

The following Voluntary Product Accessibility information refers to **Apple Safari 5.1 on Mac OS X 10.7**. For more information on the accessibility features of **Mac OS X and Safari**, visit Apple's accessibility web site at <http://www.apple.com/accessibility>

Summary Table Voluntary Product Accessibility Template

Criteria	Supporting Features	Remarks and explanation
Section 1194.21 Software applications and operating systems.	Please refer to the attached VPAT	
Section 1194.22 Web-based intranet and internet information and applications.	Not Applicable	
Section 1194.23 Telecommunications products.	Not Applicable	
Section 1194.24 Video and multimedia products.	Not Applicable	
Section 1194.25 Self contained closed products.	Not Applicable	
Section 1194.26 Desktop and portable computers.	Not Applicable	
Section 1194.31 Functional performance criteria.	Please refer to the attached VPAT	
Section 1194.41 Information, documentation, and support.	Please refer to the attached VPAT	

Subpart B -- Technical Standards

Section 1194.21 Software Applications and Operating Systems – Detail

Criteria	Supporting Features	Remarks and explanations
<p>(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.</p>	<p>Supported</p>	<p>Safari on Mac OS X is accessible to keyboard-only users. A Mac OS X feature called “full keyboard access” can be used to navigate Safari.</p> <p>Safari offers Keyboard navigation options, including:</p> <ul style="list-style-type: none"> • The Tab key can be used to navigate to password fields, pop-up menus, or input fields in webpages. • Holding the option key while pressing the Tab key highlights each item on a webpage. • Pressing the Return key opens the highlighted link. <p>Safari on Mac OS X also works with VoiceOver, a screen reader built into Mac OS X that provides keyboard control of Safari using a VoiceOver cursor. VoiceOver can navigate to and read Safari menus, toolbar buttons, webpage titles, URLs, text on webpages, and other elements on webpages.</p>
<p>(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.</p>	<p>Supported</p>	<p>Safari is built into Mac OS X. Mac OS X includes an accessibility API that enables applications to interact with assistive technologies without disrupting the system or each other.</p> <p>In addition, Safari supports Accessible Rich Internet Applications (ARIA). The ARIA standard helps web developers make websites interoperable with assistive technologies.</p>
<p>(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.</p>	<p>Supported</p>	<p>Safari on Mac OS X provides a clear and distinct visual indication of the mouse and keyboard focus onscreen. When a user encounters a webpage with a form, Safari provides a well-defined onscreen cursor indication of the form fields.</p> <p>Safari users can opt to use keyboard functions to change the focus in Safari and in webpages.</p>

Criteria	Supporting Features	Remarks and explanations
(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.	Supported with exceptions	<p>Most buttons and controls in Safari on Mac OS X are accompanied by text descriptions for the button or control. In a few but rare cases, some buttons and controls may not include names or reflect their state.</p> <p>VoiceOver on Mac OS X enables users to assign labels to unlabeled buttons and controls, and save them to a file where they can be shared and imported to and from other Mac computers running Mac OS X 10.6 or later.</p>
(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	Supported	Images in Safari are used in a consistent manner.
(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	Supported	The Safari Reader feature presents webpages in a text-only format that allows VoiceOver to read the text of articles without interruptions from other elements on the webpage.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported	<p>Mac OS X uses system-level control of display characteristics that cannot be overridden by applications, including Safari, such as:</p> <ul style="list-style-type: none"> • Users can switch the display to White on Black from Black on White. • Users can switch the display from color to grayscale. • Users can enhance or reduce the contrast of the display using a slider. • Users can magnify the screen. <p>All of these features can used with Safari on Mac OS X and are accessed through the Universal Access system preference. They can be used together in different combinations to suit the user's needs.</p> <p>Safari also supports custom style sheets for webpages, so that users can customize website fonts, font sizes, colors and contrast for greater readability.</p>

