

## Reviewer's Guide



mozilla  
**Firefox**® 3

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## 1. About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. We work in the open with a highly disciplined, transparent, and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation.

## 2. Introducing Mozilla Firefox® 3

Firefox 3 is the fastest, leanest, most powerful browser Mozilla has ever released. With over 14,000 improvements, including the revolutionary smart location bar, malware protection, and extensive under the hood work, Firefox 3 delivers the Web without compromise. It uses significantly less memory and is overall two to three times faster than Firefox 2.

At the heart of Firefox is a global, open source development process driven by a large community of passionate contributors: thousands of experienced developers, security experts, localization and support communities in over 40 countries, and tens of thousands of active testers. Our transparency and active community of experts help to ensure our products are more secure and are updated quickly.

Over 5,000 add-ons are available to customize Firefox: add functionality or change the browser's appearance directly from the Add-ons Manager.

Firefox is available for Windows, Mac OS X and Linux in over 40 languages, more platforms and languages than any other browser.

## Firefox 3 Features

|                          |          |                       |          |
|--------------------------|----------|-----------------------|----------|
| <b>Key Features</b>      |          | <b>Security</b>       |          |
| ■ Smart Location Bar     | New      | ■ Malware Protection  | New      |
| ■ One-click Bookmarks    | New      | ■ Phishing Protection | Improved |
| ■ Tags                   | New      | ■ Instant Web Site ID | New      |
| ■ Library                | New      | ■ Password Manager    | Improved |
| ■ Smart Bookmark Folders | New      | ■ Add-ons Security    | Improved |
| ■ Add-ons Manager        | Improved | <b>User Interface</b> |          |
| ■ Download Manager       | Improved | ■ Full Page Zoom      | New      |
| <b>Under the Hood</b>    |          | ■ Native Look & Feel  | Improved |
| ■ Gecko 1.9 Engine       | New      | ■ Tabbed Browsing     | Improved |
| ■ Performance            | Improved |                       |          |
| ■ Web Standards Support  | Improved |                       |          |

## Firefox Core Features

What our users have been enjoying from previous releases:

|                           |                      |
|---------------------------|----------------------|
| ■ Session Restore         | ■ Pop-up Blocker     |
| ■ Accessibility           | ■ Clear Private Data |
| ■ Built-in Spell Checking | ■ Automated Update   |
| ■ Integrated Search       |                      |

Download Firefox 3 now at [GetFirefox.com](http://GetFirefox.com)



### 3. What's New In Firefox?

Firefox 3 is built to provide users with the best possible browsing experience. After almost three years of extensive development work, we are proud to showcase exciting new features and tremendous improvements in performance, stability, and reliability. The result is that Firefox is faster, safer, and more customizable than ever.

Here is a list of what is new and improved in Firefox 3:

#### 3.1 Key Features

##### Smart Location Bar New

Affectionately referred to as the “awesome bar,” the new Firefox 3 location bar learns as you use it, adapting to your preferences and making your browsing experience more personal.

Type in text and the auto-complete function displays possible matching sites from your browsing history, bookmarks, and tags. For example, enter “music” and you will see a list of all the sites you have visited or bookmarked that contain the word music in their URL or page title. You will also see the sites you tagged with the word “music.”

For each match, Firefox shows you the site’s address, title, site icon, whether it was bookmarked or tagged, and highlights the matching portion of what you typed. This makes it easy to scan the list and quickly identify the site you want to visit.



##### One-click Bookmarks New

A quick and easy way to save and identify the pages that interest you. Bookmark pages with a single click on the star icon in the location bar. When you go to a bookmarked page, the star will light up to remind you that it is bookmarked. Two clicks and you can choose where to save it and whether to tag it. File and organize bookmarked sites in easy-to-access folders.

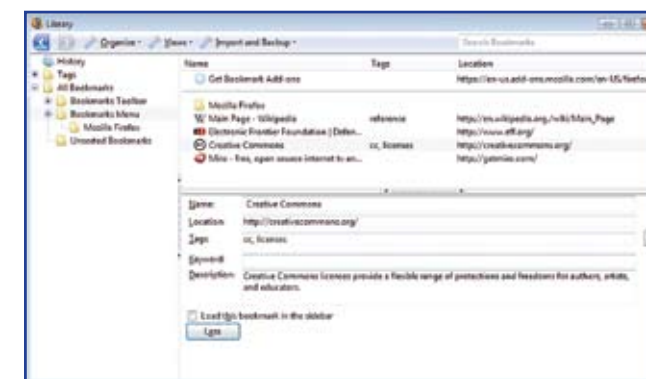


##### Tags New

Label bookmarks by topic to keep track of your favorite sites. Simply click on the star icon to add a tag to a given page. Use tags to sort, search and retrieve bookmarks from the Library or directly from the location bar.

