

Lesson 11: Styling Elements with CSS

Web Lab

Overview

This lesson continues the introduction to CSS style properties, this time focusing more on non-text elements. Students begin this lesson by looking at a website about Desserts of the World. They investigate and modify the new CSS styles on this website, adding their own styles to the page. After working on the Desserts page, students apply their knowledge of new CSS properties to do more styling of their personal websites.

Purpose

This lesson builds on what students previously learned about CSS properties, this time looking at properties that can be used all elements. These new properties impact the visual look of the web page beyond its text and give students more precise control over the layout of their pages. As students expand their knowledge of style properties, many may have questions about how they can do even more with CSS. Curious students can explore more properties at **W3 Schools** .

Agenda

Warm Up (5 minutes)

Discuss: What Styles Do You Want?

Activity (40 minutes)

Web Lab: Styling Elements with CSS

Wrap Up (5 minutes)

View on Code Studio

Objectives

Students will be able to:

- Use CSS properties to change the size, position, and borders of elements.
- Create a CSS rule-set for the body element that impacts all elements on the page.

Introduced Code

- `width: value`
- `margin: value`
- `height: value`
- `border-width: value`
- `border-style: value`
- `border-color: value`
- `background-color: value`
- `float: value`

Teaching Guide

Warm Up (5 minutes)

Discuss: What Styles Do You Want?

Prompt: Yesterday we styled text elements. What other ways do you wish you could style your page?

Discuss: Have students share styles they would like to be able to add their page.

Remarks

Today we are going to learn more properties we can use to style our web pages. Hopefully some of them allow you to add some of the styles we listed in this discussion.

Discussion Goal

Goal: Students will likely bring up:

- Adding background colors to things
- Being able to move things around on the page (center, left, right)
- Being able to add borders to things
- Being able to control the size of objects

Activity (40 minutes)

Web Lab: Styling Elements with CSS

Transition: Send students to Code Studio.

Teaching Tip

Pair Programming: Consider using pair programming for some or all of this lesson, in particular as students are learning new CSS properties.

Code Studio levels

Lesson Overview

Student Overview

Exploring more CSS

2

3

(click tabs to see student view)

The Body Element

Student Overview

Layout with CSS

5

6

7

8

9

10

(click tabs to see student view)

Layout Properties

Student Overview

Styling your Website

12

(click tabs to see student view)

Wrap Up (5 minutes)

Journal: Have students add the new properties they learned to the CSS Properties page in their journal or the class poster.

Prompt: Have students reflect on their development of the **five practices of CS Discoveries** (Problem Solving, Persistence, Creativity, Collaboration, Communication). Choose one of the following prompts as you deem appropriate.

- Choose one of the five practices in which you believe you demonstrated growth in this lesson. Write something you did that exemplified this practice.

- Choose one practice you think you can continue to grow in. What's one thing you'd like to do better?
- Choose one practice you thought was especially important for the activity we completed today. What made it so important?

Standards Alignment

View full course alignment

CSTA K-12 Computer Science Standards (2017)

- ▶ **AP** - Algorithms & Programming



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