

Research and Planning

Responsive and Interactive Design (This ones for dean. I will forger)

Understanding the Audience and Context

Needs: The user wants to learn how to create responsive websites, create mobile first designs and how to make pages interactive with JavaScript.

[The 2021 New Coder Survey – More than 18,000 People Share How and Why They are Learning to Code \(freecodecamp.org\)](#)

Most people who want to learn how to code are around 25, don't already have a developer job, and only 20% of them attended a software related course in university. 80 percent of new coders want to use coding to help them in their career – whether that's starting a business, switching careers or succeed in their current career

This means that most people learning to code are young and may not have any experience in development, and we should focus on making a beginner-friendly website.

Contextual Inquiry

What is the environment our users will use the website in?

[Mobile vs Desktop Usage Statistics for 2024 | Research.com](#)

In 2019 more than 50% of people connected to the internet on phones and tablets combined so it will be very important to accommodate for mobile users when they take up most of the internet.

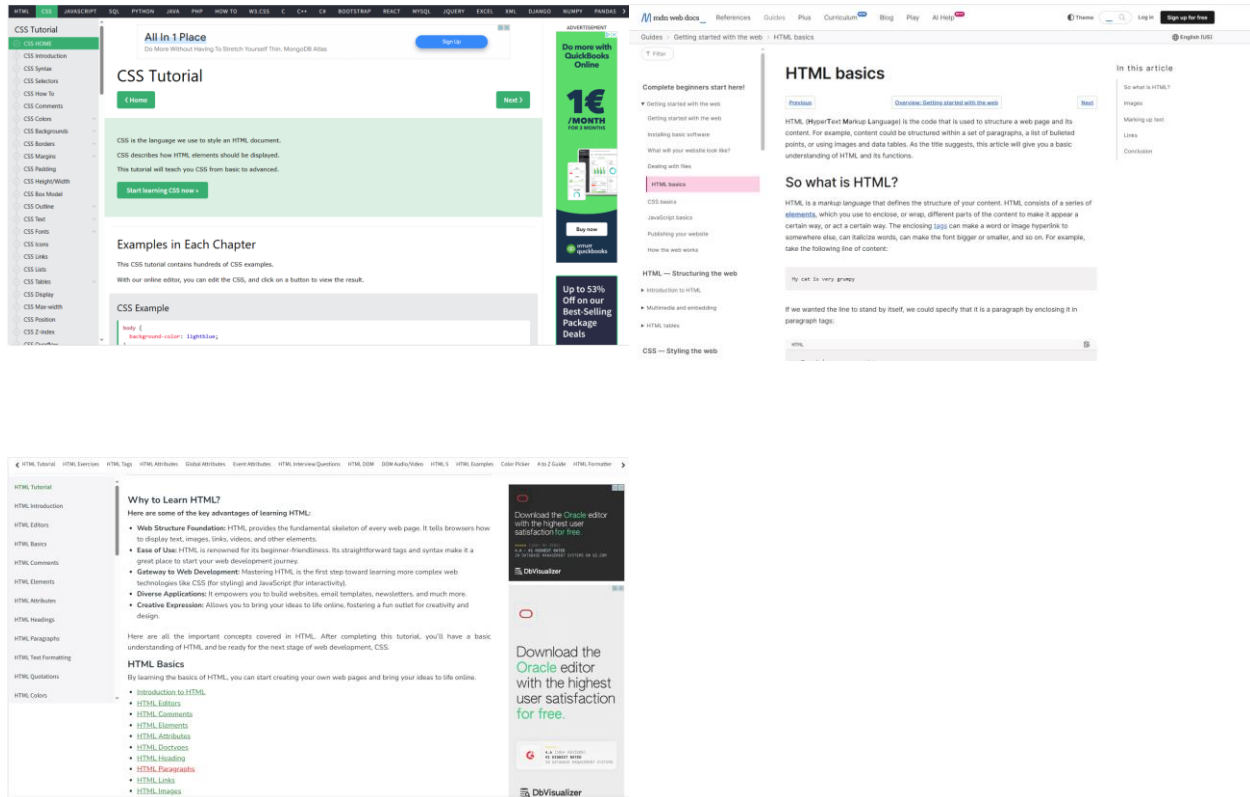
A report by LearnDash also stated that 70% of people feel more motivated to learn on their phones compared to their computer desktops.

