

Toolbar Button Graphics Recommendations

(Firefox, Chrome, Safari, Internet Explorer)

Firefox Buttons

.png format

Bolded numbers below are the minimum suggested list of Icon sizes that should be included.

These can contain transparent attributes.

- **16x16** – used for legacy default toolbar button size.
- **18x18** – used for Toolbar Icon non-HiDPI.
The toolbar area has space 18x18 pixels for each button icon.
- **24x24** – used for customize toolbar area, if Toolbar button is hidden by dragging it into the customize toolbar box. The Toolbar button will then appear using the 24x24 graphic size.
- **32x32** – used for menu panel Icon non-HiDPI. (For the Add-on extension list, where all installed extensions are displayed.
The menu panel area has space for 32x32 pixels per icon.
- **36x36** – used for Toolbar Icon HiDPI.
- **64x64** – used for menu panel icon HiDPI. (Also for Add-on extension list. For legacy versions of Firefox, this will be reduced to 48x48 for use on the extension list.

Source: [https://developer.mozilla.org/en-US/Add-ons/SDK/Level-APIs/ui-button-action#ActionButton\(options\)](https://developer.mozilla.org/en-US/Add-ons/SDK/Level-APIs/ui-button-action#ActionButton(options))

Chrome Buttons

According to the Google website – “Icons should generally be in PNG format, because PNG has the best support for transparency. They can, however, be in any format supported by WebKit, including BMP, GIF, ICO, and JPEG.” (<https://developer.chrome.com/apps/manifest/icons>)

“You may provide icons of any other size you wish, and Chrome will attempt to use the best size where appropriate. For example, Windows often requires 32-pixel icons, and if the app includes a 32-pixel icon, Chrome will choose that instead of shrinking a 48-pixel icon down. However, you should ensure that all of your icons are square, or unexpected behavior may result.”

The following Icon sizes are recommended:

- **16x16** – extension’s favicon
- **19x19** – default Toolbar Button Icon size.
- **32x32** – for Windows purposes. If a shortcut is added to the desktop for a webpage, then the 32x32 size will be used. If not available, Chrome will reformat another icon size to 32x32.
- **38x38** – large default toolbar button icon
- **48x48** – used by the Extensions Management Page (chrome://extensions), to display logo next to the Extension Name.
- **64x64** – optional
- **128x128** – used by the Chrome Browser Installation and Removal prompts, and the Chrome Web Store.

Safari Buttons

.png format

- **16x16** – for toolbar button. Most of the icon will be transparent. The pixels for the center part of the logo that should be displayed, can be drawn with either 256 or 16 colors.
- **24x24** – for toolbar button, if a large font size is being used. Same characteristics as 16x16.
- **32x32** – for the Extensions panel. Since colors can be used for this graphic, there is no need for transparency. 256 colors work well.

Apple explains the Icon color formatting in further detail at:

<https://developer.apple.com/library/safari/documentation/Tools/Conceptual/SafariExtensionGuide/AddingButtonsToTheMainSafariToolbar/AddingButtonsToTheMainSafariToolbar.html>

Internet Explorer

.ico format

256 or 16 colors are recommended, depending on planned backward browser compatibility.







16x16 – Small Toolbar/Commandbar button size

24x24 – Large Toolbar/Commandbar button size

The FirstButton for Internet Explorer Installer documentation suggests additional Icon sizes (20x20, 32x32, and 48x48) in its collection – these are used for additional Windows purposes.

(Windows includes the numbers as part of the string designating the location of the icon for Internet Explorer).

All of the below .ico files contain multiple icons, sized at 16x16, 20x20, 24x24, 32x32, and 48x48.

- 1 For IE7, IE8, IE9, IE10, IE11 (desktop mode), this value is used for HotIcon and Icon sources
For IE6, on Windows XP, this is used for Icon value for Toolbar Button (256 colors)
(contains icon sizes 16x16, 20x20, 24x24, 32x32, 48x48) 
- 2 For IE6, on Windows XP, this is used for HotIcon value for Toolbar Button (256 colors, but grey toned)
(contains icon sizes 16x16, 20x20, 24x24, 32x32, 48x48) 
- 3 For Windows 2000, IE 5.5 or 6, this is used for Icon (256 colors, suitable to IE6)
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 
- 4 For Windows 2000, IE 5.5 or 6, this is used for HotIcon [Mouse is over Toolbar Button]
(256 colors, but grey toned)
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 
- 5 For Windows 98, Me, or NT, this is used for Icon value for Toolbar Button (16 colors)
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 
- 6 For Windows 98, Me, or NT, this is used for HotIcon [Mouse is over Toolbar Button]
(16 colors, but grey toned)
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 

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Liquidity Lighthouse, LLC
PO Box 211091
Bedford, TX 76095



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