Understanding CSS

EXSM 3928: Module 4

Learning Outcomes

What is the purpose of this module?

- Practice using CSS to add style to HTML
- List common CSS properties and their use
- Describe the CSS box model, and common units
- Describe CSS display and positioning properties
- Describe the purpose of CSS flexbox and CSS grid
- Examine existing CSS and edit according to some specification
- Deconstruct a design and develop the corresponding CSS required

Module Resources

References

Guides

MDN Plus

♠ Theme



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Guides > Getting started with the web > CSS basics

English (US)

Related Topics

Complete beginners start here!

▼ Getting started with the web

Getting started with the web overview

Installing basic software

What will your website look like?

Dealing with files

HTML basics

CSS basics

JavaScript basics

Publishing your website

How the web works

HTML — Structuring the web

- ▶ Introduction to HTML
- ► Multimedia and embedding
- ► HTML tables

CSS basics

<u>Previous</u>

Overview: Getting started with the web

<u>Next</u>

CSS (Cascading Style Sheets) is the code that styles web content. *CSS basics* walks through what you need to get started. We'll answer questions like: How do I make text red? How do I make content display at a certain location in the (webpage) layout? How do I decorate my webpage with background images and colors?

What is CSS?

Like HTML, CSS is not a programming language. It's not a markup language either. **CSS is a style sheet language.** CSS is what you use to selectively style HTML elements. For example, this CSS selects paragraph text, setting the color to red:

```
p {
  color: red;
}
```

Let's try it out! Using a text editor, paste the three lines of CSS (above) into a new file. Save the file as style.css in a directory named styles.

In this article

What is CSS?

Fonts and text

CSS: all about boxes

Conclusion

In this module

Guides > CSS > CSS building blocks > The box model

English (US)

Related Topics

Complete beginners start here!

► Getting started with the web

HTML — Structuring the web

- ► Introduction to HTML
- ► Multimedia and embedding
- ► HTML tables

CSS — Styling the web

- ► CSS first steps
- ▼ CSS building blocks

CSS building blocks overview

Cascade and inheritance

CSS selectors

The hov mode

Backgrounds and borders

The box model

<u>Previous</u>

Overview: Building blocks

<u>Next</u>

Everything in CSS has a box around it, and understanding these boxes is key to being able to create more complex layouts with CSS, or to align items with other items. In this lesson, we will take a look at the CSS *Box Model*. You'll get an understanding of how it works and the terminology that relates to it.

Prerequisites:	Basic computer literacy, <u>basic software installed</u> , basic knowledge of <u>working with</u> <u>files</u> , HTML basics (study <u>Introduction to HTML</u>), and an idea of how CSS works (study <u>CSS first steps</u> .)
Objective:	To learn about the CSS Box Model, what makes up the box model and how to switch to the alternate model.

Block and inline boxes

In CSS we broadly have two types of boxes — **block boxes** and **inline boxes**. The type refers to how the box behaves in terms of page flow and in relation to other boxes on the page. Boxes have an **inner display type** and an **outer display type**.

In general, you can set various values for the display type using the display property, which can have

In this article

Block and inline boxes

Outer display type

Inner display type

Examples of different display types

What is the CSS box model?

Playing with box models

Margins, padding, and borders

The box model and inline boxes

Using display: inline-block

Test your skills!

