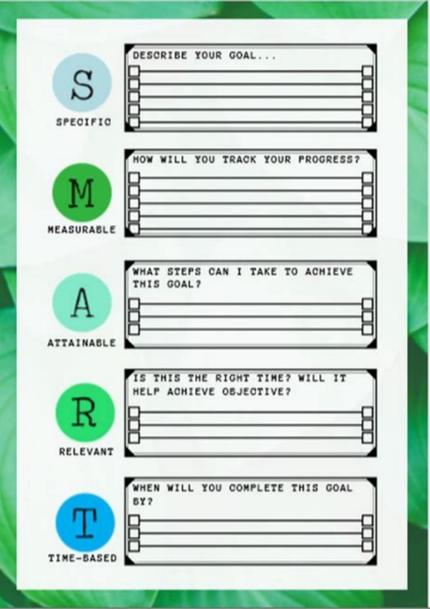
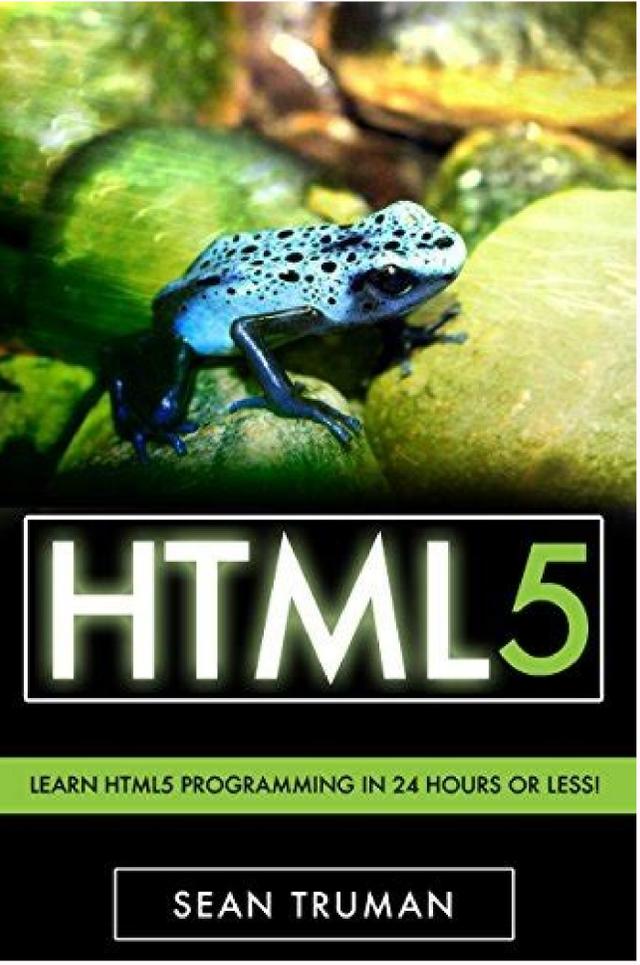


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Building interactive websites can involve sending JavaScript to your users. Often, too much of it. Have you been on a web page on your phone that looked like it had loaded, only to have nothing happen when you tapped a link or tried to scroll? We all have. Byte-for-byte, JavaScript is still the most expensive resource we send to mobile phones because it can delay interactivity in significant ways (opens in new tab). In this feature we'll cover some strategies for delivering JavaScript efficiently to your users on mobile, while still giving them a valuable experience. On this page, we'll dig into exactly what's causing the problem. Jump to page 2 for some advice on exactly how to reduce your JavaScript load times, including some web design tools to help you monitor your sites effectively (decent web hosting will help with this, too). Want to simplify things? Try a brilliant website builder, or see our selection of CSS and JavaScript tutorials. Why is JS slowing your mobile sites down? When users access your site, you're probably sending down a lot of files, many of which are scripts. Perhaps you added a quick JavaScript library or plugin but didn't have a chance to check just how much code it was pulling in? It's happened to many of us. As much as I love JavaScript, it's always the most expensive part of your site. I'd like to explain why this can be a major issue. Statistics from the HTTP Archive state of JavaScript report, July 2018 (opens in new tab) Many popular sites ship megabytes of JavaScript to their mobile web users. The average web page today currently ship a little less - a median of about 350kB (opens in new tab) of minified and compressed JavaScript. Uncompressed, that bloats up to over 1MB of script a browser needs to process. Experiences that ship down this much JavaScript take more than 14 seconds to load and get interactive on mobile devices. A large factor of this is how long it takes to download code on a mobile network and then process it on a mobile CPU. Not only can that 350kB of script for a median site from earlier take a while to download, the reality is, if we look at popular sites, they actually ship down a lot more script than this. We're hitting this ceiling across both desktop and mobile web, where sites are sometimes shipping multiple megabytes of code that a browser then needs to process. The question to ask is: can you afford this much JavaScript (opens in new tab)? Sites today will often send the following in their JavaScript bundles: A suite of user-interface components (for example, code for widgets, carousels or drawers) A client-side framework or user-interface library Polyfills (often for modern browsers that don't need them) Full libraries vs only what they use (for example, Moment.js and locales vs a smaller alternative like date-fns or Luxon) This code adds up. The more there is, the longer it will take for a page to load. Loading a modern web page Click the icon in the top right to expand the image (opens in new tab) Loading a web page is like a film strip that has three key moments: Is it happening? The moment you're able to deliver some content to the screen. Has the navigation started, has the server started responding? Is it useful? The moment when you've painted text or content that enables the user to derive value from the experience and engage with it. Is it usable? The moment when a user can start meaningfully interacting with the experience and have something happen. I mentioned this term 'interactive' earlier but what does that mean? For a page to be interactive, it must be capable of responding quickly to user input. A small JavaScript payload can ensure this happens fast. Whether a user clicks on a link or scrolls through a page, they need to see that something is actually happening in response to their actions. An experience that can't deliver on this will frustrate your users. When a browser runs many of the events you're probably going to need, it's likely going to do it on the same thread that handles user input. This thread is called the main thread. Too much (main thread) JavaScript can delay interactivity for visible elements. This can be a challenge for many companies. Why is JavaScript so expensive? So why exactly is JavaScript causing these problems? A request is sent to a server, which then returns some HTML. The browser parses that markup and discovers the necessary code (CSS and JavaScript) and resources (images, fonts etc) composing it. Once complete, the browser has to download and process these files. If we want to be fast at JavaScript, we have to download it and process it quickly. That means we have to be fast at the network transmission and the parsing, compiling and execution of our scripts. If you spend a long time parsing and compiling