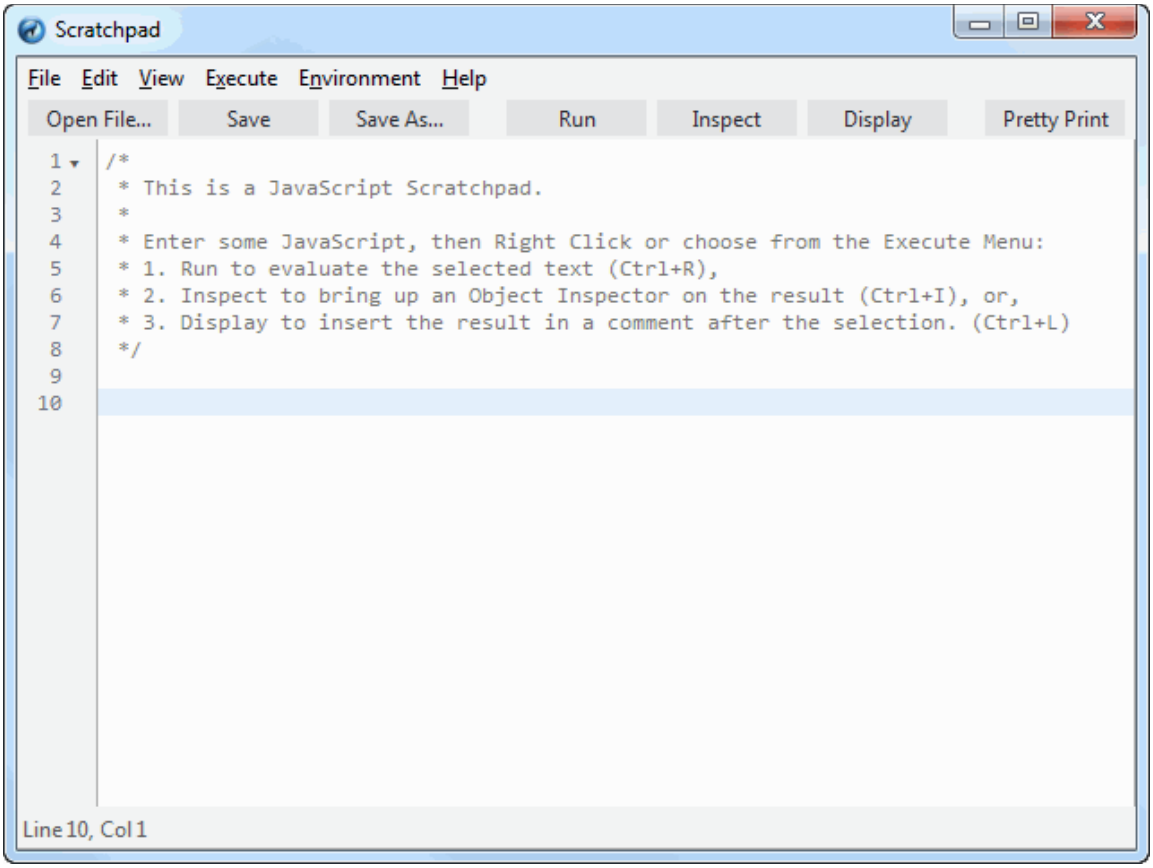
11.13. Run Experimental Java Scripts on Page

The Scratchpad web developer tool in IceDragon allows you to run experimental Java Script code for that page. This tool is very useful for you to try out various ideas and execute them on the web page before final implementation. Web Console also can be used for editing and running Java Script codes but is limited to executing single line of code at a time whereas Scratchpad can be used to execute many lines of codes at a time. Some of the uses of Scratchpad include testing new codes, debugging and to run saved reusable java script codes.

To open Scratchpad tool

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer ' > select 'Scratchpad'.

The Scratchpad editor will open. This contains some brief information about how to use it.



After you have written the code in the Scratchpad, select it and right-click to execute or from the menu bar select 'Execute'. You have three choices to output the code:

- **Run** - Executes the code in the page.
- **Inspect** - In addition to executing the code in the page, an object inspector will be displayed that will help you to analyze the returned value.
- **Display** - After executing the code in the page, the results are inserted in the Scratchpad window as a comment. This will help you to keep track of the changes made in the page.