Summary

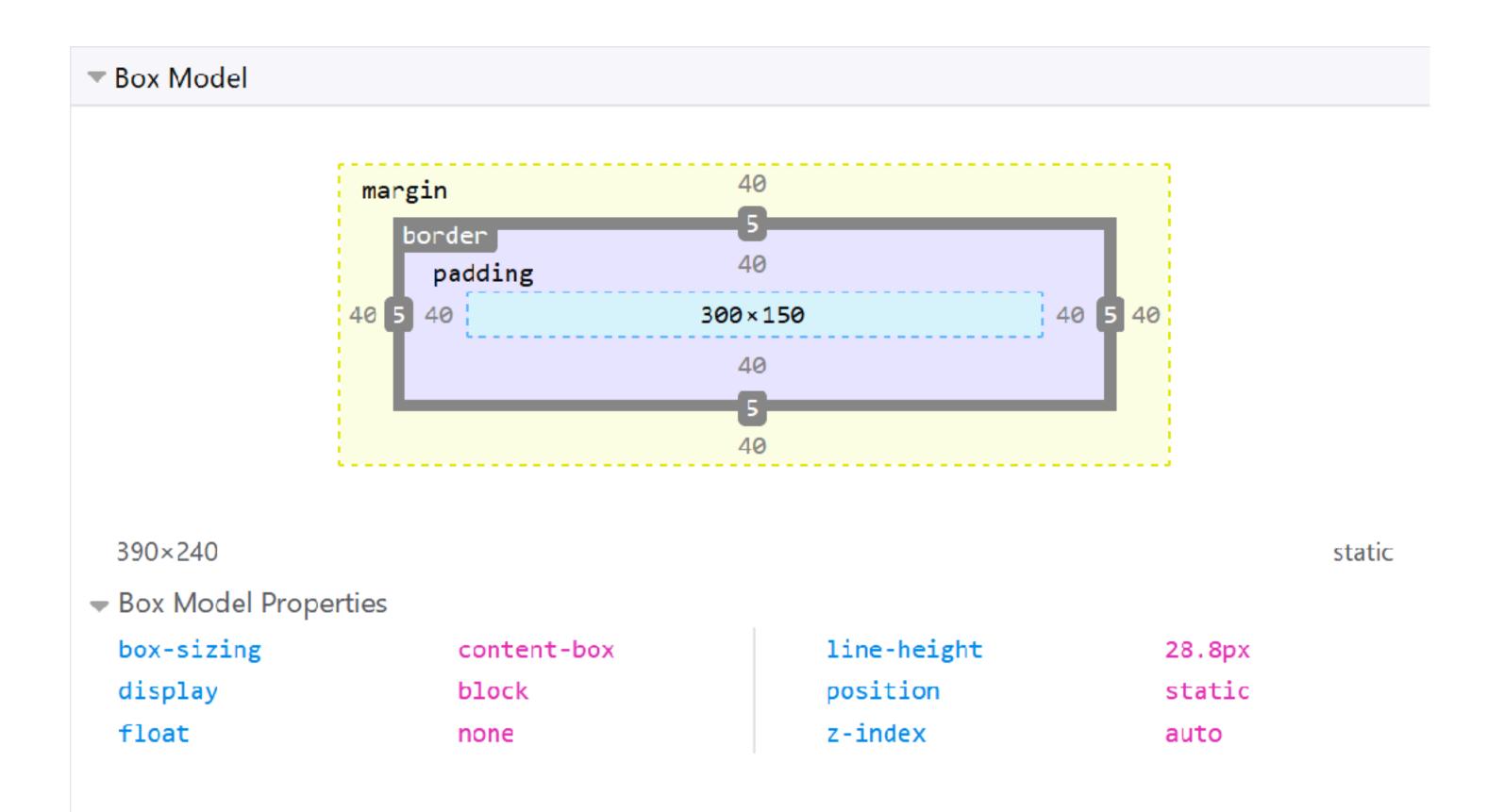
In this module



Summary

CSS Selectors

CSS Box Model



Common CSS Properties

- color
- background
- border
- font-size
- width
- padding
- margin
- position

- display
 - none
 - inline
 - block
 - inline-block
 - flex
 - grid

Module 4 Demonstration

- https://exsm-3928-module-4-start.glitch.me/
- Theory
 - css box model
 - difference between block and inline
 - how to center a div with flex box
- Practice
 - Style project from last week

Module Discussion

What features of design software are similar to writing CSS? Are some tasks easier in code than in software? Which?

Module 4 Prompt

Module Resources (extra)



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A Complete Guide to Flexbox



Chris Coyier on Apr 8, 2013 (Updated on Oct 11, 2022)

Our comprehensive guide to CSS flexbox layout. This complete guide explains everything about flexbox, focusing on all the different possible properties for the parent element (the flex container) and the child elements (the flex items). It also includes history, demos, patterns, and a browser support chart.

Table of contents

Part 1: Background

Part 2: Basics and terminology

Part 3: Flexbox properties

Part A. Drofiving Floybox

Get the poster!

Reference this guide a lot? Here's a high-res image you can print!



FLEXBOX FROGGY



Help all three frogs find their lilypads just by using justify-content. This time, the lilypads have lots of space all around them.

