



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

Projects

Easy

Transparent Login Form - <u>Video</u> Responsive Video Background - <u>Video</u>

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

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

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

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

Al Face Detection - Video

Al 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

Destructoring/Spread Operator - Video, Article

Classes - Video

Bundlers - Parcel 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 - <u>Video</u>

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

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

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

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