Step 1: Set Up the Project

1. **Create the Project Folder**:

   o Create a folder on your computer called astronomy.

2. **Create HTML and CSS Files**:

   o Inside the astronomy folder, create two files:

      ▪ index.html

      ▪ styles.css

3. **Save the Images**:

   o Save them in an images/ subfolder within the astronomy folder.

Step 2: Write the HTML Structure (index.html)

1. **Document Setup**:

   o Start by creating the basic HTML5 structure with a DOCTYPE declaration, html, head, and body tags.

2. **Header Section**:

   o Inside the header tag, add an <h1> for the main title ("Exploring the Universe") and a <p> for a brief introductory text ("Welcome to the world of Astronomy").

3. **Navigation Section**:

   o Create a nav tag with an unordered list <ul>.

   o Add three list items (<li>) inside the unordered list:

      ▪ One for index.html

      ▪ One for Astronomy Photo of the Day
        https://apod.nasa.gov/apod/astropix.html

4. **Main Content Section**:

   o Create three section tags, each representing a different astronomy topic:

      ▪ A "Planets" section with a heading <h2>, an image, and a description.

      ▪ A "Stars" section with a heading <h2>, an image, and a description.

      ▪ A "Galaxies" section with a heading <h2>, an image, and a description.

5. **Footer Section**:

   o Add a footer tag with a copyright notice and the text
     "© 2025 Astronomy Exploration" in a <p> tag

Step 3: Style the Webpage with CSS (styles.css)

1. **Reset Default Styles**:

   o Use the universal selector (*) to remove margin, padding, and apply box-sizing: border-box to all elements.

2. **Body Styling**:

   o Set the font family to Arial or sans-serif and ensure good line-height for readability.

   o Set the background-linear gradient to background: linear-gradient(0deg, #AA11EA, #374BCE);

   o Set the color to color: #cbd8e3db;.

   o Set the line-height to 1.6;.

   o Set the background color to a light blue color (#f0f8ff) to give a soft atmosphere.

3. **Header Styling**:

   o Set the background color to a dark shade of blue (#2c3e50).

   o Add padding: 4rem 2rem; to create space inside the header and center the text.

   o Add the margin-bottom: 3rem;.
   o Set the text-align to center;.

   o Set the text color to white.

4. **Header H1 styling**:

   o Set the font size for the H1 to a font-size:4rem.

5. **Navigation Styling**:

   o Style the nav element with the following:

   o background-color: #34495e;

   o padding: 1.5rem 0;

6. **Navigation ul Styling**:

   o Style the nav element with the following:

   o list-style-type: none;

   o display: flex;

   o justify-content: center

   o gap: 3rem;

7. **Navigation a Styling:**

   o Style the nav a with the following;

color: white;

text-decoration: none;

font-size: 1.2rem;

8. **Nav a:hover Styling:**

    o   Set the nav a:hover with the following:

    color: #d9e8d8;

    text-decoration: underline;

9. **Main Content Styling:**

    o   Set the main section with the following:
        max-width: 90%;
        margin: 0 auto;
        padding: 2rem;

10. **Section Content Styling:**

    o   Set the following:

    background-color: #7f818a;

    margin-bottom: 3rem;
    padding: 2rem;
    border: 2px solid #0b0a3f;
    border-radius: 8px;

11. **H2 Styling:**

    o   **Add the following:**

    color: #180e51;
    margin-bottom: 1.5rem;
    font-size: 2.5re

12. **p Styling:**

    o   **Add the following:**

    font-size: 1.2rem;
    margin-bottom: 1.5rem;
    color:#180e51;

13. **Image Styling:**

    o   **Add the following;**

    width: 30%;

    height: auto;

border-radius: 8px;

margin-bottom: 1.5rem;

14. Footer Styling:

- o Style the footer with a matching background color to the header, center the text, and add padding to create space.

  Add the following:

- o background-color: #2c3e50;

- o text-align: center;

- o padding: 1.5rem 0;

- o margin-top: 3rem;

Step 4: Test and Review

1. **Preview the Webpage**:

   - o Open index.html in a browser to see the webpage.

   - o Ensure that the images, text, and layout look good.

2. **Fix Any Issues**:

   - o If any images appear distorted or the text overflows, adjust the padding, margin, or image width in your CSS.

Step 6: Submit the Project

1. To turn in your work, upload your folder labeled "Ch6" that contains all of the files for your homework.
   - o This will include the one html pages, external CSS file, and three jpg files. You will upload the folder to your GitHub account. The easiest way to do this is to drag and drop the folder into your GitHub repository.

   The link will be something like this; **http://username.github.io/web110/ch6/index.html**

2. Submit the Project:

   - o Submit the URL of your webpage to the Canvas dropbox.