##### Library New

Keep track of browsing history and bookmarks with the new Library. Find sites in history and bookmarks, sorting them by name, tag or visit date. Save your searches as Smart Bookmark Folders. Built-in backup and restore functionality provides additional peace of mind.



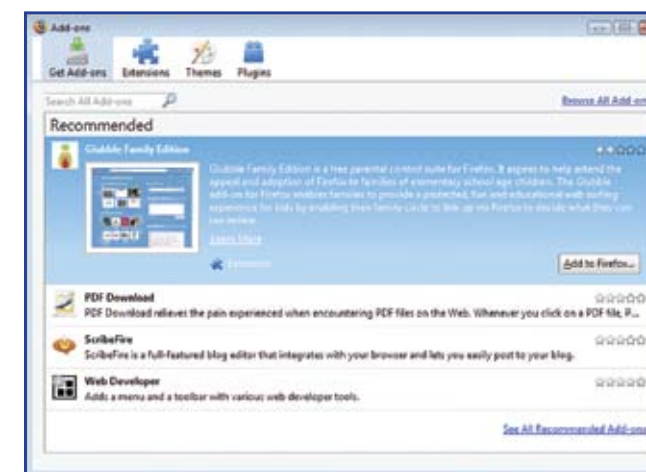
##### Smart Bookmark Folders New

Find things fast with Smart Bookmark Folders. Click on the “Most Visited” folder on the bookmark bar for a list of your most frequently visited sites.

##### Add-ons Manager Improved

Firefox is the most customizable browser on the planet. With over 5,000 add-ons available and new ones developed every day, you can add features to Firefox or simply change its appearance. In Firefox 3, you can view and install add-ons directly from the browser.

Access the Add-ons Manager by clicking on Tools->Add-ons. The Mozilla community at addons.mozilla.org helps you select the right add-on through ratings, recommendations, descriptions, and images.

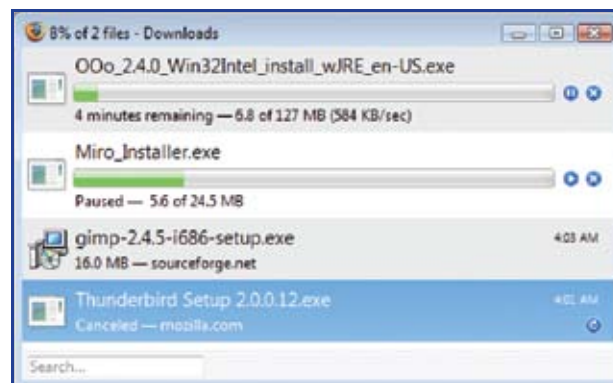




### Download Manager Improved

Completely redesigned, the new Firefox Download Manager includes powerful search capabilities and a new user interface, making it easy to find and open active and past downloads. You can also resume interrupted downloads, whether they were paused voluntarily or stopped accidentally...no more waiting for a download to finish before you can disconnect from the network. You can also monitor your download progress in the status bar of the main browser window.

On Windows systems, Firefox keeps you and your family safe by using your anti-virus scanner to check all downloads. Firefox also observes any parental control settings on Windows Vista.



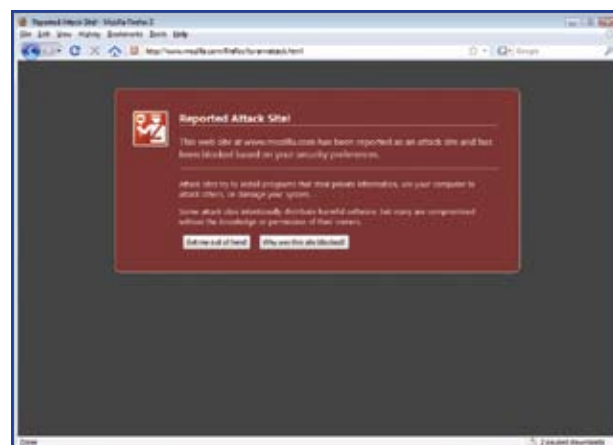
## 3.2 Security Features

Firefox 3 offers users a safer way to browse. It provides a simple interface and easy-to-understand messages so users can make informed decisions about online security.

