

Style your Webpage

Web Development

Time: 60 mins

Introduction

In this class, the student/s will style the web page using inline styling and external style sheets. Students will learn about the different inline style commands, cascading style sheets and div tags and use them to style the web page to make it look more attractive

HTML Tags & CSS Properties Introduced

- | | |
|--|---|
| • style= | Sets the inline styling for a particular tag. |
| • text-align: | Aligns the text. |
| • font-family: | Assigns a font family to the text. |
| • width: | Set the width of the element |
| • color: | Sets the color of the text. |
| • <div></div> | Creates the sections on the webpage. |
| • <link rel="stylesheet" href="style.css"> | Links the CSS to the index.html file. |
| • background-image: url(""); | Adds a background image mentioned within the url. |
| • display: | Displays content in a single line. |

Vocabulary

- **Inline Styling** is used to style the tags in HTML. It is called inline styling since we added them inside the tag. Different attributes are used within the inline styling like width, color, etc to style the content of the tag.
- **External Styling** is a styling technique to style the HTML tags using an external stylesheet. The external file is known as a Cascading Style Sheet(CSS). It negates the repetition of using inline styling for the same tag in an html file.

Learning Objectives

Student/s should be able to:

- **Explain** the inline and external styling and the different attributes associated with each.
- **Demonstrate** how to add tags to the CSS files and give attributes to the tags using inline styling.
- **Explain** the different attributes associated with styling such as font-family, text-align, color, etc.
- **Build** a simple web page.

Activities

1. Class Narrative: (2 mins)

- Brief the student/s that their school is organizing an inter school tech fest and they have to create a web page. The web page must look pleasing to the eyes to garner maximum views.

2. Concept Introduction Activity: (5 mins)

- Let the student explore the final outcome of the class.
- Brief the student/s that they will have to modernize the web page.

3. Activity 1: Add the Font Styling : (10 mins)

Teacher Activity: (5 mins)

- Explain inline styling within the <body> tag along with the different attributes including text-align and font-family.
- Explain the difference between absolute and relative values. Absolute values will ensure that the length or width remains the same irrespective of the screen size whereas relative values will match the length or width of the screen.
- Demonstrate the different variations in the styling for text-align and font-family

Student Activity: (5 mins)

- Guide the student/s to style the , <h2> and <body> tags with inline styling.
- Ask students to try changing and experiment with the different text alignments and font-families.

Tag to be styled	Inline Styling Property	Value
img	width	Any value from 0 to 100 with unit being %. Or any numeric value with the unit being pixels.
h2	color	color name Orange
body	text-align	left, right and center
	font-family	Serif fonts, Sans-serif, Monospace fonts, Cursive fonts and Fantasy fonts.

4. Activity 2: Create the Sections: (5 mins)

Teacher Activity: (2.5 mins)

- Explain the need to section web pages using the <div> tags.
- Demonstrate by clicking on different sections.
- Demonstrate how the Automated Car Demonstration, VR Gaming Experience and Assess AI Robot activities can be arranged in a row by adding the width and inline-block using inline styling.

Student Activity: (2.5 mins)

- Guide the student/s to create different sections for the remaining activities using the <div> tag and arrange them in a row using inline styling.

5. Activity 3: Highlight the Activity Titles : (15 mins)**Teacher Activity: (5 mins)**

- Explain the use of external style sheet to style multiple tags.
- Explain to the student that CSS is called external styling.
- Style the following attributes for the body tag: margin, text-align, font-family, background-image and explain to students about these attributes.
- Demonstrate linking the external style sheet and complete the body tag in the stylesheet.

Note: In case the student asks, how to create a css file point him to the earlier classes where adding files was shown. The only difference is that the extension is .css now versus .py then.

Student Activity: (10 mins)

- Guide the student/s to add styling using external style sheet to CSS file.
- Guide the student/s to remove all of the inline styling present in the html file.
- Style the following attributes of the image, heading and div tags: display, width, background, color, padding, border-radius
- Ask the student to try changing values for the above attributes. Guide students with different values for the attributes.