script in a JavaScript engine, that delays how soon a user can interact with your experience. Click the icon in the top right to enlarge Keep in mind that resources on the web have different costs. A 200kB script has a different set of costs to a 200kB JPG. They might take the same amount of time to download but when it comes to processing the costs aren't the same. A JPEG image needs to be decoded, rasterised and painted on the screen. This can usually be done quickly. A JavaScript bundle needs to be downloaded and then parsed, compiled and executed. This can take longer than you might think on mobile hardware. What is a good target for interactivity? We on the Chrome team feel your baseline should be getting interactive in under five seconds on a slow 3G or 4G connection on a median mobile device (opens in new tab). You might say: 'My users are all on fast networks and high-end phones!' But are they? You may be on 'fast' coffee-shop Wi-Fi but effectively only getting 2G or 3G speeds. Variability matters. Click the icon in the top right to expand the image (opens in new tab) Mobile is a spectrum composed of low-end, median and high-end devices. If we're fortunate, we may have a high-end phone, but the reality is that not all users will have those devices. If your device isn't up to your storage needs, try these cloud storage options. They may be on a low-end or median phone and the disparity between these multiple classes of devices can be stark due to thermal throttling, difference in cache sizes, CPU, GPU - you can end up experiencing different processing times for resources like JavaScript, depending on the device you're using. Your users on low-end phones may even be in the US (opens in new tab). Some users won't be on a fast network or have the latest and greatest phone, so it's vital that we start testing on real phones and networks. Fast devices and networks can actually sometimes be slow; variability can end up reducing the speed of absolutely everything. Test on a real phone or at least with mobile emulation. Developing with a slow baseline ensures everyone - both on fast and slow setups - benefits. Click the icon in the top right to expand the image (opens in new tab) Checking your analytics to understand what devices your users are accessing your site with is a useful exercise. WebPageTest has a number of Moto G4 phones preconfigured under the Mobile profiles (opens in new tab). This is valuable in case you're unable to purchase your own set of median-class hardware for testing. It's really important to know your audience. Not every site needs to perform well on 2G on a low-end phone. That said, aiming for a high level of performance across the entire spectrum ensures that every potential user accessing your site has a chance to load it up fast. Next page: Top tips for coding faster, lighter JavaScript Thank you for reading 5 articles this month! Join now for unlimited access Enjoy your first month for just £1 / \$1 / €1 *Read 5 free articles per month without a subscription Join now for unlimited access Try first month for just £1 / \$1 / €1 There are so many blogs and sites publishing high quality CSS and JavaScript tutorials these days that it can be hard to keep track - and it's easy to miss an amazing tutorial completely. And so's our law of dictators that the one you do miss will be the one that could have saved you days of work on your latest project. So to help out we've rounded up some of the very best CSS and JavaScript tutorials from around the web, covering web design techniques old and new, how to use the latest tools and frameworks, and a series of projects you can sink your teeth into. They're all written by leading experts in the field, and many come with downloadable code you can play around with. Finally, we've grouped the tutorials into a series of categories to make it easier to find what you're looking for. Read all the tutorials on Creative Blog here For more on JavaScript, check out our guide to some of the best JavaScript frameworks. NOTE: most of these CSS and JavaScript tutorials are aimed at professional web designers. If you're a beginner, check out this article about web design training to help get you started. For the rest of us, though, on with the tutorials! Fundamentals of CSS How to structure your CSS (opens in new tab) We want you to learn from the best. So who better to explain their CSS tactics than front end developer Mike Byrne? His handy tips will really help to structure your CSS. Make your sites load faster (opens in new tab) Your website's visitors care whether or not it loads quickly. Tom Guillen explains what the price of a slow site can be and shows you how to make yours render faster To style an element with CSS, you need to be able to target it. Rich Clark shows you how to keep your markup slim and target elements in the DOM without resorting to extra presentational markup or