

Front End (16 weeks)

Objectives

- up to speed with recent technologies
- push past your limit
- explore and navigate javascript

• HTML and CSS project

- build your portfolio

Wk 1 (Day 1)

- what is the internet and how it works (google)
- Browsers, https, domain name, DNS
- vs code installation and work through (opening folders, creating files, renaming files, zooming, extensions)

Wk1 (Day 2)

- HTML usage (syntax, etc, open, it, it, tag, button, table, semantic tags, block level and inline elements, form and input tags, comments)
- simple project
- assignment

Assignment

- create the following table
- recreate this html page

Wk 2 (Day 1)

- CSS usage (ways of styling, syntax, selecting, color, background, border, height, width, text, font, comments)
- simple project (a to bar chart)
- assignment

Wk 2 (Day 2)

- CSS usage 2 (margin, padding, box model, flex, flex, overflow)
- simple project (a to bar chart)
- assignment

Assignment

- read up on styling tables

Wk 3 (Day 1)

- CSS Advanced usage 2 (hover, pseudo class for list, visibility, display, overflow)
- simple project
- assignment

Wk 3 (Day 2)

- CSS Advanced usage 2 (transition, flexbox)
- simple project
- assignment

Assignment

- create a horizontal scrollable card
- read up on css transform, attr-selector, background-image

Assignment

- read up on css media queries, animations, 3d

Wk 4 (Day 1)

- CSS Advanced usage 2 (grid, border-radius)
- simple project
- assignment

Wk 4 (Day 2)

- introduction to javascript
- JS is not java
- benefits of JS
- JS example clicking a button to create an alert
- ways to add JS to the browser
- output
- terminal output

Wk 5 (Day 1)

- Datatypes 1 (string, Numbers, Boolean, null, undefined)
- syntax (variables, var, let, const, creating valid variables, semi-colon)
- declaring and assigning of variables
- variables scoping
- concatenation of variables
- assignment

Wk 5 (Day 2)

- String (concat, of string, escape sequence, template strings, string methods)
- numbers (arithmetic operators, Numeric strings, NaN)
- assignment

Wk 6 (Day 1)

- Number methods
- Boolean
- operations
- if statement (true, nested if/else)
- truthy and falsy values
- switch statement
- assignment

Wk 6 (Day 2)

- operations
- if statement (true, nested if/else)
- truthy and falsy values
- switch statement
- assignment

Wk 7 (Day 1)

- Datatypes 2 (object)
- accessing an array
- modifying an array
- array methods
- searching an array
- sorting
- assignment

Wk 7 (Day 2)

- loops
- for loop
- loop with if statement
- while loop
- handling an array
- assignment

Assignment

- read up on do while loop and break

Wk 8 (Day 1)

- Functions
- calling functions
- with args and return
- return statement
- function expression
- assignment

Wk 8 (Day 2)

- Objects
- accessing objects
- modifying an object
- object method
- creating an object
- callback functions
- assignment

Assignment

- read up on hoisting and hoisting

Wk 9 (Day 1)

- DOM Manipulation
- innerHTML
- innerText
- event listener
- changing styles with JS
- assignment

Wk 9 (Day 2)

- Dates
- Async and Await
- Spread and Rest operators
- Destructuring
- Ternary Operator
- arrow function
- Deploying a Project
- assignment

Wk 10 (Day 1)

- basic terminal commands (cd, mv, touch, pwd, ls)
- git
- initializing a repo
- adding files to staging area and committing them
- committing
- pushing
- checking out of changes made

Wk 10 (Day 2)

- Github
- work through
- creating a github repo
- adding an existing repo from git
- creating branches and new with git
- pushing and pulling
- deleting branches
- Easy approach for with vscode with terminal

Learn some other thing

- learn more about git
- git
- understanding commit
- understanding changes
- showing commit
- advanced ways of pushing, committing and tagging

Wk 11 (Day 1)

- SPA
- introduction to React
- benefits and why?
- how it works?
- installation
- folder walk through
- running the server
- assignment

Assignment

- no tasks
- Refresh your memories etc
- Async and Await
- Spread and Rest operators
- Destructuring
- Ternary Operator
- arrow function

Wk 11 (Day 2)

- components and it's rules
- props drilling
- modulating our components
- component nesting
- props and state
- assignment

Assignment

- rendering props

Wk 12 (Day 1)

- rendering props
- props drilling
- objects, strings, array etc
- conditional rendering
- children props and jsx as props
- assignment

Wk 12 (Day 2)

- list and keys
- events
- controlled vs uncontrolled
- assignment

Wk 13 (Day 1)

- state in react
- props drilling
- hooks
- useState
- useEffect
- forms in react
- assignment

Wk 13 (Day 2)

- state in react
- props drilling
- hooks
- useState
- useEffect
- forms in react
- assignment

Assignment

- printing events as props

Assignment

- learn custom hooks

Wk 14 (Day 1)

- state in react
- props drilling
- hooks
- useState
- useEffect
- forms in react
- assignment

Wk 14 (Day 2)

- state in react
- props drilling
- hooks
- useState
- useEffect
- forms in react
- assignment