

Don Bosco Institute of Technology

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Internet Programming

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Experiment No.: 3

Title:

Design a web pages using CSS3 styles

Problem Definition:

Design web pages using CSS3 styles focusing on Color, Background, Fonts, Tables, and Lists.

Pre-requisites:

1. Understanding of basic HTML5 structure and elements
2. Basic knowledge of CSS syntax and selectors
3. A text editor or IDE and a modern web browser for testing
4. Familiarity with linking external stylesheets and using inline/internal styles

Theory:

CSS3 (Cascading Style Sheets Level 3) provides powerful styling capabilities for web pages, enabling separation of content from presentation. CSS3 introduces modules that enhance design flexibility and maintainability.

Key Concepts covered in this experiment:

- Color: Using color names, HEX, RGB, RGBA, HSL, and HSLA to set text and element colors.
- Background: Applying background-color, background-image, background-repeat, background-position, background-size, and layered backgrounds.
- Fonts & Text: Using @font-face, font-family, font-size, font-weight, line-height, text-transform, letter-spacing, and Google Fonts integration.
- Tables: Styling <table>, <th>, <td> with borders, border-collapse, zebra striping (nth-child), padding, and alignment.

- Lists: Customizing list-style-type, list-style-image, list-style-position, and creating horizontal/inline navigation lists.

Procedure:

1. Create a basic HTML5 page structure (index.html).
2. Link an external CSS file (style.css) using the <link> tag in the <head> section.
3. Define base styles for the body including fonts and colors.
4. Add sections to demonstrate:
 - a) Color: Apply different color formats (HEX, RGB, HSL) to headings and paragraphs.
 - b) Background: Set solid colors, images, and gradients; adjust size and positioning.
 - c) Fonts: Use web-safe fonts and an imported web font; adjust weight, size, and line-height.
 - d) Tables: Create a sample table and style borders, header row, and zebra stripes using :nth-child.
 - e) Lists: Create ordered/unordered lists and style bullets, spacing, and display inline for a menu.
5. Test the page in a web browser and verify styles render correctly across sections.
6. Validate CSS using browser DevTools; refine selectors and properties as needed.
7. Save final files and capture screenshots of styled sections.

Program:

```
<!DOCTYPE html><html lang="en"><head><meta charset="UTF-8"><meta
name="viewport" content="width=device-width,initial-
scale=1.0"><title>Forms</title><style>body{font-family:'Segoe
UI',Tahoma,Geneva,Verdana,sans-serif;background:linear-gradient(to
right,#dbeafe,#f0f9ff);margin:0;padding:0}h1{text-align:center;color:#1e3a8a;margin-
top:40px;font-size:2.5em}form{max-width:600px;margin:30px
auto;padding:30px;background-color:#fff;border-radius:15px;box-shadow:0 8px 16px
rgba(0,0,0,.1);display:flex;flex-direction:column}label{font-weight:600;margin-
bottom:6px;color:#1f2937}input[type="text"],input[type="password"],input[type="date"],s
elect{padding:10px;border-radius:6px;border:1px solid #ccc;margin-bottom:20px;font-
size:1em;transition:border .3s ease}input:focus,select:focus{border-
color:#2563eb;outline:0}.radio-group{margin-bottom:20px}.radio-group label{font-
weight:400;margin-right:15px;cursor:pointer}.radio-group input{margin-
right:5px}button{padding:12px;background-color:#2563eb;color:#fff;border:0;border-
radius:8px;font-size:1em;cursor:pointer;transition:background-color .3s
ease}button:hover{background-color:#1e40af}.back-link{text-align:center;margin-
top:25px}.back-link a{text-decoration:none}.back-link button{background-
color:#6b7280}.back-link button:hover{background-
color:#4b5563}</style></head><body><h1>Student Details Form</h1><form
action="submit"><label for="name">Name:</label><input type="text" id="name"
name="name" required><label>Department:</label><div class="radio-group"><input
type="radio" id="comps" name="fav_language" value="COMPS"><label
for="comps">COMPS</label><input type="radio" id="it" name="fav_language"
```

```

value="IT"><label for="it">IT</label><input type="radio" id="extc" name="fav_language"
value="EXTC"><label for="extc">EXTC</label><input type="radio" id="mech"
name="fav_language" value="MECH"><label for="mech">MECH</label></div><label
for="password">Roll No:</label><input type="text" id="password" name="password"
required><label for="dob">Date of Birth:</label><input type="date" id="dob"
name="dob"><label for="gender">Gender</label><select name="gender_opt"
id="gender"><option value="Male">Male</option><option
value="Female">Female</option><option
value="Other">Other</option></select><button
type="submit">Submit</button></form><div class="back-link"><a
href="/profile.html"><button>Go Back</button></a></div><script src="/te-
validation.js"></script></body></html>

```

Output:

Student Details Form

Name:

Department:
☐ COMPS ☐ IT ☐ EXTC ☐ MECH

Roll No:

Date of Birth:

Gender

Submit

Go Back

Results:

Successfully created web pages styled using CSS3 features for color, background, fonts, tables, and lists.

References:

1. <https://developer.mozilla.org/en-US/docs/Web/CSS>
2. <https://www.w3schools.com/css/>