

HTML5 and CSS3, Chapter 6

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Source code from book

- ▶ `http://www.aharrisbooks.net/haio/`

Main uses of images

- ▶ External link
- ▶ Embedded images
- ▶ Background images
- ▶ Custom bullets

External links

```
<h1>Linking to an External Image</h1>
<p>
  <a href = "shipStandard.jpg">
    Susan B. Constant
  </a>
</p>
```

- ▶ Are easy to create.
- ▶ They don't preview the image.
- ▶ They interrupt the flow.
- ▶ The user must use the back button to return to the original page.

Inline images

```
<h1>The Susan B. Constant</h1>
<p>
  <img src = "shipStandard.jpg"
      height = "480"
      width = "640"
      alt = "Susan B. Constant" />
</p>
```

- ▶ `` tag has only attributes, there is no ``.
- ▶ `src` can be absolute or relative.
- ▶ `height` and `width` should not be used to resize images
 - ▶ Browser can format the page before the image downloads
- ▶ `alt` used by screen readers and search engines.
 - ▶ `alt` is *required* on all images
- ▶ `` is an inline tag, so it must be inside a block tag.

Images

- ▶ My current camera's resolution: 3648×2736 .
- ▶ My computer monitor's resolution: 1680×1050 .
- ▶ Some browsers will just show you a corner of the image, with scrollbars.
- ▶ Some browsers will automatically resize the image to fit, and will show full image on click.
- ▶ Downloading and resizing large images takes time.
- ▶ Use image processing software to resize images for the web.
 - ▶ IrfanView, XnView, GimpShop
 - ▶ 320×240
 - ▶ 640×480
 - ▶ 1024×768
- ▶ Use a compressed format, such as jpg
- ▶ Learn how to do batch processing.

Image formats

gif Used for transparency or animation. Don't use for photos.

jpg Good for photos. Text in jpg can become blurry.

png Good for most situations.

svg Vector graphics, not images. Can be re-sized without loss of quality.

bmp Avoid this and other legacy formats.

Audio

```
<audio controls = "controls">  
  <source src = "Allemande.mp3" type = "audio/mpeg">  
  <source src = "Allemande.ogg" type = "audio/ogg">  
  Your browser does not support HTML5 Audio  
  Please use this link instead:  
  <a href = "Allemande.mp3">Allemande.mp3</a>  
</audio>
```

- ▶ Different browsers support different formats.
- ▶ Provide alternatives for the source.
- ▶ Anything after the sources will be used if the browser can't handle any of the available formats.
- ▶ Audio processing software:
<http://www.audacityteam.org/>

Video

```
<video src = "bigBuck.ogv"  
        controls = "controls">  
    Your browser does not support embedded video  
    through HTML 5.  
</video>
```

- ▶ Videos are extremely large.
- ▶ A better alternative is a link to YouTube.

Intellectual property

- ▶ Be sure you have permission to use images, audio, and video from the web.
- ▶ Just because you *can* embed some artwork, doesn't mean you *should*.