2021 Frontend Roadmap

By Web Dev Simplified   https://courses.webdevsimplified.com

Each section, and all the items listed in each section, of this roadmap are listed in the order that you should learn them.

Each section also includes projects that you can complete in any order that require only the skills learned in that section and the sections prior.

HTML

Basics - Playlist

Forms - Video

Emmet - Video

CSS - Course

Selectors - Video, Cheat Sheet

Cascade

Specificity - Video, Article

Box Model - Video

Position - Video

Display - Video

Flexbox - Video

Grid - Video

Float - Article

Calc - Video, Article

Pseudo Elements - Video

Pseudo Classes

Custom Properties - Video, Article

Media Queries - Video

Animation - Basic Video, Advanced Video, Transform Article, Fill Mode Article

Projects

Easy

Transparent Login Form - Video
Responsive Video Background - Video

Medium

CSS Only Tooltips - Video
CSS Emoji Art - Video
CSS Face Art - Video
Advanced Hover Effects - Video
Animated Page Load - Video
Custom Checkbox Tutorial - Video
3D Flip Button - Video
Animated Loading Spinner - Video

Hard

YouTube Clone - Video
Price Comparison Table - Video
Landing Page 1 - Video
Landing Page 2 - Video

JavaScript - [Course](#)

Async vs Defer Script Loading - [Video](#), [Article](#)

Var vs Let vs Const - [Video](#), [Article](#)

Strict Equality - [Video](#), [Article](#)

Hoisting - [Article](#)

Scoping

DOM Traversal - [Video](#)

Closures - [Video](#)

Reference Vs Value - [Video](#)

DOM Manipulation - [Video](#)

Arrow Functions - [Video](#), [Article](#)

Callbacks - [Article](#), [Related Video](#)

Event Listeners - [Video](#)

Promises - [Video](#)

Async Await - [Video](#)

Fetch - [Video](#)

Browser Storage - [Video](#), [Article](#)

Event Loop

Modules - [Video](#), [Advanced Article](#)

Template Literals - [Article](#)

Array Methods - [Video](#)

Null Vs Undefined - [Article](#)

Recursion - [Video](#)

Short Circuiting - [Article](#)

Ternary Operator - [Video](#), [Article](#)

Destructoring/Spread Operator - [Video](#), [Article](#)

Classes - [Video](#)

Bundlers - [Parcel Video](#)

Projects

Easy

Form Validation - [Video](#)
Light/Dark Theme Toggle - [Video](#)
Google Maps Clone - [Video](#)
Analog Clock - [Video](#)
Impossible To Click Button - [Video](#)
Simple Tabs - [Video](#)
Rock Paper Scissors Game - [Video](#)
Text To Speech - [Video](#)
Eye Tracking Program - [Video](#)
Expandable Content - [Article](#)
Modal - [Video](#)

Medium

Password Strength Tester - [Video](#)
Password Generator - [Video](#)
Quiz App - [Video](#)
Card Game - [Video](#)
Snake Game - [Video](#)
AI Face Detection - [Video](#)
AI Face Recognition - [Video](#)
Thanos Snap Effect - [Video](#)
Sortable Drag And Drop - [Video](#)
Speed Typing Game - [Video](#)
Tic Tac Toe - [Video](#)
Browser Based Guitar Amp - [Video](#)
Text Adventure Game - [Video](#)

Hard

Custom Select Dropdown - [Video](#)
Calculator - [Video](#)
Card Matching Game - [Video](#)
Advanced Todo List - [Video](#)
Mars Weather App - [Video](#)
Battleship Clone - [Video](#)

Frontend Framework - (Optional) (Choose Any)

React (Recommended) - Course

Vue (Second Recomendation)

Angular (Declining Popularity)

Svelte (Growing Popularity)

React - Course

Component Model - Video

JSX

Events

Class vs Function Components

Props - Video

State - Video, Article

useEffect - Video, Article

useLayoutEffect - Article

Context - Video, Article

Refs - Video, Article

useMemo - Video, Article

useCallback - Video, Article

useReducer - Video, Article

Custom Hooks - Video, Article

PropTypes - Article

Portal - Video, Article

Best Practices - Video, Local State Article, Derived State Article, Debounce Article

Projects

Easy
   Todo List - Video
   Currency Converter - Video
   Photoshop Clone - Video

Medium
   Pokemon App - Video
   CodePen Clone - Video
   Infinite Scrolling - Video

Hard
   Flashcard Quiz App - Video
   Authentication (Firebase) - Video
   Google Drive Clone (Firebase)- Video

Other Important Topics

Version Control (Learn As Soon As Possible) - [Video](#)

JSON (Learn Alongside JavaScript) - [Video](#)

Regular Expressions (Optional) - [Video](#)

How To Deploy

Basic Security - [Cross Site Scripting Video](#), [Cross Site Scripting Article](#)

Testing - [Video](#), [Test Driven Development Video](#)

Things That Will Grow In 2021

TypeScript

Next.js (Fullstack Framework For React)

Nuxt.js (Fullstack Framework For Vue)

Progressive Web Apps

Single Page Apps

Serverless (Firebase, AWS Lambda, Azure, etc.) - [Video](#)