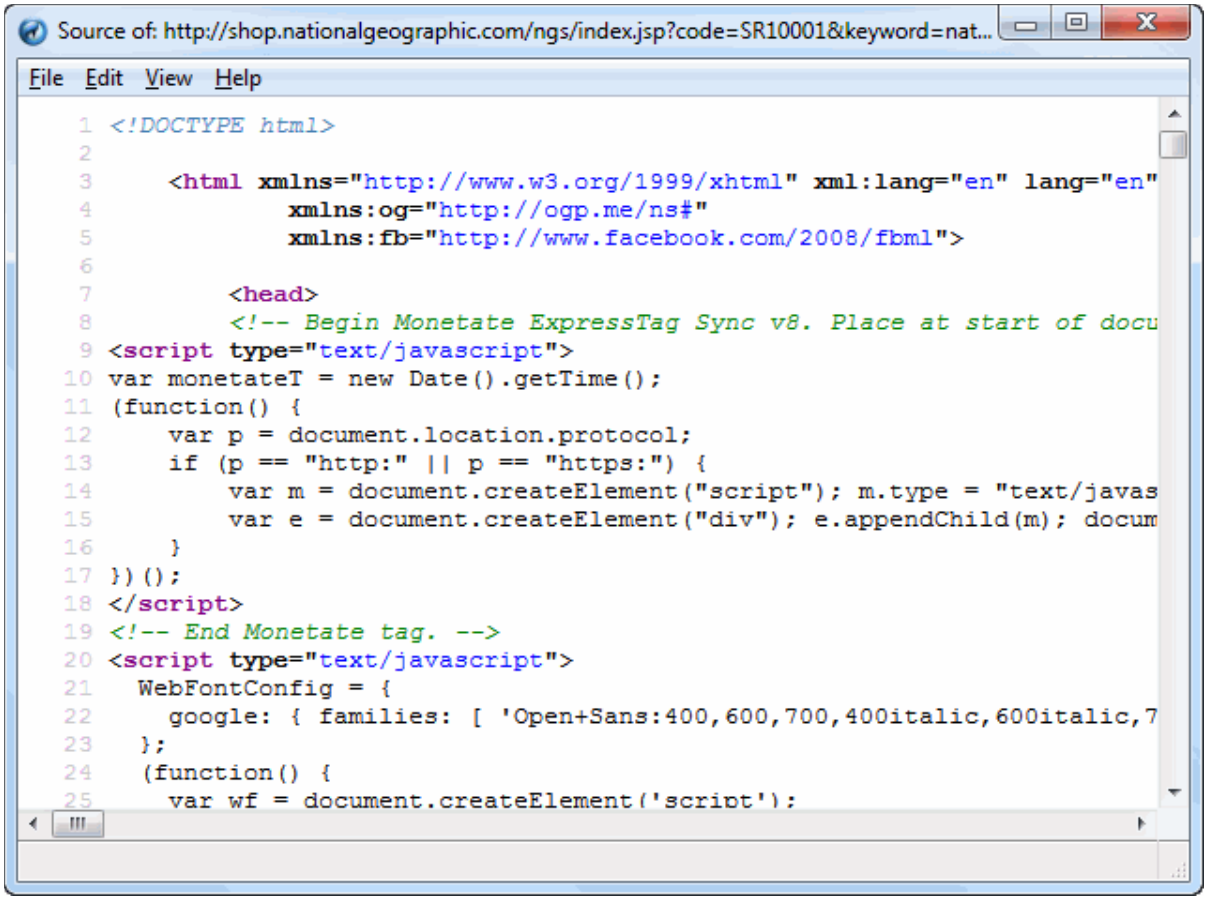
11.14. View Page Source

Comodo IceDragon enables you to view the source code of the wepage you are viewing. This is useful for web developer to analyze the codes and style rules while they are developing their own web pages.

To view the page source

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer > Page Source

The page source will be displayed in a new window.



11.15. Add More Web Development Tools

In addition to the built-in web development tools, a number of tools, which can be added to the browser are developed world wide. You can add these as add-ons to your browser.

To add more web development tools

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer > select 'Get More Tools' from the options

You will be taken to the add-ons page from which you can download the web development tools add-ons. Refer to **Installing Add-ons** for more details on downloading and installing the add-ons.