### Malware and Phishing Protection New

A first in browsers, malware protection improves the existing anti-phishing defenses introduced in Firefox 2. Phishing protection already warned you when a site was a suspected Web forgery. This new malware protection prevents you from accessing sites reported to try to attack your computer with viruses, spyware, trojans or other malware. The list of phishing and malware sites is updated every 30 minutes.

Test malware and phishing protection:  
<http://www.mozilla.com/firefox/its-a-trap.html>  
<http://www.mozilla.com/firefox/its-an-attack.html>



### Instant Web Site ID New

Firefox 3 provides easy access to the site identity information already available on millions of Web sites. Simply click on the site's icon in the location bar to the left of the URL. The new feature helps you know whom you're dealing with online.

When a site provides verified identity information (in an Extended Validation SSL certificate), Firefox displays the name of the organization operating the site directly in the URL bar. A single click gets you access to the name and physical location of the site's owner.

Click on "More Information" to view extensive details of your relationship with the Web site. Check if you've been to the site before, if it's storing cookies and if you have saved passwords for it. This is designed to help you make informed decisions online.



### Password Manager Improved

The completely re-engineered password manager lets you save and manage passwords without interrupting your work. You can wait until you successfully log into a site before deciding if you want Firefox to remember your password.



### Add-ons Security Improved

In Firefox 3, add-ons can be installed only if they can be securely updated. Firefox automatically checks the installed versions of add-ons and alerts you if new versions are available. Also, Mozilla can now disable add-ons and plugins that are known to introduce a privacy or security concern.



### 3.3 User Interface

Firefox 3 offers many user interface improvements, large and small, to help you browse the Web in comfort and style.

#### Full Page Zoom New

View every important detail by zooming in or out of the entire page, scaling the text, layout and all images. Firefox will remember your zooming state the next time you visit the page.



Default

#### Native Look & Feel Improved

The new Firefox looks and feels like home on every platform. Whether you use Windows Vista, Mac or Linux, the browser seamlessly integrates into your computer's environment. New icons, widgets, and platform-specific features make Firefox 3 look and feel like it came installed with your computer.



Windows Vista



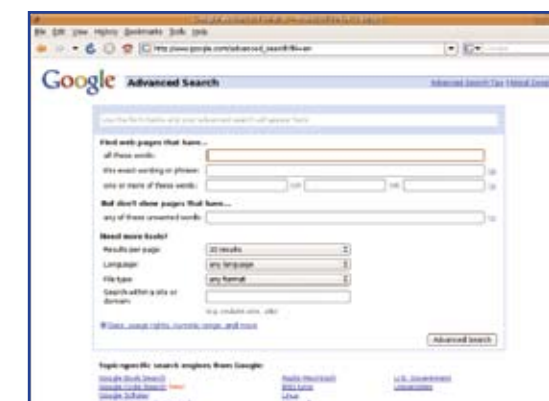
Zoom In



Zoom Out



Mac OS X



Linux

#### Tabbed Browsing Improved

Firefox 1 popularized tab browsing. Firefox 2 allowed you to recover tabs after a system crash or a power failure. Firefox 3 allows you to save your tabs whenever you exit and to access any tab quickly with smooth scrolling.



## 4. Under the Hood

Firefox 3 is built on the powerful new Gecko 1.9 engine. After almost three years of development and more than 14,000 contributions from thousands of community members, the Gecko engine has been completely overhauled to run today's most demanding Web applications. In Firefox 3, intensive applications run two to three times faster than in Firefox 2, while consuming less memory.

### Gecko 1.9 Engine New

Gecko 1.9 includes many improvements to the Web page rendering engine and graphics infrastructure, including smoother rendering of fonts, improved SVG support, and a redesigned HTML rendering engine. This extensive development work results in improved performance, efficiency, and consistency across platforms.

### New Graphics Engine

The new engine adds advanced graphics capabilities to Gecko, allowing for high performance rendering of rich and graphically intensive applications on all major platforms. Significant rendering improvements include smoother shapes, rotated and scaled images, and high quality text. Based on the open source Cairo library, Gecko's new graphics core is the underlying technology behind the full-page zoom included in Firefox 3.

