

Twitter Thread by Swapna Kumar Panda ■



Swapna Kumar Panda ■

[@swapnakpanda](#)



■ Beginner's Roadmap for Front-End

HTML & CSS → ■■■ → JavaScript → ■■■



■■■ ← React* ← ■■■ ← Tailwind*



TypeScript → ■■■ → Next.js* → ■■■ → ■



What would we cover?

- ❶ HTML & CSS
- ❷ JavaScript
- ❸ CSS Frameworks
- ❹ UI Frameworks
- ❺ TypeScript
- ❻ Server-side Frameworks
- ❼ Practice, Practice and, Practice
- ❽ Other Skills
- ❾ Frequently Asked Questions

❶ HTML & CSS

■ Your Front-End journey shall always start from HTML & CSS and, ends with these as well.

■ Don't over burden yourself to learn everything at once. It's a continuous subject.

■ Do not separate HTML from CSS. That's unnecessary.

<https://t.co/XiPrKuQrnB>

Beginner's Roadmap for HTML & CSS

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) April 18, 2022

② JavaScript

JavaScript is essential. You should start with basics and move to complex subjects.

- JavaScript Syntaxes
(preferably ES6 onwards)
- HTML DOM API
- Event Handling
- Fetch API

<https://t.co/MAkUW8h22i>

\U0001f6e3 Roadmap for JavaScript Absolute Beginners

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) March 29, 2022

③ CSS Frameworks

CSS Framework is necessary if you are planning to be a professional developer.

There are so many options available.

- Tailwind CSS
- Bootstrap
- Chakra
- Bulma
- Foundation
- Skeleton
- Pure CSS

Start with anything. You can switch any time.

④ UI Frameworks

To build a complex application, you will start using a UI framework sooner or, later.

They are,

- React
- Vue.js

- ☐ Angular
- ☐ Svelte

Go through their documentations. Choose according to your requirement, future interest.

5 TypeScript

- ☐ JavaScript initially looks to be enough. But once projects become complex and bigger, you will notice how tough it's getting to handle.
- ☐ The biggest drawback (biggest advantage as well) of JavaScript is its dynamic typing. TypeScript is for your rescue.

6 Server-side Frameworks

Client-side UIs (or, Single Page Applications) are

- ☐ Slow at startup
- ☐ Not fully SEO friendly
- ☐ Difficult to grow

Adapt to Server-Side frameworks.

- ☐ Next.js
- ☐ Gatsby
- ☐ NuxtJS

7 Practice, Practice and, Practice

- ☐ Don't just read books and, articles or, watch videos. To learn effectively, you have to practice.
- ☐ Practicing after each step is very very important.

I am here sharing few practice sets.

7.1 Practice Questions

<https://t.co/bteEMoeFMV>

Practice 50+ "Difference" Questions

\u274d HTML

\u274d CSS

\u274d JavaScript

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) March 25, 2022

7.2 Practice CSS

<https://t.co/WMbP2AtiBz>

50+ CSS Problems for Practice

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) March 4, 2022

7.3.1 Practice JavaScript

<https://t.co/VgO5EM1ykb>

\U0001f469\u200d\u0001f4bb Practice 100+ Problems

Using your favourite language

\u274d C

\u274d C++

\u274d Python

\u274d Java

\u274d C#

\u274d PHP

\u274d JavaScript

Or, anything.

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) April 8, 2022

7.3.2 Practice JavaScript

<https://t.co/B7ic7F6gR9>

\U0001f469\u200d\u0001f4bb Practice 50+ Problems

Using your favourite language

\u274d C

\u274d C++

\u274d Python

\u274d Java

\u274d C#

\u274d PHP

\u274d Golang

\u274d JavaScript

Crack your next Interview.

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) April 21, 2022

7.4 Build Projects

<https://t.co/kNf0P0JIBk>

100+ Project Ideas for JavaScript Beginners

\u21e9

— Swapna Kumar Panda \uea00 (@swapnakpanda) March 26, 2022

8 Other Skills

These are some mandatory skills

1 Git

Knowledge of Git is must. You can use clients like GitHub, GitLab etc.

2 Data Structures

You should learn basic data structures like Array, Linked List, Stack, Queue, Tree, Graph etc.

Below are some "nice-to-have" skills

3 CSS Preprocessors

CSS is powerful but, sometimes we may need features which are not available in CSS. There, CSS Preprocessors help a lot.

We can choose from

- ☐ Sass
- ☐ LESS
- ☐ Stylus
- ☐ PostCSS

4 Web APIs

Apart from DOM API and Fetch API, you may have to use many other APIs for building a great web application.

<https://t.co/ISM6631s7N>

11 Web APIs for Advanced Web Development

⑤ State Management Libraries

Managing data (state) in a UI application becomes a tough task when they become abundant.

You may consider to use

- ☐ Redux
- ☐ Mobx
- ☐ React Query
- ☐ xstate

⑥ GraphQL

Traditional data fetching from server is a repetitive and slower operation.

GraphQL is a nice invention. It's grooming. Consider using any of the below GraphQL clients.

- ☐ Apollo Client
- ☐ Relay
- ☐ GraphQL Request
- ☐ AWS Amplify
- ☐ urql

⑨ Frequently Asked Questions

① Can I learn JavaScript before HTML & CSS?

Yes. You can learn basic syntax.

For DOM API and Event Handling etc., you would need knowledge of HTML & CSS.

② Can I learn TypeScript before React & Tailwind?

Yes. This is for illustration only. You can always prepare these 3 in any order.

③ Why Tailwind, but no Bootstrap?

It's just for illustration. You can choose any CSS Framework of your choice.

④ Why no Angular?

It's just for illustration. You can choose any JS Framework of your choice.

⑤ Why are only JS frameworks mentioned?

I have prepared this roadmap keeping JS frameworks in mind. You can chose any framework.

⑥ There are no CSS Preprocessors?

CSS Preprocessors are helpful, no doubt. But, in most circumstances, you may not need them. Use them as per the need.

⑦ Does ■ mean, it's finished?

No. The Web Development is evolving every day. So, don't stop.

Hey ■

I am a Tech Educator from India ■■

Here, I am sharing Tutorials, Tips, Infographics, Cheat Sheets, Interview Questions, Project Ideas and Roadmaps on Web Development, DSA and, Database.

To never miss anything,

→ Follow ■ me

→ Keep ■ ON

*Final

Git ▲ DSA▲

HTML & CSS → ■■■ → JavaScript → ■■■

↓

■■■ ← React* ← ■■■ ← Tailwind*

↓

TypeScript → ■■■ → Next.js* → ■■■ → ■