

Task 1: Designing a Thematic Profile Page

Objective:

Develop a profile page using HTML and CSS to showcase your ability to apply various CSS properties effectively. This project will focus on colors, backgrounds, borders, fonts, cursor styles, z-index, and different units of measurement to enhance the webpage's design and user interaction.

Pre-requisites:

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

Concepts Covered:

- CSS Colors and Backgrounds
- CSS Borders and Fonts
- CSS Cursor Styles
- Understanding z-index
- Units in CSS

Concepts:

1. CSS Colors and Backgrounds:

Apply different color properties to elements using color names, RGB, and hexadecimal values. Experiment with background color and background image properties.

```
body {  
    background-color: #f0f0f0;  
    color: #333;  
}  
.header {  
    background-image: url('background.jpg');  
    background-size: cover;  
    background-repeat: no-repeat;  
}
```

2. CSS Borders and Fonts:

Customize borders of elements using border styles, widths, and colors. Change the font type, size, and style of textual content.

```
.profile-pic {  
    border: 2px solid #ff5733;  
    border-radius: 50%;  
}  
h1 {  
    font-family: 'Arial', sans-serif;  
    font-size: 2em;  
}
```

3. CSS Cursor Styles:

Modify the cursor appearance on hovering over elements using various cursor properties like pointer, default, help, etc.

```
a {  
    cursor: pointer;  
}  
.help-text {  
    cursor: help;  
}
```

4. Understanding z-index:

Use z-index to control the stacking order of positioned elements (like position: absolute; or position: relative;).

```
.hero {  
    position: relative;  
    z-index: 1;  
}  
.overlay {  
    position: absolute;  
    z-index: 2;  
}
```

5. Units in CSS:

Experiment with different units for specifying size, such as pixels (px), ems, rems, percentages (%), and viewport units (vw, vh).

```
.container {  
    width: 80%;  
    max-width: 1200px;  
    margin: 0 auto;  
}  
.text {  
    font-size: 1.5rem;  
}
```

Setup:

1. Install Visual Studio Code (VS Code):

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

2. Web Browsers:

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

Tasks:

1. **CSS Colors and Backgrounds :**

- Apply different color properties to elements using color names, RGB, and hexadecimal values.
- Experiment with background color and background image properties.

2. **CSS Borders and Fonts :**

- Customize borders of elements using border styles, widths, and colors.
- Change the font type, size, and style of textual content.

3. **CSS Cursor Styles :**

- Modify the cursor appearance on hovering over elements using various cursor properties like pointer, default, help, etc.

4. **Understanding z-index :**

- Use z-index to control the stacking order of positioned elements (like position: absolute; or position: relative;).





5. **Units in CSS :**

- Experiment with different units for specifying size, such as pixels (px), ems, rems, percentages (%), and viewport units (vw, vh).

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:

-  **CSS: Cascading Style Sheets | MDN**
Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation o...
 <https://developer.mozilla.org/en-US/docs/Web/CSS>
-  **Documentation for Visual Studio Code**
Find out how to set-up and get the most from Visual Studio Code. Optimized for building and d...
 <https://code.visualstudio.com/docs>

Videos:

CSS Crash Course

Absolute Beginners

1. Open in Visual Studio Code:

2. Open the Terminal in VSCode:

3. Complete the Task:

4. Run and Test Your Code:

```
open index.html
```

In the VSCode terminal, add your changes to git:

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

created with craft

```
git commit -m "Completed task 1"
```

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 1"
git push origin main

# Create a pull request on GitHub
```