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Html css javascript sample projects

We will build together more than 30 different and creative web projects with three core technologies—HTML, CSS, and JavaScript. If you have some basic knowledge of these technologies and still have some trouble creating your own web projects, or if you want to level up your developer and designer skills, then you have come to the right place. We will build more than 30 different web projects and they will be full of modern, nice, and beautiful effects and designs. We will start with simple projects, and we will go through some advanced ones as well. Using this course, you can get the inspiration that will help you enhance your projects and customize your portfolio. Mastering just these core technologies of front-end web development, you can create awesome and modern themes and simply get hired. Also, you will have enough knowledge to move on and learn other technologies such as some front-end frameworks and libraries, which nowadays are popular and highly demanded. By the end of the course, you will master front-end web development and gain the confidence to apply modern and creative effects and designs in your future projects. All resources and code files are placed here: According to the 2021 Stack Overflow Developer Survey, JavaScript has spent nine years in a row as the most commonly used programming language, with 69% of developers using it extensively. If you're interested in becoming a web developer (front end, back end, or full stack), JavaScript is one of the best programming languages you can learn. Vanilla JavaScript, also known as "plain" JavaScript — meaning without any frameworks — is one of the foundations of coding and web development. Most web pages you see are built using a combination of HTML, CSS, vanilla JavaScript, and API calls. Getting familiar with JavaScript basics means using those JavaScript skills to build JavaScript projects. Luckily, we know some fun JavaScript projects you can do to hone your skills from the thousands of students we've trained in our front end development job training program, Break into Tech. What we see with our successful students who have landed jobs at companies like GoDaddy, Toast, Asics Digital, 1Password, Figure and Apple is that they all have practice projects, portfolios that show off their front end developer skills, and are very well versed in JavaScript. If you want to practice your front end developer skills, we've put together a list of 20+ JavaScript projects you can start working on right now. When you find a JavaScript project that piques your interest, follow the project link. Each of these open source JavaScript projects have their source code listed on their homepage for you to use as a guide. Lisa Savoie, one of Skillcrush's JavaScript instructors, recommends reading the source code out loud to understand it better, looking for features to incorporate into other projects, or even retyping it to work on your muscle memory of how to write functions, variables, and loops. She says, "You can Google methods you're unfamiliar with to learn more about them or even break the code and fix it — It's fun to break things!" Table of Contents You Will Learn: If a career in tech is right for you What tech careers fit your strengths What skills you need to reach your goals Take The Quiz! JavaScript Projects Common Mistakes Types! Read what the console is telling you, especially if you keep getting error messages Are you working with the right type of variable? Is var, let, or const the right choice? Is your logic sound? Are you properly using your array methods (when those are appropriate)? Are you factoring in edge cases like empty inputs or negative integers? Are you passing the right kind/type of argument to a function? JavaScript Projects for Beginners 1. Mouseover Element Why do this project? You'll see how JavaScript functions work and practice your JavaScript logic It's a fun project to do to live up your user experience Learn more about using random, functions, and event listeners. Mouseover Element Source Code Key concepts covered: Functions and if-else statements Random Event listeners What to do: Copy the source code from CodePen. Implement the JavaScript code so that when you hover your mouse over a colored ball, it gets bigger. Bonus Challenge: To test your understanding of the concepts behind the mouseover element, your bonus challenge is this custom cursor project. 2. JavaScript Clock Why do this project? You get hands-on with the kind of actual work you'll be doing as a JavaScript developer. You'll apply key JavaScript concepts and have an adorable project for your portfolio. Practice concepts like variables, conditional logic, and date API JavaScript Clock Source Code Key concepts covered: What to do: Copy the source code from CodePen. Implement the JavaScript code so that every time you click the "Party Time!" button in the time range that you specify, you get a different LOLcat. You can set different times to see different images — there are four images total. Bonus challenge: Now that you've mastered the Lolcat JavaScript clock, challenge yourself by building your own countdown timer. 