JavaScript. How? By using CSS3 selectors... Decoupling HTML from CSS (opens in new tab) Working with HTML, CSS, and JavaScript can get a little messy. Jonathan Snook gives you a new insight into coding your CSS that will make the clean up a whole lot easier. Classes? Where we're going, we don't need classes! (opens in new tab) Classes, classes, classes everywhere. What if we don't need CSS classes at all? What if we stopped worrying about how many classes we're using and what we should be calling them and just finished with them once and for all? Heydon Pickering investigates. CSS techniques Absolute horizontal and vertical centering in CSS (opens in new tab) Stephen Shaw introduces a technique for perfect horizontal and vertical centering in CSS, at any width or height. The techniques works with percentage-based width/height, min-/max-width, images, position: fixed and even variable content heights. Creating different CSS3 box shadow effects (opens in new tab) In this tutorial we are going to be creating box shadow effects with just CSS. Below is an image created in photoshop of different box shadows effects. These used to be the only way of creating this effect but thanks to CSS3 we can now do all this with just CSS. Master the new CSS layout properties (opens in new tab) New CSS properties offer easy ways to lay out web pages. Thomas Lewis of Microsoft shows you through Grid Alignment, Flexible Box and Multi-column Layout. The problem of CSS form elements (opens in new tab) In this tutorial, you'll cover some of the CSS patterns used by web developers to tame the visual layout of form elements. CSS3 offers so many possibilities to create cool rollovers on website menus. Dan Voyce explains how he created the effect on Graphite Design's site. Master CSS pixels for Retina displays (opens in new tab) As screens get smaller and more detailed, web pages will have to change to cope. Sean B Palmer examines the past, and the future, of CSS resolution independence. Minimum paragraph widths in fluid layouts (opens in new tab) Incorporating images into your body text can often be a long and frustrating process. Take a look at this tutorial from Gustav Andersson, who has come up with techniques for all your text flow problems. How to take advantage of the CSS background-size property (opens in new tab) Front-end developer Stephanie (Sullivan) Revis, owner of W3Conversions, takes you through a variety of uses for the CSS3 background-sized property. Triangle with shadow (opens in new tab) Chris Coyier explores different ways to creating shadows behind triangles in CSS. How to set up a print style sheet (opens in new tab) Print styles are often forgotten in the age of responsive web design. The good news is that a print style sheet is actually very easy to craft: you can follow a couple of simple CSS techniques to create a good experience for readers and show them that you've gone the extra mile to deliver a better user experience, says Christian Kramer. Semantic CSS with intelligent selectors (opens in new tab) With the advent of object-oriented CSS (OOCSS), it has become fashionable to decouple presentation semantics from document semantics. As this tutorial on Smashing Magazine explains, by leveraging the underspecified meanings of classes, it's possible to manage one's document and the appearance of one's document as curiously separate concerns. Create amazing typography Introducing responsive web typography with FlowType.js (opens in new tab) FlowType.js allows a perfect character count per line at any screen width. This tutorial on Smashing explains how to use it. Textureise web type with CSS (opens in new tab) As newer CSS properties, such as text-shadow, gain traction, there's no limit to what can be done with web type. Trent Walton from Paravel goes a step further by texturising it. How to preserve vertical rhythm with CSS and jQuery (opens in new tab) Vertical rhythm is really important for type-based design approaches. Web developer Matthew Wilcox shows you the basics. Create a Letterpress effect with CSS Text-Shadow (opens in new tab) The Letterpress effect is fast becoming one of the most popular tools in web design. Jump on the bandwagon with Chris Spooner as he shows you the ins and outs with CSS Text-Shadow. The future of screen typography is in your hands (opens in new tab) Andreas Carlsson and Jaan Orvet discuss the way text is changing, thanks to the latest tablets and devices from the likes of Amazon and Apple. Here, they show you how to create and customise your own font file to keep up with the Jones. How to create a cool anaglyphic text effect with CSS (opens in new tab) If you didn't know already, anaglyphs are those 3D images, offsetting two of the red, blue and green channels. If you've ever wanted to make your own, now is the time as Chris Spooner shows you how. Handling typography for responsive design (opens in new tab) You've got