

# HTML for iOS (iPod / iPad / iPhone) Web Apps

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## HTML for iOS (iPod / iPad / iPhone) Web Apps

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#### Using <meta name="viewport"/> to Control Zoom in Mobile Browsers

The [`<meta name="viewport"/>`](#) meta tag can be used to control how HTML content will be displayed on a mobile device. It contains a comma-separated list of properties in the form `<var>name</var>=<var>value</var>` as in:

```
<var mode="pre">name</var> =<var mode="pre">value</var> , <var mode="pre">name</var> =<var mode="pre">value</var>
```

The "`<var>value</var>`"s are *not* enclosed in quotation marks.

#### <meta name="viewport"/> Properties

##### width

`width=device-width` or `width=nnn` where *nnn* is the number of pixels between 200 and 10000 such as in `width=980` (default)

##### height

`height=device-height` or `height=nnn` where *nnn* is the number of pixels between 223 and 10000

##### minimum-scale

`minimum-scale=f.ff` where *f.ff* is a floating point number between 0.0 and 10.0 such as in `minimum-scale=0.25` (default)

##### maximum-scale

`maximum-scale=f.ff` where *f.ff* is a floating point number between 0.0 and 10.0 such as in `maximum-scale=1.6` (default)

##### initial-scale

`initial-scale=f.ff` where *f.ff* is a floating point number between minimum-scale and maximum-scale

##### user-scalable

`user-scalable=yes` (default) to allow the user to zoom in or zoom out on the web page or `user-scalable=no` to prevent the user from zooming in or zooming out

Note that when a size is specified in pixels, it is not necessarily the number of actual pixels on the device which can vary from one device to another. It is the number <dfn>reference

~~pixels~~, which is defined in CSS as ~~the visual angle of one pixel on a device with a pixel density of 96dpi and a distance from the reader of an arm's length.~~ This allows a web site to be displayed the same on devices with different screen sizes and pixel density.

See [Using <meta name="viewport"/> to Control Zoom in Mobile Browsers](#) for some examples.

## <html manifest> attribute

The [manifest attribute](#) on the [`<html>` tag](#) specifies a [URI reference](#) that resolves to the URL of an [`application cache manifest`](#), which is a list of files that can be cached for offline use.

For example:

```
<samp>index.html</samp>
```

```
<html xmlns="http://www.w3.org/1999/xhtml" manifest="/cache.manifest">
```

```
<samp>cache.manifest</samp>
```

```
# http://<a mode="pre" href="http://www.ExampleOnly.com/">www.ExampleOnly.com</a> /cache.manifest
CACHE MANIFEST
NETWORK:
*
CACHE:
/index.html
/styles/style-sheet-screen.css
/styles/style-sheet-handheld.css
FALLBACK:
/ /offline.html
```

The browser may prompt the user for permission to store the offline content, such as in Firefox:

```
 manifest attribute in Firefox"></img>
```

## Apple Touch WebClip Icon

An Apple Touch WebClip Icon is a 57-pixel by 57-pixel PNG image used when bookmarking a web site or web page on an iPhone, iPad or iPod Touch device. The icon image file to be used is loaded from the web server and is specified in a [`<link rel="apple-touch-webclip-icon"/>`](#) tag:

```
<link rel="apple-touch-icon" type="image/png" href="/apple-touch-icon.png" />
```

## Other Meta Tags for Mobile Web Apps

### [apple-touch-startup-image](#)

The `apple-touch-startup-image` meta tag specifies a startup image, which is an image that is displayed while an [offline web application](#) is being launched on the mobile device. For the iPhone and iPod Touch, the image must be in portrait orientation 320 pixels wide by 460 pixels high.

```
<link rel="apple-touch-startup-image" type="image/png"
  href="/apple-touch-startup-image.png" />
```

[back to top](#)