3. Magic 8 Ball Why do this project? It gives you a solid foundation for how to use Math.random to produce randomized results for JavaScript projects You can use this project to impress your friends and make small life decisions Learn more about how to use the random function, nested functions, and event listeners Magic 8 Ball Source Code Key concepts covered: Math.random Nested functions Event listeners What to do: Copy the source code from GitHub for HTML and CSS. Implement the JavaScript code so that you can grab the 8 ball, ask it a question, shake it, and have the 8 ball respond with a somewhat enigmatic, somewhat applicable answer. Bonus Challenge: To test your understanding of the concepts behind the Magic 8 Ball, your bonus challenge is this dad joke generator. 4. To-Do List Why do this project? You'll beef up your skills at coding interactive lists, which lets users add, remove, and group items You can use this project in your daily life and add it to your portfolio Learn more about how to use arrays, nested functions, and local storage API To-Do List Source Code Key concepts covered: Local storage API Arrays Nested functions Event listeners DOM manipulation What to do: Copy the source code from CodePen. Implement the JavaScript code so that you can add new items and use the buttons to toggle completed items, edit items, or delete items. Bonus Challenge: To test your understanding of the concepts behind the To-Do list, your bonus challenge is this JavaScript grocery list. 5. Epic Mix Playlist Why do this project? It helps you practice core JavaScript skills, such as forEach loops and event listeners, and work with functions and lists You can use this project to show people looking at your portfolio your great taste in music Learn more about how to classList, innerHTML, forEach, and template literals Epic Mix Playlist Source Code Key concepts covered: Array loops (forEach) document.createElement Append to an array Template literals What to do: Copy the source code from CodeSandbox. Implement the JavaScript code so that you can create an auto-generated list of your favorite songs and their indexes. Bonus Challenge: To test your understanding of the concepts behind the epic mix playlist, your bonus challenge is this favorite movie list. 6. Pet Rescue Why do this project? It gives you a solid foundation for understanding factory function patterns and parameters You can use this project to contribute to pet rescues or display inventory for products on an ecommerce site Learn more about how to use factory functions, parameters, methods, and objects Pet Rescue Source Code Key concepts covered: Factory functions Object methods and properties What to do: Copy the source code from CodeSandbox. Implement the JavaScript code so that you can accept an animal's name, species, and energy level as a parameter and indicate each animal's status (whether they are sleeping or awake). Bonus Challenge: To test your understanding of the concepts behind Pet Rescue, your bonus challenge is this inventory system. 7. Drum Kit Why do this project? You can see the interaction between seeing elements on the page and listening to sound and learning how to add and remove elements You can use this project to practice your drum skills with your JavaScript skills Learn more about how to use audio tags and document.querySelector Drum Kit Source Code Key concepts covered: Arrays Event Listener Audio tags document.querySelector Glass What to do: Clone the GitHub repo. Implement the JavaScript code so that you can play the drums by pressing specific keys in the browser. Bonus Challenge: To test your understanding of the concepts behind the drum kit, your bonus challenge is this JavaScript piano player. 8. Speech Detection Why do this project? It gives you a basis for understanding how speech detection works, which is good (and very cool!) to know You'll have a nifty notetaking method straight in your browser Learn more about speech recognition, text content, and event listeners Speech Detection Source Code Key concepts covered: Window.SpeechRecognition Arrays .textContent Event listeners What to do: Copy the source code from GitHub. Implement the JavaScript code so that when you speak, whatever you say is transcribed on the lined paper on your screen. Bonus Challenge: To test your understanding of the concepts behind speech detection, your bonus challenge is this text to speech in different languages. 9. Sticky Navigation Why do this project? It teaches you how to keep your elements in a fixed position on a page, which is a skill you might need in your front end developer role You can use this to upgrade the design of your website or portfolio Learn more about how to use query selectors, event listeners, and offsetting Sticky Navigation Source Code Key concepts covered: .querySelector offsetTop Event listeners What to do: Copy the source code from GitHub. Implement the JavaScript code so that when you scroll up or down the page, your navigation bar remains in a fixed and visible position. Bonus Challenge: To test your understanding of the concepts behind sticky navigation, your bonus challenge is to create a sliding navigation. 