your layout a lot to keep your user's attention and that's why a 360 degree image slider could be your ticket to success. Robert Pataki demonstrates how you can show it off using CSS and JavaScript. How to create a zoomable user interface with CSS3 (opens in new tab) In this tutorial, David DeSandro explains how CSS transforms can be used to create a zoomable user interface. He also dives into JavaScript to show you how you can manipulate the zoom. Master CSS animations Animated CSS effects with fallbacks (opens in new tab) New CSS3 modules enable cool effects, but what about browsers that don't support them? Opera's Chris Mills demonstrates a few examples - and styling alternatives via Modernizr. Getting CSS animations to trigger at the right time (opens in new tab) Karl Schellenberg demonstrates how to stagger full-site animations with CSS3 and JavaScript through page scrolling. A masterclass in CSS animations (opens in new tab) From the basics of animation keyframes to expert animation tips that will save you many a headache, Estelle Weyl, web developer and author of HTML5 and CSS3 For the Real World, takes you on a tour of all you need to know to get up and running with CSS3 animations. Chain CSS animations together with JavaScript (opens in new tab) CSS animation is set for widespread adoption. Peter Gasston shows how we can extend its capabilities by mixing and chaining with CSS and JavaScript events. How to create a clickable accordion with CSS animation (opens in new tab) Belgian interface designer and CSS trickster Benjamin de Cock tells you how to create a clickable accordion with the power of CSS3, whilst also discussing the cons of the technique. Page 2 In this tutorial you'll write a CSS class that will convert a coloured image to black and white. The grayscale image will be generated on the client side by the browser's CSS engine instead of using JavaScript or an image editor to upload two versions of the same picture. Opera's Chris Mills shows how object-fit and object-position in CSS3 can help to display media consistently throughout a website. How to get to grips with CSS3 multiple background images (opens in new tab) Keeping your HTML clean whilst still adding numerous separate images can be a bit of a headache. Freelance front-end designer Pricea Schmarow tackles the issue of multiple background images in CSS3. Fundamentals of JavaScript Understanding design patterns in JavaScript (opens in new tab) Solid design patterns are the basic building block for maintainable software applications. If you've ever participated in a technical interview, you've likely been asked about them. This tutorial by Tilo Mitra looks at a few patterns that you can start using today. Key principles of maintainable JavaScript (opens in new tab) JavaScript is a curious language. It's easy to write, but difficult to master. By the end of this tutorial by Jonathan Creamer, you'll be able to transform your spaghetti code into a five-course meal, full of readability, maintainable yumminess! Louis Lazaris introduces you to some pure JavaScript features that you can use today and that you might not have ever considered before. Introduction to JavaScript unit testing (opens in new tab) You probably know that testing is good, says Jörn Zaefferer, but the first hurdle to overcome when trying to write unit tests for client-side code is the lack of any actual units. JavaScript code is written for each page of a website or each module of an application and is closely intermixed with back-end logic and related HTML. Which JavaScript recipe is right for you? (opens in new tab) JavaScript has been called everything from great to awful to the assembly language of the web, but we all use it. A little confused by it all? Find out which recipe works for you with this tutorial. Build a relationship between CSS and JavaScript (opens in new tab) JavaScript is so powerful, so there are a lot of overlaps in capability between JavaScript and HTML (building document structure) and JavaScript and CSS (injecting style information). Learn how to build the relationship you need here. Write fast, memory-efficient JavaScript (opens in new tab) If you care about memory usage and performance, you need to know what's going on in your user's browser's JavaScript engine behind the scenes. Do it with this tutorial. Responsive web design: the basics Responsive web design: what it is and how to use it (opens in new tab) In the field of web design and development, we're quickly moving to the point of being unable to keep up with the endless new resolutions and devices, writes Kayla Knight. Should we just suffer the consequences of losing visitors from one device, for the benefit of pleasing visitors from another? Or is there another option...? Responsive web design: a visual guide (opens in new tab) These days, "one size fits all" is quickly becoming a dated concept. Luckily, with CSS media