11.16. Working Offline

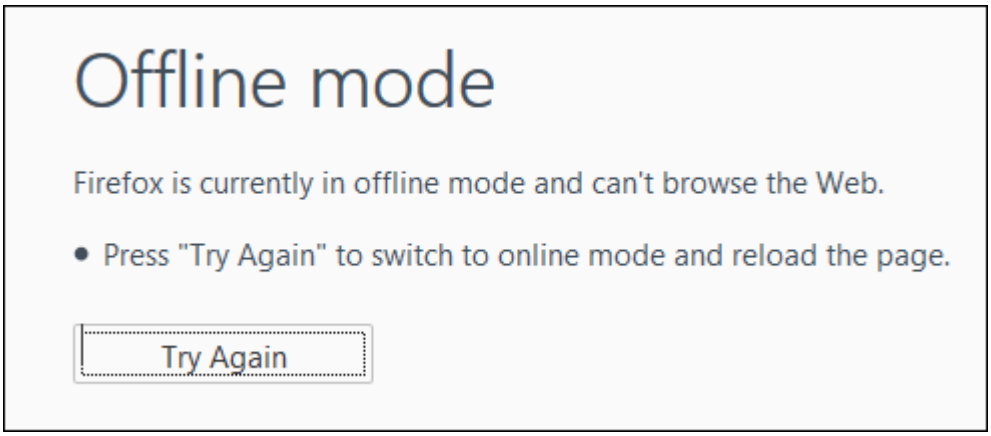
In offline mode you are not connected to the internet but will be to view cached and saved web pages.

You can

- View cached and saved web pages.
- Open locally saved files and images
- Configure Ice Dragon

You cannot

- Access the internet
- Send/receive new mail



To disable offline mode

- Click the IceDragon menu located at the top right corner of the browser
- Click 'Developer > uncheck 'Work Offline'

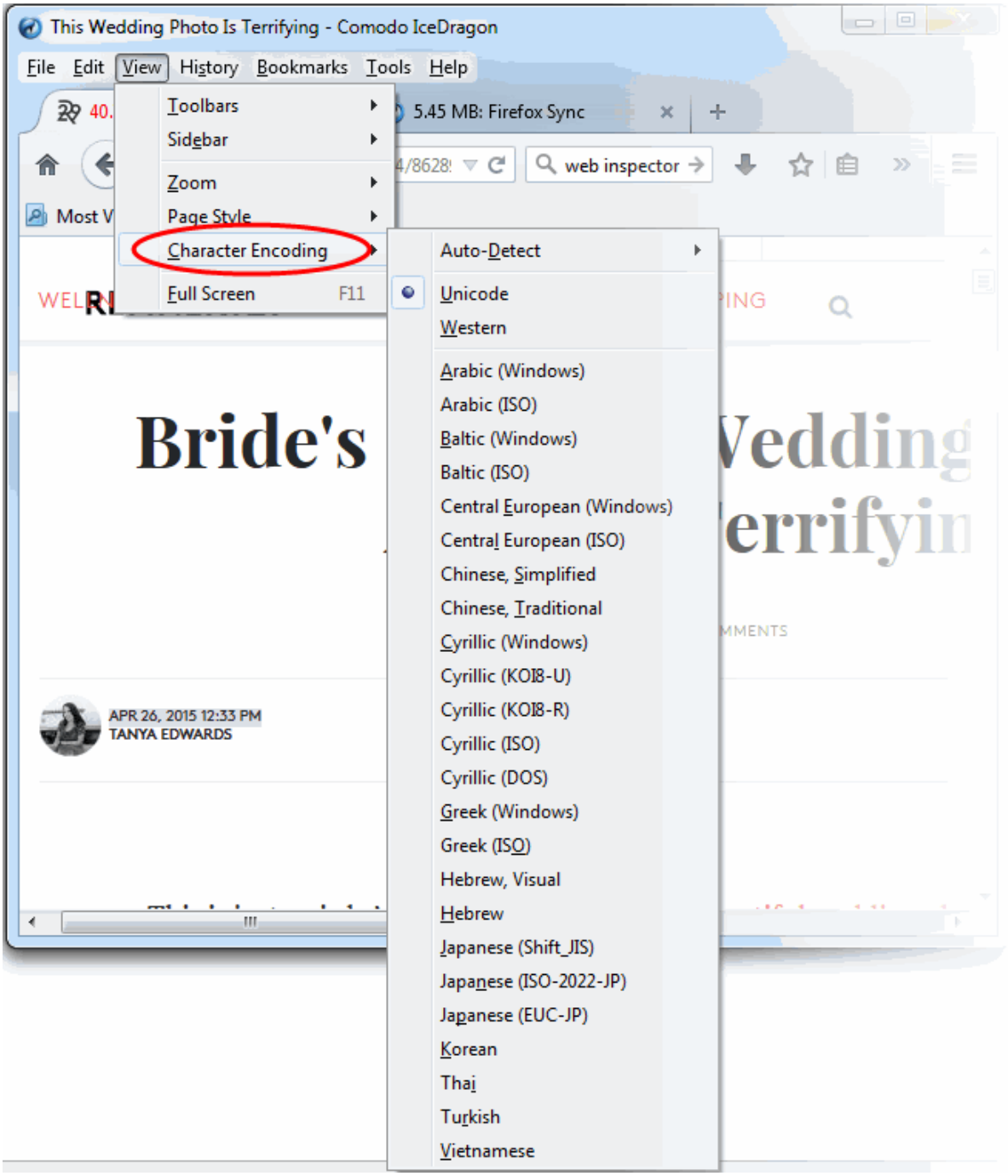
  or
- Click 'File > uncheck 'Work Offline'

