



Codergirl - JavaScript

Class 14

October 14, 2020

Agenda

- Studio coding activity – end at 6:20 pm
- Lecture – end at 6:45 pm
- Exercise – end at 7:10 pm

Studio – Communication Log

You and a partner will begin by coding in tag-team shifts. By the end of the task you should have a good idea about how to have two people work on the same code at the same time. You will learn how to:

1. Quickly add code in pull + push cycles (*Important! This is the fundamental process!*)
2. Add a collaborator to a GitHub Project
3. Share *repositories* on GitHub
4. Create a *branch* in Git
5. Create a *pull request* in GitHub
6. Resolve merge conflicts (which are not as scary as they sound)

This lesson reinforces:

1. Creating repositories
2. Cloning repositories
3. Working with Git concepts: Staging, Commits, and Status✓



git merge

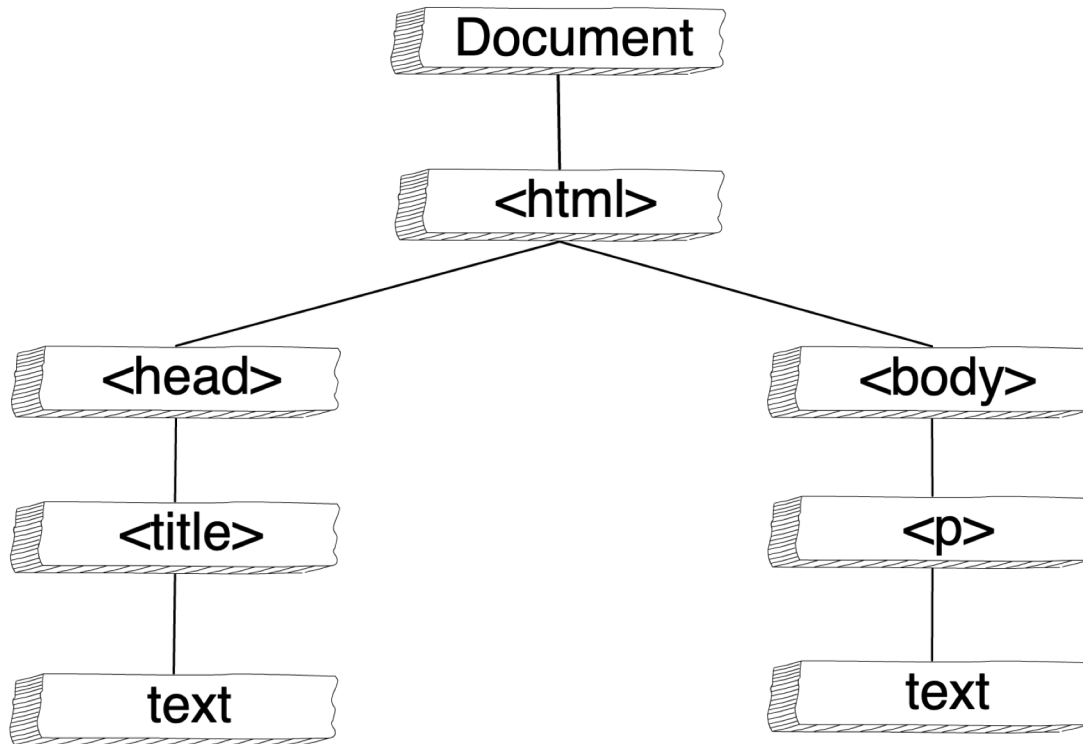
JS

- Static versus dynamic.
 - Static <https://minimal-ceramics.xyz/>
 - Mixed <https://www.bombayfoodjunkies.com/>
 - Likes or visitors on page, product info.
- **V8** is Google's open source high-performance JavaScript and Web Assembly engine, written in C++, Firefox uses SpiderMonkey, Mozilla uses Rhino
- <https://caniuse.com/>

Script tag

- `<script>` tag – JS executed by browser
- Inline
 - `<script> // JavaScript code goes here! console.log("Hello from inside the web page!"); </script>`
- External
 - `<script src = "myjs.js"></script>`

The DOM



DOM – methods and properties

- JS can alter the DOM – re-render
- window – browser window or tab

Method or Property	Syntax	Description
alert	<code>window.alert("String message")</code>	Displays a dialog box with a message and an "ok" button to close the box.
confirm	<code>window.confirm("String message")</code>	Displays a dialog box with a message and returns true if user clicks "ok" and false if user clicks "cancel".
location	<code>window.location</code>	Object that represents and alters the web address of the window or tab.
console	<code>window.console</code>	Represents the debugging console. Most common and basic use is <code>window.console.log()</code> .

DOM – methods and properties

- document – html page

Method or Property	Syntax	Description
title	<code>document.title</code>	Read or set the title of the document.
getElementById	<code>document.getElementById("example-id")</code>	Returns a reference to the element that's id attribute matches the given string value.
querySelector	<code>document.querySelector("css selector")</code>	Returns the first element that matches the given CSS selector.
querySelectorAll	<code>document.querySelectorAll("css selector")</code>	Returns a list of elements that match the given CSS selector.

DOM – methods and properties

- element– html element

Method or Property	Syntax	Description
getAttribute	<code>element.getAttribute("id")</code>	Returns the value of the attribute.
setAttribute	<code>element.setAttribute("id", "string-value")</code>	Sets the attribute to the given value.
style	<code>element.style.color</code>	Object that allows reading and setting <i>INLINE</i> CSS properties.
innerHTML	<code>element.innerHTML</code>	Reads or sets the HTML inside an element.

DOM – events

- Triggered – sent
- Handled – receiving and performing action
- Events – JS event driven, handle user interaction, dynamic, state – loading, styling, displaying elements.
- Different event types – load, click, mouseover

DOM – events

- **Inline Event handler.**
 - *On click of the button, print a message to the console.*
 - `<button onclick="console.log('you rang...');">Ring Bell</button>`
- **Event listener.**
 - If the code *hears* the event, then the event is handled.
 - `anElement.addEventListener("eventName", aFunction);`
 - `button.addEventListener("click", youRang);`
 - A benefit of using `addEventListener` is that an *event* parameter can be passed to the event handler function. This event is an object instance of the Event class, which defines methods and properties related to events.
- **Event Bubbling.**

Examples and Exercises

Questions?

The Habits That Keep Women from Reaching Their Goals

4.	The Twelve Habits	47
5.	Habit 1: Reluctance to Claim Your Achievements	63
6.	Habit 2: Expecting Others to Spontaneously Notice and Reward Your Contributions	76
7.	Habit 3: Overvaluing Expertise	86
8.	Habit 4: Building Rather Than Leveraging Relationships	96
9.	Habit 5: Failing to Enlist Allies from Day One	106
	Habit 6: Putting Your Job Before Your Career	

Studio time!