

Lesson 9: Adding Media

- embed: images
audio tracks
videos
inline frames

Adding Images

- **** = inline element
 - **self-containing** = empty element; doesn't wrap any other content & exists as a single tag
 - include source of image, usually url, via `src` attribute
 - describe contents of image via `alt` attribute (alternative text)
 - format: ``
- most commonly supported image formats: gif
 - jpg
 - quality images, high color counts, ideal for faster load times
 - used for photographs
 - png
 - transparencies, low color counts
 - used for icons or background patterns
- sizing images: (in html) width & height attributes w/in `` tag
(in CSS) width & height properties
 - most common practice
 - takes precedence/overrides HTML values
 - HTML format:

```
img {  
  height = # px;  
  width = # px;  
}
```
 - CSS format:

```
img {  
  height: # px;  
  width: # px;  
}
```
- positioning images (in CSS): float
 - display
 - box model properties
 - padding
 - border
 - margin
- inline positioning images: `` is an inline element by default
 - positions image w/in same line & content surrounds it
 - height of line → = height of image → creates vertical gaps
- block positioning images: change display to block
 - image appears in own line & content goes above & below

metadata

preloads any available metadata (eg. length) but not all info

- audio fallbacks/ multiple sources: use `<source>` nested in `<audio>` `>` src attribute
provide download link if `<audio>` isn't supported

→ eg. `<audio controls>`
`<source src="jazz.ogg" type="audio/ogg">`
`<source src="jazz.mp3" type="audio/mp3">`
`<source src="jazz.wav" type="audio/wav">`
Please `` download `` the audio file

Adding Video

- `<video>` = to add videos
attributes & fallbacks same as `<audio>`
specify dimensions in CSS → render video faster & allocate proper space
 - format: `<video src="earth.ogv"></video>`
- `poster attribute` = to specify the image shown before video is played (ie the thumbnail)
 - format: `<video src="source file" controls poster="image file/url"></video>`
- video fallbacks: same format as `<audio>`
another video format: Youtube/Vimeo embedded video via inline frame
- customize audio/video controls w/ JavaScript

Adding Inline Frames

- `<iframe>` = inline frame
to embed another HTML page w/in current page
 - format: `<iframe src="url"></iframe>`
 - default styles: inset border
width & height
 - change styles w/: html attributes
 - frameborder
 - width & heightcss properties
 - border
 - width & height

Semantically Identifying Figures & Captions

- semantically mark self-contained content/media (often w/ a caption) w/: `<figure>`
`<figcaption>`

- **<figure>** = block-level element
to identify & wrap self-contained content/media
may contain multiple media items
content location shouldn't affect page content or legibility

→ (eg. <figure>

 </figure>

- **<figcaption>** = figure caption
to add a caption/legend to <figure>
can appear anywhere w/in <figure> just once
can replace alt attribute if caption provides a useful description of visual content

→ (eg. <figure>
 </figcaption>
 </figure>)