queries, we can now easily build responsive web designs that accommodate everything from your mobile phone to your massive desktop, as this video tutorial demonstrates. Brandmap on responsive web design (opens in new tab) Chris Coyier explains the very basics of what "responsive web design" has come to mean, with examples, related resources, relevant people, tips and tricks, and more. Build a responsive website Build a basic responsive site with CSS (opens in new tab) Responsive design is much misunderstood. Jason Michael lays to rest some myths, and then walks us through building a simple responsive website. Build a responsive site in a week: part 1 (opens in new tab) Interested in responsive web design but not sure how to get started? Don't fret, help is at hand! In a five-tutorial series, Paul Robert Lloyd talks you through the responsive design process, soup to nuts. Build a responsive site in a week: typography & grids: part 2 (opens in new tab) In the second part of this series, Paul Robert Lloyd tells us how to translate static page designs into adaptable, fluid websites. So let go of those pixels and learn to love proportions! Build a responsive site in a week: images and video: part 3 (opens in new tab) In the third part of this series, Paul Robert Lloyd looks at incorporating images and video into responsive layouts, and describes some of the problems in this area that still need solving. In the penultimate part of this responsive design series, Paul Robert Lloyd explains how media queries work, and describes a device-agnostic approach to breakpoints. Build a responsive site in a week: going further: part 5 (opens in new tab) In the final part of this responsive web design series, Paul Robert Lloyd explains how there is more to a responsive design than just flexible layouts, images and media queries. Create fluid layouts with HTML5 and CSS3 (opens in new tab) In this exclusive excerpt from Responsive Web Design with HTML5 and CSS3, Ben Frain explores how to convert pixel-based designs to their proportional equivalents. Design sites using the Responsive Grid System (opens in new tab) The Responsive Grid System isn't a framework or a boilerplate. But it does make creating responsive websites quick and easy. Graham Miller, its creator, explains how to use it. The purpose of this tutorial is to show you how turn a regular list menu into a dropdown menu on smaller display. The technique requires no JavaScript and uses clean and semantic HTML5 markup. The many ways to mobile Create a mobile website with jQuery Mobile (opens in new tab) Zak Ruvalcaba and Anne Boehm explain how to use jQuery Mobile to create a mobile website. Create a custom theme in jQuery Mobile (opens in new tab) We present an exclusive excerpt from jQuery Mobile Web Development Essentials, on the basics of theming and building and using a custom theme for your app. Getting started with PhoneGap (opens in new tab) In an excerpt from the PhoneGap Beginner's Guide, Nitobi/Adobe's Andrew Lunney shows you how to set up and build simple and effective apps for BlackBerry, Android, and iOS. Improving the mobile user experience Raising the bar on mobile (opens in new tab) Scott Jehl shows you how to decrease browser functions to make more room on the screen for your designs. Aaron Gustafson explains how to build a progressively-enhanced, CSS-based dropdown that works as part of a responsive design. How to improve user interface design for Android apps (opens in new tab) If you want your mobile app to stand out from the crowd, take a look at this tutorial from co-director of Bitmode Ltd, Richard Leggett. He'll show you how to style and theme your app to make it go the distance. Produce the perfect portfolio site Develop a one-of-a-kind CSS/JavaScript-based game portfolio (opens in new tab) A portfolio is a must-have for any designer or developer who wants to stake their claim on the web. With a bit of HTML, CSS and JavaScript, you can have a one-of-a-kind portfolio that capably represents you to potential clients. Awesome Customized fly-out menu with jQuery and CSS3 (opens in new tab) Mary Lou knows how to get the best out of your website menu. Whether it's for an online portfolio or just for fun, take a look at this tutorial which will add two great features to your menu. Create forms your users will love! Design a prettier web form with CSS3 (opens in new tab) Do you feel like your website needs a lift? Thanks to advanced CSS and JavaScript properties, you can now turn even the dullest of homepages into something beautiful. Matt Hedberg shows you how. Build a mobile-friendly form with email domain suggestion (opens in new tab) So, you're happy as Larry that you've finally converted your web design for mobile use. But what about those pesky forms your users just have to fill out? Jim Nelson shows you how to go above and beyond to make your users happy. Create an image editor! Build