11.17. Enabling Character Encoding from the Web Developer Console

Comodo IceDragon automatically chooses fonts Unicode ranges, refer to **Setting Fonts, Languages and Encoding** but you can specify the font that you want IceDragon to use.

To enable character encoding

- Click the 'View' menu
- Select 'Character Encoding' from the options.



12. Troubleshooting

This section briefs you on how to resolve problems that might arise when you are using Comodo IceDragon. Click the following link to know more:

- **Error: ""This Connection is Untrusted"**

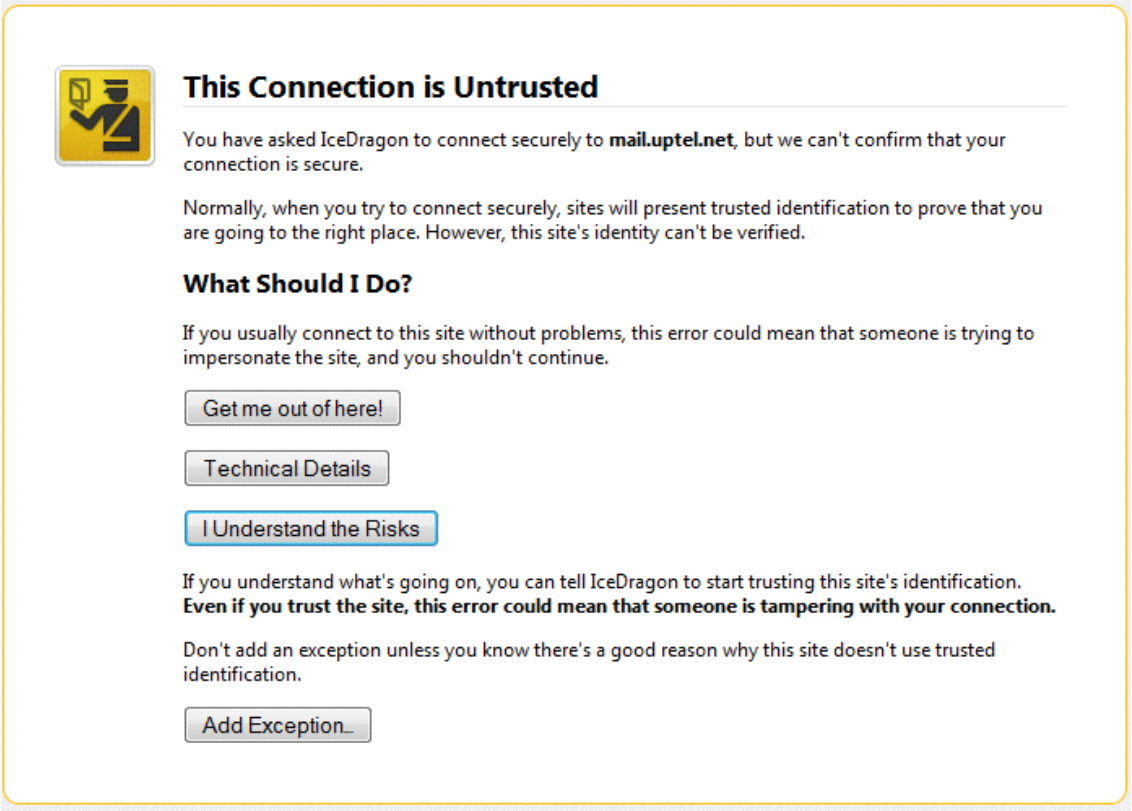
12.1. Error: ""This Connection is Untrusted"