Criteria	Supporting Features	Remarks and explanations
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p>Supported with exceptions</p>	<p>An animation in the URL field shows the progress of page loading. When the animated progress bar in the URL field completes, the button in the right of the URL field changes from an "X" to a reload button to indicate completion. The animation provides information about the progress of page loading, but is not instrumental to the action of loading or reloading webpages. To reload webpages, users can use the "Command-R" keyboard shortcut, the "Reload Page" item in the View menu, or click the reload button in the URL field.</p> <p>An animation appears in Safari to indicate that a download from the web has been initiated, and another animation shows the progress of the download. After a download is completed, the download button changes from an in-progress Safari download icon to the actual file icon. Users can click the icon to view downloads.</p> <p>An animation appears in Safari when a user adds a webpage to the Safari Reading List, but is not instrumental to the action of adding a webpage. Users can click on the "+" button in the URL field to add a webpage to Reading List, shift-click a link in a webpage, or click the "Add Page" button in the Reading List. An animation indicates that a webpage has been added to the Reading List, but a user can also open the Reading List to see the newly added webpage.</p>
<p>(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p>Supported</p>	<p>Color controls are used in Safari windows that allow a user to close, minimize, or maximize a window. While the color indicates each control's function, each control has a unique symbol that indicates its function without relying on color information.</p>
<p>(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.</p>	<p>Supported</p>	
<p>(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Supported</p>	

Criteria	Supporting Features	Remarks and explanations
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Supported	Forms in webpages viewed in Safari can be completed with the VoiceOver feature in Mac OS X.

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Subpart C -- Functional Performance Criteria

Section 1194.31 Functional Performance Criteria – Detail

Criteria	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supported	Safari on Mac OS X is compatible with VoiceOver. VoiceOver is a built-in screen reader for the blind and visually impaired. VoiceOver includes built-in voices that speak 22 languages.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supported	<p>Safari on Mac OS X works with the full-screen zoom zoom within a window features built into Mac OS X. Safari also supports many features that assist users with low vision, including but not limited to:</p> <ul style="list-style-type: none"> • Gesture zoom: With a Trackpad, users can pinch or double-tap to zoom webpages in Safari. • Keyboard zoom: Keyboard shortcuts allow users to zoom webpages in Safari. Users can also choose to zoom text only. • The VoiceOver Web Rotor works with Safari and displays frequently-used items on webpages, such as links and headers, in separate lists for easier webpage navigation. • The VoiceOver feature works with Safari and displays key webpage elements and automatically creates virtual tags, called web spots, to mark them.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided	Supported	<p>Mac OS X audio features and settings work with webpages in Safari that have audio media elements and can assist users with low hearing.</p> <ul style="list-style-type: none"> • Keyboard volume controls adjust the volume of media in webpages. • The Sound pane in Mac OS X System Preferences allows users to adjust the volume of media in webpages. • Safari has closed caption support for video. If a video embedded in a webpage using the HTML5 <video> tag includes closed captions, a user can click the CC button in the video controls to display them.
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Not Applicable	

Criteria	Supporting Features	Remarks and explanations
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.	Supported	
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supported	<p>Safari on Mac OS X is compatible with Mac OS X Universal Access features, which assist users who do not have fine motor control and cannot perform simultaneous actions easily.</p> <p>Multi-Touch Gestures in Safari on Mac OS X can be used with a Multi-Touch trackpad instead of and in addition to mouse controls. Multi-Touch Gestures in Safari on Mac OS X 10.7 allow users to zoom and navigate back and forth between webpages by tapping, pinching, and swiping. Multi-Touch gestures can be used on a trackpad on a MacBook, a Magic Trackpad, or a Magic Mouse.</p>

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Subpart D -- Information, Documentation and Support

Section 1194.41 Information, Documentation and Support – Detail

Criteria	Supporting Features	Remarks and explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge	Supported	Safari product information is available online in an accessible HTML format, and in the Apple Knowledge Base at http://www.apple.com/support/ and in the Safari product page at http://www.apple.com/safari/ . Information about product accessibility and compatibility is available at: http://www.apple.com/accessibility/
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supported	Safari product information is available online in an accessible HTML format, and in the Apple Knowledge Base at http://www.apple.com/support/ and in the Safari product page at http://www.apple.com/safari/ . Information about product accessibility and compatibility is available at: http://www.apple.com/accessibility/
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	Support via the Internet is available through the Apple Knowledge base at http://www.apple.com/support/ . For additional information on the many service and support options offered by Apple, visit http://www.apple.com/support/ .

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