Assignment 3 — Add images and Favicons

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Introduction

In this assignment, you'll add a gallery.html page to the existing website and include 10 images of work you have completed in your career...such as screenshots, photos, diagrams, posters, etc., related to projects you have worked on. And, in preparation for next week's work with color and styles, you'll optimize a background photo.

In addition, you'll find/create an icon to identify your website in the browser tab and header. You'll transfer the files to your OSU Engineering Web Server, view the site in the browser, and make corrections, if any.

Note: The material you need to know to complete this assignment is covered in Modules 1, 2, and 3.

Be sure to periodically review Assignment 3 ⇨ (https://edstem.org/) Tips thread in the Ed discussion board (pinned at the top).

Pam Van Londen

Home Gallery Contact

Web Development Concepts

Web Servers Frontend Design Optimized Images Favicons

About Web Servers

Explain what index means as it relates to websites and servers.

Explain can be seen in the browser's Web Dev/Inspector tools. What is different server versus the local computer?

Explain why the favicon.ico file has a status 200, but the main.css and main.js fi

Explain the parts of the URL to your web file. What are the scheme, subdomain

Frontend Design

Explain the concept of frontend design.

Explain the five "E"s of usability.

E...   description
E...   description
E...   description
E...   description
E...   description

The purpose of page layout tags.

Explain how anchors link to external content, internal content, and from page-to

1. external content
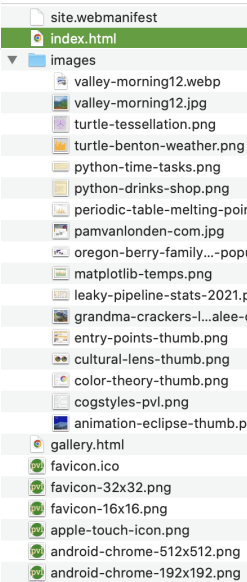2. internal content
3. page-to-page

Optimized Images

What are the 6 major specifications of images for the web?

Which file formats are most appropriate for photos and for line art?

Favicons

How do browsers and devices use favicons?

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Learning Outcomes

- Optimize and add foreground images.
- Optimize a background image.
- Create and add a favicon.

Tools

Online or local software will be needed to optimize 11 or more images. Continue to use the grammar/spelling extension and file transfer software.

Instructions

This Assignment will require use of the Semantic HTML page layout tags, 11 or more optimized images, and new text. Refer to the previous 2 Modules to follow best practices.

Duplicate and update a page, and add images

1. **Copy your existing *a2-username* folder** from Module 2.

2. **Paste the folder** into your existing Module 3 folder of assignments and rename it ***a3-username.***

3. **Open the new *a3-username* assignment folder in VS Code.**
   Fix all writing and coding issues as per your Rubric Feedback from the previous assignment.

4. **Add a folder called <u>images</u>.**

5. **Create 10 or more images of past projects, events, travels, etc.** The images can include:
   - Cropped screenshots (usually in .png format).
   - Photos of physical items (saved in .webp or .jpg format), such as projects/hobbies.
   - Photos of places you have travelled; not just a sunset, but to show you've acquired cultural knowledge.
   - Output from data manipulations (screenshots in .png format).
   - Other project-related line-art (in .png) or photography (in .jpg), such as of hobbies.
   - These images should be legible when they are between 400px to 800px wide.


```
site.webmanifest
index.html
▼ images
    valley-morning12.webp
    valley-morning12.jpg
    turtle-tessellation.png
    turtle-benton-weather.png
    python-time-tasks.png
    python-drinks-shop.png
    periodic-table-melting-poin
    pamvanlonden-com.jpg
    oregon-berry-family...-popu
    matplotlib-temps.png
    leaky-pipeline-stats-2021.p
    grandma-crackers-l...alee-c
    entry-points-thumb.png
    cultural-lens-thumb.png
    color-theory-thumb.png
    cogstyles-pvl.png
    animation-eclipse-thumb.pn
gallery.html
favicon.ico
favicon-32x32.png
favicon-16x16.png
apple-touch-icon.png
android-chrome-512x512.png
android-chrome-192x192.png
```

6. **Crop, resize, rename, and compress the images.** Refer to the Production tab of the **Online Images Exploration ⇨ (https://pamvanlonden.com/webdev/images.html)** to optimize the 10 images.
   - **Crop** out unnecessary parts of the images, such as distracting or black backgrounds.
   - **Increase brightness** if you took photos in a dark location.
   - **Straighten** them with skew options.

- Reduce their **dimensions**.
- **Name** the files descriptively, with lowercase letters. Separate words with hyphens.
- **Compress** them to **less than 50k.**

7. **Locate one more image for the background of the website.**
   - The photo must be of your own creation; no outside photos or line-art allowed.
   - It must also be appropriate for all ages to view and may not include any nudity, weapons, drugs, or alcohol. Pictures of people probably won't be visible once it is covered with content, so consider abstract or landscape imagery.
     - The imagery cannot be a drawing; it must be a photo.
   - The background image can be as large as 1200px wide.
   - **Compress** it to less than **150k.**
   - This file will be implemented in the next Assignment. For now, we are checking for resolution, file sizes, and file naming.