You may find your computer screen throwing up error messages when IceDargon is not able to verify the certificate with the website while using the browser.

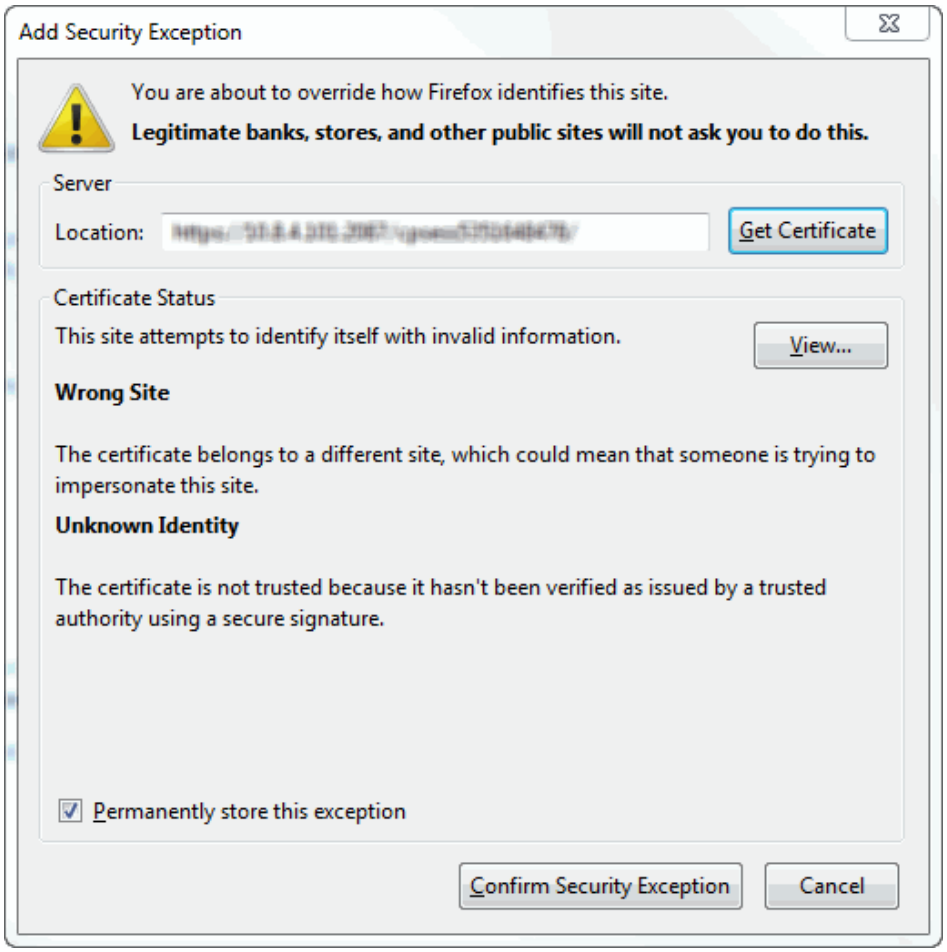
- **To cancel the error message**
- **To install the certificate authority (MIT CA)**
- **To set the CA**

To cancel the error message

- When the error will appear click on “I Understand The Risks”
- Click the “Add Exception” button



The 'Add Exception' dialog will open.



- The 'View' button opens the 'Certificate Viewer' with full info selected cert
- Check the 'Permanently store this exception' box to trust the certificate and store. This tick also cancel the screen again for the next visit.

