

Images

Best practices for adding images

Images – its more than the tag

- Many file types are widely supported
 - JPEG (.jpg and .jpeg), GIF, and PNG
 - SVG and BMP are additional options
 - File extensions must be included
- **Every image must be downloaded, so size can be a factor**
- Every image requires an HTTP Request

Image Sizes

- When you link to an image the browser displays the image as big (or small) as the file.
 - This size is rarely optimal
- **“Quick” solutions – change file, use width/height attributes**

Using an Editor

- Editors can be used to *permanently* change the size of the image
 - Only works on local files
- Built-in software for this includes Preview (Mac) and Paint (Windows)

Using Attributes

~ 가이 가이드 경우, 코드에서 content ↔ style을 분리해야 하지만, image는 예외.

- Always strive to keep style out of your HTML files but...
- `` tag includes **width** and **height** attributes

Default Image size

```
<figure>
  <img src = "imgs/Ashtabula.jpg"
      alt = "My house">
  <figcaption>Default image size</figcaption>
</figure>
```

Using Width in Pixels

```
<figure>  
  <img src = "imgs/Ashtabula.jpg"  
        width = "500px" alt = "My house">  
  <figcaption>Set image size</figcaption>  
</figure>
```

height는 browser가 알아서 처리한다. (비율)

Using Width and Height

```
<figure>
  <img src = "imgs/Ashtabula.jpg"
      width = "500px" height = "100px"
      alt = "My house">
  <figcaption>Skewed image size</figcaption>
</figure>
```

Handwritten notes above the code: $\frac{400}{2 \times 20} \times \frac{250}{20}$ with arrows pointing to the width and height attributes.

Using Percentages

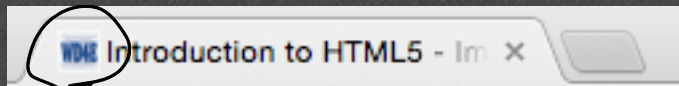
→ Maybe this is the best option!

→ Screen Size에 따라 (각 device에 맞는 device에 Screen에 맞춰서)
크기에 맞춰서 표시

```
<figure>
  <img src = "imgs/Ashtabula.jpg"
      width = "50%" alt = "My house">
  <figcaption>Relative image size</figcaption>
</figure>
```

Favicons

- You can put image/logo/icon next to the title of your page (in the tab)
- Must go in `<head>` section



```
<link rel="icon" type="image/png" href="imgs/wd4e/logo.png" />
```

Alternative Text Attribute

- Provides a textual alternative to non-text content
- Read by screen readers
- Displayed in place of images
- **Provides semantic meaning for search engines**

Creating Good alt text

- **Be accurate**
- **Be succinct**
- **Don't be redundant**
- **Don't include “picture of..”, “graphic of ..”**

Empty alt text

- **It is okay to leave alt text empty (null)**
 - Decorative images used for non-informative purpose
- **Do not skip the alt attribute though!**

Long alt text

- **Some images (especially infographics) may require elaborate alt text**
- **Consider replacing alt text with link to separate page with full explanation**

Review

- **Misuse of file extensions, filename, and file paths are often a problem**
- **For now, style the height/width in the html code.**

Acknowledgements/Contributions

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