8. **Add the optimized images to the new <u>images</u> folder.**

9. **Create a new page** called <u>gallery.html.</u>
   1. **Add the boilerplate HTML tags** starting with the `<doctype html />` along with page layout tags, and headings. All three pages should have the same structure and `<h1>` text.
   2. **Add a page name** to an `<h2>` in the `<section>`, such as "Gallery".
   3. **Add navigation** so that all three pages link to all all three pages in a `<nav>` block. Use *relative* paths (folder/filenames) only, not *absolute* paths (**http://..** ⤴ **(http://..)**).
   4. **Add an** `<article>` **with the set of 10 images.**
      - To the `<article>` tag, add a class to define it as a gallery.
      - Use the `<figure>` block with descriptive `<figcaption>`s.
      - Follow accessibility best practices by describing each image in the `<img alt="">` value.
   5. **View the new page** in the browser by dragging the file to a new browser tab. Test the navigational anchors.

10. **Add the favicon symbol to the header and browser tab.**
    1. Create a favicon symbol and download the auto-generated files to your hard drive.
    2. Move the favicon files to the root of your *a3-username* folder.
    3. Also add an <img> tag to the <header> of both pages and specify the source as the 192x192-pixel PNG file.

11. **Add two new articles to the Home page** and **add local navigation**. Explain the following topics in paragraphs `<p>` using proper English grammar and punctuation. Adhere to the Syllabus > Style Guide.
    1. Optimizing images:
       - What are the 6 major specifications of images for the web? And why?
       - Which file formats are most appropriate for photos and for line art? And why?
    2. Favicons:
       - How do browsers and devices use favicons?
    3. Add a unique **ID** to each of the articles on Home. For example: `<article id="servers">.`
    4. Just under the ending `</h2>`, create a **new** `<nav class="local">` block on <u>index.html</u> to hyperlink down to **each** article, based on its ID. The **class** name will allow you to **differentiate** it from the *global* page-to-page navigation, so it can be styled differently (in the next Module).

12. Nothing else is needed at this time. We will style the page layout and figures in a future Assignment.

13. **View the new page** in the browser.
    1. How do the figures look?
    2. Are all the images loading?
    3. Did the favicon load in the browser tab? It might not, until it is transferred to the web server.
    4. Navigate from page-to-page to ensure they are linked.

Transfer the files

Check for accurate folder names, file names, paths, optimized images, and grammar and spelling issues, so your work is professional. Then:

1. Transfer the file to the web server.
2. Are any images missing? If so, correct spelling and ensure they are actually on the server in the correct location.
3. Do the images load quickly?

4. Does the favicon show up in the browser tab of Chrome, FireFox, and Safari?
5. Use the **LanguageTool** 🔗 **(https://languagetool.org/)** browser plugin to check for grammar, spelling, and punctuation errors on both pages.
6. Make corrections, if any, and transfer the file again.
7. Copy the URL of your file from the browser address bar.

What to Turn In?

Paste the complete URL of your file as it resides on your ENGR web server into the Assignment Submission box. Example:

`https://web.engr.oregonstate.edu/~ONIDusername/a3-username`

Rubric and scoring criteria

Review the Rubric below to see how we'll score your assignment:

Points	35
Submitting	a website url or a file upload
File Types	zip

Due	For	Available from	Until
Jul 16	Everyone	-	Jul 17 at 11:59pm

A3-U23-Images

Criteria	Ratings			Pts
URL leads to the Home page.	**0.5 pts** **Met** URL leads to the home index.html page.	**0.25 pts** **Partially met** URL leads to a directory on the server, but not the home page.	**0 pts** **Not met** URL path is incorrect.	0.5 pts
Home Page	**8 to >0.0 pts** **Met** Home page launches with the correct header elements, global navigation, main, section, page heading, and local navigation to articles about web servers, frontend design, optimized images, and favicons. HTML follows best practices.		**0 pts** **Not met**	8 pts
Gallery Page	**10 to >0.0 pts** **Met** Gallery page launches with the correct header elements, global navigation, main, section, page heading, and article with 10 figures/images/figcaptions. HTML follows best practices.		**0 pts** **Not met**	10 pts
Contact Page	**2 to >0.0 pts** **Met** Contact page launches with the correct header elements, global navigation, and semantic HTML tags: main, section, page title, and article. HTML follows best practices.		**0 pts** **Not met**	2 pts
Image files	**11 to >0.0 pts** **Met** Eleven image files have the correct file format, descriptive filenames, and optimized file sizes.		**0 pts** **Not met**	11 pts
Favicon	**3 to >0.0 pts** **Met** A legible favicon launches in the browser tab of each page.		**0 pts** **Not met**	3 pts
Grammar	**0.5 pts** **Met** LanguageTool did not detect any grammar or spelling errors.	**0.25 pts** **Partially met** LanguageTool detected a grammar or spelling error.	**0 pts** **Not met** LanguageTool detected more than one grammar or spelling error.	0.5 pts
			Total Points: 35	