10. Geolocation Why do this project? You can learn more about how to develop for mobile, how geolocation works, and how to test your code using simulators or a different device You can use this project in your daily life (if you get lost easily) Learn more about how to use query selectors, watch position, and coordinates Geolocation Source Code Key concepts covered: .querySelector .watchPosition .textContent What to do: Copy the source code from GitHub. Install packages with npm and run your local server. Implement the JavaScript code so that you see your location in real time. You will need iOS or an iOS simulator to test whether or not your code works. Bonus Challenge: To test your understanding of the concepts behind geolocation, your bonus challenge is this weather forecast tool. 11. Movie App Why do this project? It gives you a solid foundation of how JavaScript works with HTML, CSS, and other tools You can use this project to make your own custom movie app Learn more about how to use JavaScript with jQuery, Bootstrap, and API calls Movie App Source Code Key concepts covered: API calls Functions On click event What to do: Copy the source code from GitHub. You'll need to get yourself an API key! Implement the JavaScript code so that you can make your own movie app that lets you view the most popular movies, sort them by genre, and search for other movies. Bonus Challenge: To test your understanding of the concepts behind the movie app, your bonus challenge is to build an ecommerce landing page. 12. Name Tags Why do this project? It lets you practice using React to create a practical and useful tool You can use this project to hone your React skills and key concepts Learn more about how to handle user input, work with stateful components, and render array data models Name Tag Generator Source Code Key concepts covered: Handling user input Stateful components Render array data models What to do: Copy the source code from CodeSandbox. Implement the JavaScript code so that you can build a text box and button to let users input text and have it respond to the input by generating a new name tag! Bonus Challenge: To test your understanding of the concepts behind the name tag generator, your bonus challenge is this Pokemon React generator. (Back to top.) You Will Learn: If a career in tech is right for you What tech careers fit your strengths What skills you need to reach your goals Take The Quiz! 13. Tone.js Why do this project? You'll learn how to create interactive web browser music with advanced scheduling capabilities, synths and effects, and intuitive musical abstractions built on top of the Web Audio API You can use this project to be your own personal DJ and music producer, for free! Learn more about how to use event listeners. triggerAttack, triggerRelease, and different kinds of synths Tone.js Source Code Key concepts covered: triggerAttack and triggerRelease Event listeners. querySelector tone.Loop What to do: Copy the source code from the Tone.js GitHub.io page. Implement the JavaScript code so that you can create interactive music in your own browser. Bonus Challenge: To test your understanding of the concepts behind the To-Do list, your bonus challenge is this JavaScript grocery list. 14. Election Map Why do this project? It gives you a solid foundation of the difference between JavaScript, HTML, and CSS, especially what JavaScript does and how it does it You can use this project in your daily life and add it to your portfolio Learn more about how to use arrays and nested functions Election Map Source Code Key concepts covered: If-else and function practice Parent-child relationships getElementById What to do: Copy the source code from JSBin. Implement the JavaScript code so that you can add two candidates running for president and display the number of votes they received from each state, both in a table on the bottom right and when you mouse over a state. Bonus Challenge: To test your understanding of the concepts behind the election map, your bonus challenge is this interactive map. Why do this project? It introduces you to Angular JS and more advanced JavaScript concepts You can see how login authentication works behind the scenes Learn more about how to use function states, app controllers, and dependencies Login Authenticator Source Code Key concepts covered: AngularJS State management App controller Dependencies What to do: Copy the source code from CodePen. Implement the JavaScript code so that you can enter an email address and password, and have the system tell you if the email address is invalid when you press the "Submit" button. Bonus Challenge: To test your understanding of the concepts behind the Login Authenticator, your bonus challenge is this password generator. 