Tag to be styled	CSS Styling Property	Value
body	text-align	left, right and center center
	font-family	Serif fonts, Sans-serif, Monospace fonts, Cursive fonts and Fantasy fonts. cursive
	background-image: url()	Add the url of the folder from where the images are stored inside the parenthesis.
	margin	Any numeric value. (unit in pixels) 0px
div	display	inline-block

	width	Any value from 0 to 100 with unit being %. Or any numeric value with the unit being pixels. 30%
img	width	Any value from 0 to 100 with unit being %. Or any numeric value with the unit being pixels. 80%
h4	display	inline-block
	width	Any value from 0 to 100 with unit being %. Or any numeric value with the unit being pixels. 70%
	background	Any color skyBlue
	color	Any color white
	padding	Any numeric value. (unit in pixels) 5px
	border-radius	This adds a rounded cornered border around all the h4 tags. You can add any numeric value to it. The unit has to be in pixels. 20px.

6. Introduce the Post class project: (2 min)

- Style the web page created for the Summer Camp webpage using external stylesheet.

7. Test and Summarize the class learnings: (5 mins)

- Check for understanding through quizzes and summarize learning after respective activities.
- Summarize the overall class learning towards the end of the class.

8. Additional activities:

- Adding the email and address icon: Add heading for address and email address and icon using heading and img tag to the Techfest webpage.
- Modify div and body tags: Add styling to the div and body tags to the Techfest web page.

9. State the Next Class Objective: (1 min)

- We will create the homepage for the school's web page.

U.S. Standards:

Links Table		
Activity	Activity Name	Link
Class Presentation	Style Your Webpage	https://s3-whjr-curriculum-uploads.whjr.online/49f88b29-59b0-4b68-a571-160bac5f3525.html
Explore Activity	Style Your Webpage: Explore Activity	https://tynker.com/code/project/6364fda0f929c16d3b5275f2
Teacher Activity 1	Add the Font Styling	https://tynker.com/code/project/6364fa5a59016c3f91118c92
Teacher Activity 1 Solution	Add the Font Styling	https://tynker.com/code/project/6364f6a6359b20102425a392
Student Activity 1	Add the Font Styling	https://tynker.com/code/project/6364fae814857c72554c8d12
Teacher Reference: Student Activity 1 Solution	Add the Font Styling	https://tynker.com/code/project/6364fab86b5c5e1a315ff8d3
Teacher Activity 2	Create the Sections	https://tynker.com/code/project/6364fc76076dc4517b294db2
Teacher Activity 2 Solution	Create the Sections	https://tynker.com/code/project/6364fb1f462c9e5e5a520f72
Student Activity 2	Create the Sections	https://tynker.com/code/project/6364fd175993c547c47fb0b2
Teacher Reference: Student Activity 2 Solution	Create the Sections	https://tynker.com/code/project/6364fcb5cc22100de7612912
Teacher Activity 3	Highlight the Activity Titles	https://tynker.com/code/project/637b788deda77023a461f262
Teacher Activity 3 Solution	Highlight the Activity Titles	https://tynker.com/code/project/637b74e40cb01550541dd5a6
Student Activity 3	Highlight the Activity Titles	https://tynker.com/code/project/6364fe9263458d11cf56bb92
Teacher Reference: Student Activity 3 Solution	Highlight the Activity Titles	https://tynker.com/code/project/6364fda0f929c16d3b5275f2
Student's Additional Activity 1	Adding the email icon	https://tynker.com/code/project/63650d2f953a7f1eed27dcb2
Teacher Reference: Student's Additional Activity 1 Solution	Adding the email icon	https://tynker.com/code/project/636504f9d15eb33171246536
Student's Additional Activity 2	Modify div and body tags	https://tynker.com/code/project/63650eac0ba80e0c40347e82
Teacher Reference: Student's	Modify div and body tags	https://tynker.com/code/project/63650d

Additional Activity 2 Solution		7bdabe4c111a5232f2
Post Class Project	Style the Camp Web Page	https://tynker.com/code/project/636bfa06b4f22238fb4fa152
Teacher Reference: Post Class Project Solution	Style the Camp Web Page	https://tynker.com/code/project/636bf6fd69d20e2cf91fe4fa