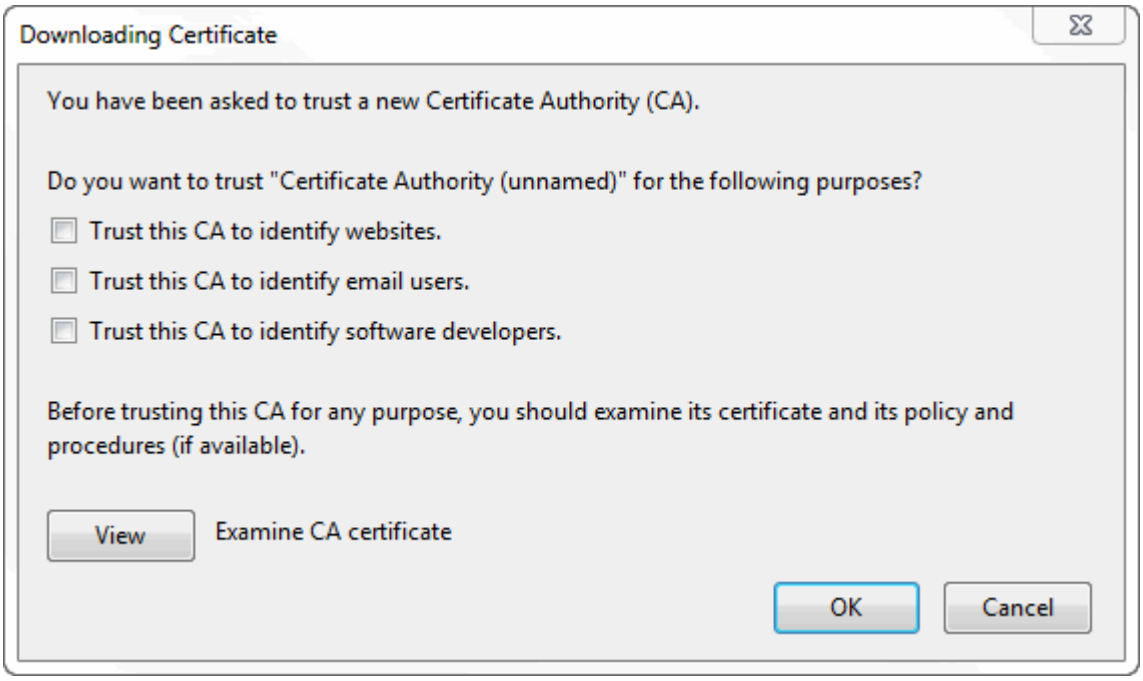
- Click the 'Get Certificate' button
- Click the 'Confirm Security Exception' button.

Alternatively, you can edit the setting for the CA

- Click the IceDragon menu located at the top right corner of the browser
- Open the Options menu > select the Advanced tab > Encryption under the 'Certificates' section select 'View Certificates' button
- Click the 'Authorities' and find the MIT CA
- Select the MIT CA > click 'Edit Trust'
- Check the box to allow the CA to identify websites.

Install the certificate authority (MIT CA)

- Download the MIT CA (Certificate Authority)
- The 'Certificate Authority' dialog will open
- Check the 'Trust this CA to identify websites' and press 'OK'



- View button opens the 'Certificate Viewer' with full info of selected cert
- Trust this CA to identify websites - Check the box if you trust the CA to issue certificates for Web site certificates that handle e.g., financial transactions
- Trust this CA to identify email users - If you send email users confidential information in encrypted form to identify prospective certificate owners
- Trust this CA to identify software developers - Check the box if you trust the CA to issue certificates that identify the origin of Java applets and JavaScript scripts.

The CA will be installed in IceDragon. Try again to access the site.

13. Report a Bug

Comodo continually updates its products and intends to keep them bug-free. If you find any bug or have questions, please submit a bug report post them in the Feedback section of the Comodo IceDragon forum at:

http://forums.comodo.com/bug-reports-cid-b284.0/

If you haven't done so already, please create an account before posting.

About Comodo

The Comodo organization is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Building on its unique position as the world's largest certificate authority, Comodo authenticates, validates and secures networks and infrastructures from individuals to mid-sized companies to the world's largest enterprises. Comodo provides complete end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats, both known and unknown. With global headquarters in Clifton, New Jersey, and branch offices in Silicon Valley, Comodo has international offices in China, India, the Philippines, Romania, Turkey, Ukraine and the United Kingdom. For more information, visit **comodo.com.**

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