16. Guess the Word Why do this project? It gives you a solid foundation for methods, creating global variables, and working with event listeners You can use this project as a party game or challenge with your friends and coworkers Learn more about how to use methods, functions, and regular expressions Guess the Word Source Code Key concepts covered: Methods like match(), split(), trim(), and join() Regular expressions. querySelector Event listeners What to do: Copy the source code from GitHub. Implement the JavaScript code so that players start by entering a letter. If they guess correctly, the letter appears in the word. If they guess incorrectly, they learn how many guesses they have remaining. The player can also see which letters they've already guessed. The game lets the player know if they've already guessed a letter or entered a non-alphabetic character! Bonus Challenge: To test your understanding of the concepts behind the Guess the Word game, your bonus challenge is this Wordle game. Warning: the difficulty level for this is advanced, so if you're having trouble with it, it's not you! 17. Terminalizer Why do this project? It teaches you how to record your terminal screen and share your work with others You can use this project to debug and work on coding projects with friends Learn more about how to use recording files, frame delays, and set idle times Terminalizer Source Code Key concepts covered: Recording files Using frameDelay Setting idle time What to do: Copy the source code from GitHub. Implement the JavaScript code so that you can record your terminal and generate animated GIF images or share web player links. Bonus Challenge: To test your understanding of the concepts behind Terminalizer, your bonus challenge is to figure out how to play/pause GIFs. 18. Chat App Why do this project? It gives you a solid foundation of how JavaScript and its front and back end libraries can be used to create applications You can add this project to your portfolio to show your knowledge of programming concepts as a full stack developer Learn more about how to use ReactJS, NodeJS, and sockets along with JavaScript Chat App Source Code and YouTube tutorial link Key concepts covered: What to do: You won't be able to clone and run the project straight from GitHub because there is no package.json file, but you can build this using the YouTube tutorial Implement the JavaScript code so that you can build a real time chat application that lets you send and receive messages using web sockets Bonus Challenge: To test your understanding of the concepts behind the chat application, your bonus challenge is this React text editor. 19. Tic Tac Toe Game Why do this project? This project will test your HTML semantics and your JavaScript logic skills You can use this as a practice project and for something to do while your code compiles Learn more about how to use arrays, grid methods, and event listeners Tic-Tac-Toe Source Code Key concepts covered: What to do: Copy the source code from CodePen. Implement the JavaScript code so that the player can set difficulty level as easy or hard, choose whether to play as X or O, play a game with the computer, have it remember who won or drew, and play again. Bonus Challenge: To test your understanding of the concepts behind the Tic-Tac-Toe game, your bonus challenge is this hangman game. 20. Hotel Booking App Why do this project? You'll get to practice key concepts in JavaScript ES6 and React JSX You can use this project to practice building sites with more functionality and use some of your creativity by making it look really spiffy Learn more about how to manage data flow and manipulate the DOM Hotel Booking App Source Code Key concepts covered: ES6 and React JSX practice Managing data flow DOM manipulation What to do: Copy the source code from CodePen. Implement the JavaScript code so that you can create a sample booking on a hotel site, complete with filtered search results, room inventory display, and hotel ratings. Bonus Challenge: To test your understanding of the concepts behind the Hotel Booking App, your bonus challenge is this ticket booking app. (Back to top.) Advanced JavaScript Projects 21. Maze Game Why do this project? It gives you a solid idea of how JavaScript core skills and functions can be used to create interactive games You can put this project in your portfolio and challenge friends Learn more about how to use JavaScript math concepts, create elements, and use loops Maze Game Source Code Key concepts covered: Random and Floor Element creation Loops What to do: Copy the source code from CodePen. Implement the JavaScript code so that you can get the pickle from one end of the maze to another using the arrow functions (or AWS) on your keyboard, have it display the number of steps it took to complete the maze, and be able to set the difficulty level. Bonus Challenge: To test your understanding of the concepts behind the maze game, your bonus challenge is this Tetris game. (Back to top.) You Will Learn: If a career in tech is right for you What tech careers fit your strengths What skills you need to reach your goals Take The Quiz!

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