### Smoother Font Rendering

Firefox is localized in over 40 languages and now provides superior rendering of fonts, in particular for languages that require complex script and ligatures, such as Thai or Arabic.

### Improved SVG Support

Available since Firefox 1.5, Scalable Vector Graphics support is enhanced in Firefox 3 to include new text capabilities, as well as new lighting and tile filters, allowing Web designers to create rich graphics for their sites. SVG rendering is also two to three times faster than in Firefox 2.

### New APNG Support

Animated Portable Network Graphics files are now supported, allowing easy animations with a full range of color and transparency.

### New ICC Color Profiles Option

Users can optionally turn on support for International Color Consortium color profiles to make it possible to exactly match colors on the Web with print.

### Re-engineered HTML Rendering Engine

The Gecko HTML rendering engine has been improved to provide faster and more efficient layout of Web pages. Firefox passes the Web Standards Project's ACID 2 test, which checks browser compliance to some of the HTML and CSS 2.1 specifications of the W3C.

### Performance Improved

#### Two to Three Times Faster

Gecko 1.9 provides significant performance improvements to Firefox, making Firefox 3 two to three times faster than Firefox 2 overall. This upgrade was made possible by almost three years of under the hood work, including a combination of architectural changes, new developments, and extensive testing and fine-tuning.

The performance improvements are particularly noticeable in the case of complex Web-based applications like Google Mail and Zoho Office. Firefox 3 is twice as fast as Firefox 2 at logging into Google Mail, and two to three times as fast at loading and showing a message. Tests run on Mac Minis and MacBookPro platforms (running Windows Vista and OS X) showed that switching between messages in Google Mail now takes less than 100ms, which feels instantaneous to users.

#### Improved Memory Management

Firefox 3 and Gecko 1.9 are optimized to use less memory, particularly when run over an extended period of time. The new XPCOM cycle collector maintains and collects unused memory to keep memory usage under control. Additionally, after thorough testing and tuning, the advanced memory allocator JEMalloc has been ported from FreeBSD. Finally, hundreds of memory leaks have been fixed.

### Web Standards Support Improved

Firefox 3 and Gecko 1.9 support the latest Web standards, allowing Web site developers to create rich online experiences.

#### Web Based Protocol Handlers

Users can allow specific Web applications to register as default handlers for email or calendaring. For example, if Web application A is registered as an email handler, and the user clicks on a mailto: link on a site, Web application A will open to compose a message. In the past, the user's desktop email application would have opened.

#### Offline Storage

Firefox 3 provides offline storage support, so Web authors can store data on a user's system. A Web application developer taking advantage of this support can make a service available for offline use.

#### JavaScript 1.8

Firefox boasts the most refined JavaScript engine around. Firefox 3 takes things a step further, bolstered by some of the new JavaScript 2 version enhancements, including expression closures, generator expressions, and array reduce.

#### ContentEditable

Support for the ContentEditable attribute makes it easier for Web developers to create read/write applications.

#### Microformats

Native support for microformats allows add-ons to extract and handle metadata through a special API.



## 5. Firefox Core Features

In addition to all the new enhancements, Firefox is filled with powerful existing features that make browsing better, faster, and more secure. These include user favorites, such as a built-in pop-up blocker, spell checking, and session restore.

### Session Restore

If Firefox shuts down unexpectedly, your tabs and windows will be preserved and restored when you restart.

### Accessibility

Firefox delivers a better browsing experience for everyone - including those who are visually impaired. Firefox includes support for DHTML accessibility. Web developers can create pages that reduce the amount of tabbing required to navigate a document. This minimizes keystrokes for those with mobility disabilities.

### Built-in Spell Checking

Firefox automatically checks the spelling of any text you enter into Web pages, including emails and online documents.

### Integrated Search

Search the Web directly from your browser. Choose a search engine from the drop-down menu or add your favorite one, and enjoy suggested terms as you type in your query. Wikipedia is now available as an option for integrated search. Under Manage Search Engines, you can associate smart keywords with specific search engines.

### Pop-up Blocker

Choose when and if you wish to view pop-ups using the notification bar.

### Clear Private Data

Remove all private data with one click from the Tools menu. Whether using your computer or a shared one, you can be confident that when you clear private data in Firefox it's gone.

### Automated Update

The automated update system notifies you when a new version of Firefox is available. These security and stability updates ensure that you enjoy the best possible browsing experience. Updates are available for all platforms in all supported languages.