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Lesson 9: Adding Media
   embed: images
           audio tracks
           videos
           inline frames
Adding Images
  <img>= 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 all attribute (alternative text)
     T format: <imq src="source" alt="text to be displayed">
   most commonly supported image formats: gif
                                               - 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 <imq> tag
                    (in css) width & height properties
                      - most common practice
                      – takes precedence/overrides HTML values
                                                         - CSS format:
     THIML format:
                       img &
                                                                            ima E
                           height = # px;
                                                                               height: # px;
                           Width = # px;
                                                                               Width: # px;
                        3
                                                                            3
  positioning images (in CSS): float
                             display
                             box model properties
                             - padding
                             t border
                             + margin
   inline positioning images: <img> is an inline element by default
                                  positions image wlin same line & content surrounds it
                                  height of line → = height of image → creates vertical gaps
   block positioning images:
                               change display to block
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image appears in own line & content goes above & below

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positioning images flush left/right: use float property
                                        positions image to left/right of containing element
                                        content directly aligns against it → provide margin
                                                       <ima>
  <img> element vs. background-image property:
                                                          -image holds semantic value
                                                          timage content is relevant to page content
                                                       background-image
                                                          -image is part of design/ui
                                                          -not directly relevant to page content
Addina Audio
 <audio> = to add audio files
             by default element isn't displayed on page
    - format: <audio src = "source file" ></audio>
    - file formats: ogg
                     mp3
                     WAV
  audio attributes: autoplay
                     controls
                                     boolean attributes = attributes that don't require a stated value
                      loop
                      preload
  autoplay attribute = audio file will play upon page loading
    t format: <audio src="source file" autoplay></audio>
                                                                                         D: 00/0:00
                                                                                                            4>
  controls attribute = to display audio element on a page & audio controls
                       default audio controls: play/pause
                                              seek
                                              volume
    † format: <audio src = "source file" controls></audio>
  loop attribute = to continually repeat audio
    tormat: <audio src="source file" loop></audio>
  preload attribute = to identify what info about audio file should load before clip is played
                       by default all info is loaded
                       use if audio is non-essential to page → conserve bandwidth & load page faster
        t values:
                   none
                                   no info preloaded
                                   all info preloaded
                   auto
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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="audiologg">
                    <source src= "jazz.mp3" type="audio/mp3">
                   <source src="jazz.wav" type="audio/wav">
                    Please <a href="jazz.mp3" download>download</a> the audio file
Addina Video
 <video> = to add videos
            attributes & fallbacks same as < qudio>
             Specify dimensions in CSS → render video faster & allocate proper space
    T format: < video src = "earth.ogv" ></video>
  poster attribute = to specify the image shown before video is played (ie the thumbnail)
    - format: <video src="sourcefile" controls poster="imagefile/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 & height
                         css properties
                           - border
                           - width & height
Semantically Identifying Figures & Captions
  semantically mark self-contained content/media (often w/a caption) w/: <figure>
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metadata

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

<figcaption>

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<figure) = block level element</pre>
            to identify & wrap self contained content/media
            may contain multiple media items
            content location shouldn't affect page content or legibility
            eg. <figure>
                   <img src = "dog.jpg" alt = "a brown dog wearing a kerchief">
                </figure>
<figcaption>=
                figure caption
                to add a caption/legend to <figure>
                 can appear anywhere wlin (figure) just once
                 can replace alt attribute if caption provides a useful description of visual content
            eg. <figure>
                  <img Src="dog.jpg"</pre>
                   <figcaption = "a brown dog wearing a kerchief".</pre>
               </figure>
```