[Software developers' average age when first coding worldwide 2021 | Statista](#)

The average age of someone starting to write code is around 11 – 17 and at that age they will have little to no money to spend and most likely not have a good desktop. So, we should aim to have our service have a free option and not have intense JavaScript that would lower the performance of the website.

Competitive Analysis

Here are some screenshots of the layouts of websites that focus on teaching HTML and CSS:

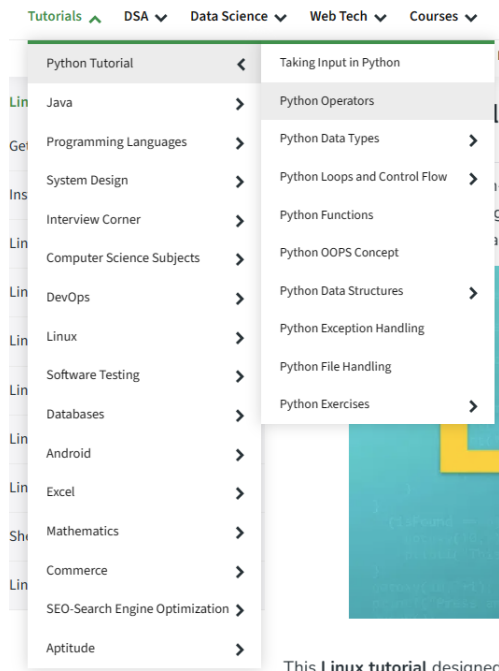


A popular layout is to have a sidebar on the left hand side that lists all the lessons in a certain subject, which allows the user to easily jump between unrelated lessons – they can skip the lessons that they already know. In mobile, the sidebar is hidden and can be popped in by pressing a button at the top – this is also consistently present.

The top bar is used for going between different subjects or major features of the website.

This main layout seems to be the standard, which users are familiar with.

One issue with this layout is that choosing which menu to scroll in can be annoying – on desktop, you have to click into the menu if you want to scroll through it, which may result in unwanted opening of a lesson. Hovering over the menu is not enough.



(Geekforgeeks.com main menu)

This way of organizing the main menu is a bit cluttered. It's an old school way of organizing menu which may be familiar for long-time developers, but for a beginner or someone less tech-savvy, navigating this could be frustrating.

Geekforgeeks.com have tutorials for absolute beginners.

It's unlikely that we will run into this issue – we won't have as much content to put into a menu

Accessibility and Inclusivity

It is important that we plan to adhere and follow the guidelines in the WCAG to incorporate inclusive designs so that anyone regardless of ability or disability can use the website.

The 14 guidelines of WCAG 1

- Guideline 1: Provide equivalent alternatives to auditory and visual content
- Guideline 2: Do not rely on colour alone
- Guideline 3: Use markup and style sheets, and do so properly
- Guideline 4: Clarify natural language usage
- Guideline 5: Create tables that transform gracefully
- Guideline 6: Ensure that pages featuring new technologies transform gracefully
- Guideline 7: Ensure user control of time sensitive content changes
- Guideline 8: Ensure direct accessibility of embedded user interfaces
- Guideline 9: Design for device independence
- Guideline 10: User interim solutions
- Guideline 11: Use [W3C](#) technologies and guidelines
- Guideline 12: Provide context and orientation information
- Guideline 13: Provide clear navigation mechanisms
- Guideline 14: Ensure that documents are clear and simple

Its important that we develop the website with the guidelines in mind while developing and designing the website and it would also be important to include these in the website due to it being about design