If you find yourself forgetting the possible values for a property, you can click on the property name to view them. Try clicking on justify-content.

```
#pond {
display: flex;
justify-content: center;
}

Next
```

Flexbox Froggy is created by <u>Codepip</u> • <u>GitHub</u> • <u>Twitter</u> • Settings

Want to learn CSS grid? Play Grid Garden.





HOME/GUIDES/

A Complete Guide to CSS Grid



Chris House on May 12, 2021 (Updated on Nov 14, 2022)

Our comprehensive guide to CSS grid, focusing on all the settings both for the grid parent container and the grid child elements.

Table of contents

Part 1: Introduction

Part 2: Basics

Part 3: Important Terminology

Part 4: Grid Properties

Part 5: Special Units & Functions

Part 6: Fluid Columns Snippet

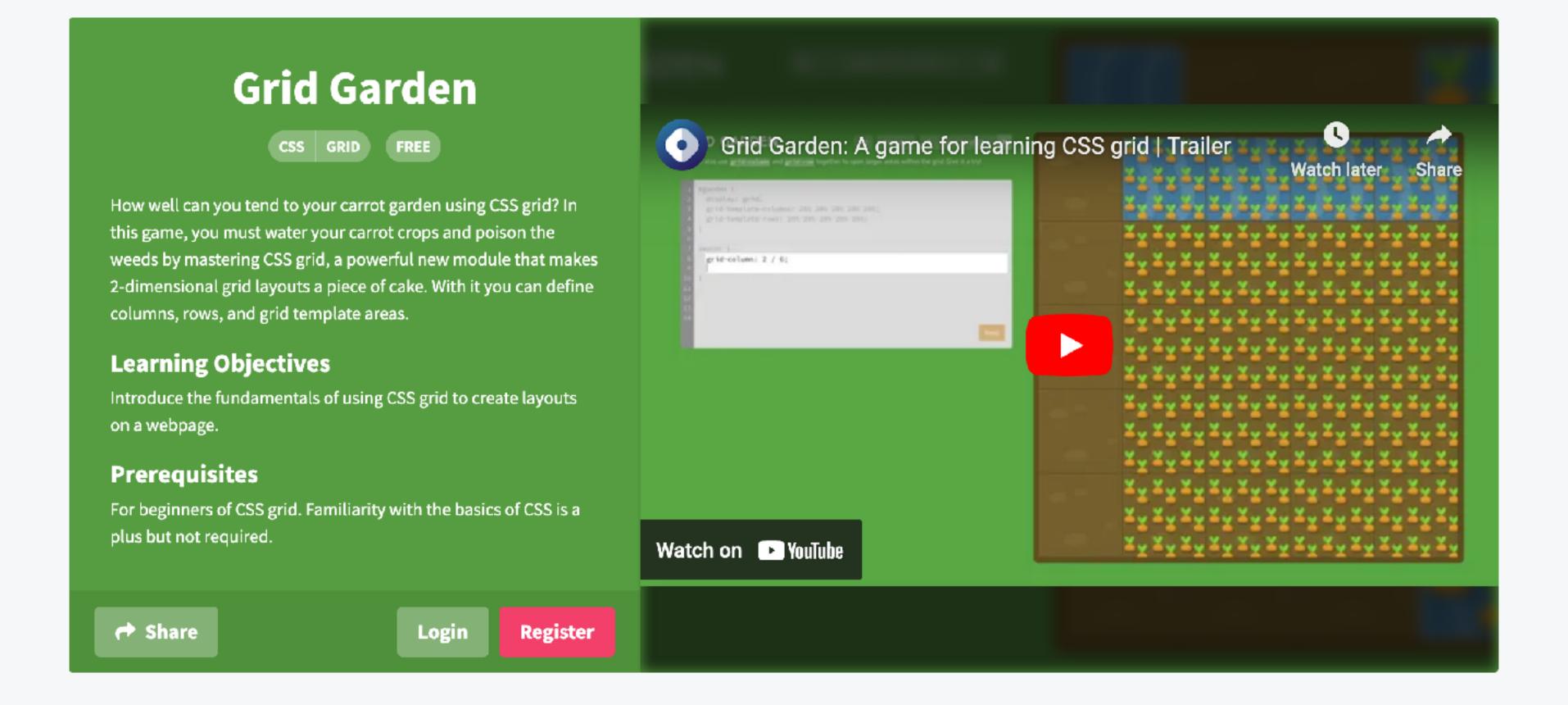
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Module 4 Assignment

See eClass for details