Task 4: Implementing CSS Pagination, Gradients, and Border Images

Objective:

Apply advanced CSS techniques to create a pagination interface, incorporate gradients for visually appealing backgrounds, and enhance element borders with images. This task challenges you to elevate the design and user experience of a profile page using sophisticated CSS properties.

Pre-requisites:

- Basic understanding of HTML elements and CSS properties
- Familiarity with a code editor like Visual Studio Code

Concepts Covered:

- CSS Pagination
- Gradients
- Border Images

Concepts:

1. **CSS Pagination:**

   Pagination is used to divide content into discrete pages, enhancing navigation and usability. Use CSS to style the pagination links for better visibility and user interaction.

   ```css
   .pagination {
       display: flex;
       list-style: none;
   }
   .pagination li {
       margin: 0 5px;
   }
   .pagination a {
       padding: 8px 16px;
       text-decoration: none;
       background-color: #333;
       color: #fff;
       border-radius: 4px;
   }
   .pagination a:hover {
       background-color: #ff5733;
   }
   ```

2. **Creating Gradients:**

   Gradients are used to create smooth transitions between two or more colors. Use linear and radial gradients to enhance the visual appeal of elements.

```css
.gradient-bg {
    background: linear-gradient(45deg, #ff5733, #333);
    padding: 20px;
    color: #fff;
    border-radius: 8px;
}
.radial-gradient-bg {
    background: radial-gradient(circle, #ff5733, #333);
    padding: 20px;
    color: #fff;
    border-radius: 8px;
}
```

3. **Using Border Images:**

The `border-image` property allows you to use an image as the border of an element. Control how the image is displayed using various border-image properties.

```css
.border-image {
    border: 10px solid transparent;
    border-image-source: url('border-image.png');
    border-image-slice: 30;
    border-image-width: 10px;
    border-image-repeat: round;
}
```

Setup:

1. **Install Visual Studio Code (VS Code):**

Download and install VS Code from [Visual Studio Code](https://).

2. **Web Browsers:**

Use Google Chrome or Mozilla Firefox for viewing your webpage and utilizing their developer tools for debugging.

Tasks:

1. **CSS Pagination (20 minutes):**
   - Implement a basic pagination system for a list or a set of items using CSS.
   - Style the pagination links (numbers, previous, next) with CSS for better visibility and user interaction.

2. **Creating Gradients (20 minutes):**
   - Apply linear and radial gradients to backgrounds of elements.
   - Experiment with different colors and directions to understand how gradients can enhance the visual appeal of your webpage.

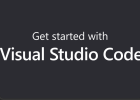3. **Using Border Images (20 minutes):**
   - Learn to apply images to the borders of elements using the `border-image` property in CSS.

○ Experiment with `border-image-source`, `border-image-slice`, `border-image-width`, and `border-image-repeat` properties to control how the image is displayed on the border.

Instructions:

1. Write the required code in `index.html` and `styles.css`.
2. Open the `index.html` file in your web browser to ensure the code displays correctly.
3. Use the browser's developer tools to debug and inspect the elements.

Resources:

- 🧙‍♀️ **Page not found | MDN Web Docs**
  The MDN Web Docs site provides information about Open Web technologies including HTML, C...
  ℳ https://developer.mozilla.org/en-US/docs/Web/CSS/Pagination

- **<gradient> - CSS: Cascading Style Sheets | MDN**
  The <gradient> CSS data type is a special type of <image> that consists of a progressive t...
  ℳ https://developer.mozilla.org/en-US/docs/Web/CSS/gradient

- **border-image - CSS: Cascading Style Sheets | MDN**
  The border-image CSS property draws an image around a given element. It replaces the el...
  ℳ https://developer.mozilla.org/en-US/docs/Web/CSS/border-image

- **Documentation for Visual Studio Code**
  Find out how to set-up and get the most from Visual Studio Code. Optimized for building and d...
  Get started with **Visual Studio Code**
  ✖️ https://code.visualstudio.com/docs

Videos:

-

  Bro Code   8:59min   19,778 Views   515 Likes

-

  Kevin Powell   6:02min   165,394 Views   4,687 Likes

-

GitHub Instructions:

1. **Open in Visual Studio Code:**

   After clicking on the "Open in Visual Studio Code" button from the GitHub Classroom confirmation page, VSCode will open the repository directly. If prompted, select "Open" or "Allow" to open the repository in VSCode.

2. **Open the Terminal in VSCode:**

   In VSCode, open a terminal by selecting Terminal > New Terminal from the top menu.

3. **Complete the Task:**

   In VSCode, write your solution in the `index.html` and `styles.css` files.

4. **Run and Test Your Code:**

   Open your `index.html` file in a web browser to ensure it works correctly. Use the following command:

   ```
   open index.html
   ```

5. **Commit Your Changes:**

   In the VSCode terminal, add your changes to git:

   ```
   git add index.html styles.css
   ```

   Commit your changes with a meaningful message:

```
git commit -m "Completed task 8"
```

6. **Push Your Changes to Your Repository:**

   Push your changes to your forked repository:

```
git push origin main
```

7. **Create a Pull Request:**

   Go to your repository on GitHub.

   Click on the "Pull Requests" tab.

   Click the "New Pull Request" button.

   Ensure the base repository is the original template repository and the base branch is `main`.

   Ensure the head repository is your forked repository and the compare branch is `main`.

   Click "Create Pull Request".

   Add a title and description for your pull request and submit it.

Summary of Commands:

```
# Open in Visual Studio Code

# Open terminal in VSCode

# Complete the task by editing index.html and styles.css

# Navigate to the directory containing index.html
cd path/to/your/index.html

# Run your code
open index.html

# Add, commit, and push your changes
git add index.html styles.css
git commit -m "Completed task 4"
git push origin main

# Create a pull request on GitHub
```