an image editor with EaseJS (opens in new tab) Maciej Sopylo shows you how to create a full-blown picture editor that will be on the same level as most desktop applications. Build a canvas image editor with Canvas (opens in new tab) This tutorial by Dan Wellman shows you how to rotate, resize, translate and even add subtle colour manipulation to your images. Advanced CSS An introduction to Object Orientated CSS (OOCSS) (opens in new tab) We can all agree that decent content creation reigns supreme when it comes to attracting those unique visitors. Here, Louis Lazaris introduces you to the often overlooked concept of object orientated content using the OOCSS framework. Diving into CSS Regions (opens in new tab) This tutorial covers the basics of CSS Regions, which allow us to flow content within various sections of the page. An introduction to the CSS Flexbox module (opens in new tab) CSS always seems to have a killer feature up its sleeve. Remember how media queries made responsive layouts possible and revolutionised front-end development? This tutorial talks about Flexbox, a module that's causing a similar change in the way we lay out web pages. Get started with Sass Get yourself preprocessing in just a few minutes (opens in new tab) There's nothing to be afraid about in this brave new world of preprocessing. In this video Chris Coyier walks you through a simple project that uses Jade and Sass. Refactoring CSS into SASS (opens in new tab) Handcrafting CSS from the start is a great move but more often than not it can become difficult to manage. Eugene Fedorenko explains how to overcome the hurdle and successfully redesign your style sheets. Improve your JavaScript technique Get started with jQuery Masonry (opens in new tab) Luke Shumard provides a crash-course in David DeSandro's Masonry, a jQuery plug-in that's ideal for both novice and intermediate web designers. Site performance is about two things, writes Zack Grossbart: how fast the page loads, and how fast the code it runs. Plenty of services make your website load faster, from minifiers to CDNs, but making it run faster is up to you. Grossbart explains how to go about it. Useful jQuery function demos for your projects (opens in new tab) Every aspiring web developer should know about the power of JavaScript and how it can be used effectively to enhance the ways in which we see and interact with web pages, writes Sam Deering. Fortunately, to help us be more productive we can use the power of JavaScript Libraries. A quick look into the math of animations with JavaScript (opens in new tab) There is a lot of math in the visual things we do, writes Christian Heilmann, even if we don't realise it. If you want to make something look natural and move naturally, you need to add a bit of physics and rounding to it. JS Bin: Built For Sharing, Education And Real-Time Rendering (opens in new tab) JS Bin is one of the very first public paste bins with the output rendered live in your browser and available to share and edit with the completed output. It's free to use all its features and it's available on Github. Remy Sharp explains how to use it. Get started with WebRTC (opens in new tab) Andi Smith demonstrates how to use Web Real Time Communication to control webcam and microphone streams using JavaScript APIs. How to create web animations with Paper.js (opens in new tab) For some of us, animation can be a daunting prospect. It can however, improve your site to its fullest potential (and it looks cool too!). Zack Grossbart gives you his tips on how to develop a range of animations from the neat to the very, very messy. 15 reasons why your projects should use the Dojo Toolkit (opens in new tab) The most powerful and underutilised JavaScript utility is one and the same: the Dojo Toolkit. David Walsh covers many of the most powerful features of the Dojo Toolkit, and in doing so makes the case for why you should use it for your next project. Journey through the JavaScript MVC jungle (opens in new tab) There are modern JavaScript frameworks that can assist with bringing structure and organization to our projects. Ady Osmani explains how to get started with them. Fantastic jQuery projects How to create an interactive street view with jQuery (opens in new tab) Severin Klaus explains how Hinderling Volkart created an innovative method of scrolling through video for its 360 degree Langstrasse website. Impressed? Well, this tutorial will show you just how you can do it for your very own site. How to create a cute pop-up bar with HTML5, CSS and jQuery (opens in new tab) Similar to a 'hellobar', Eric Hoffman shows you how to create a cute pop-up bar and use it to your advantage. It has only been tested in Chrome and Safari, so be aware it may not work on other browsers! Build a colourful clock with CSS and jQuery (opens in new tab) Countdown clocks can give your website the edge it needs to stand out. Martin Angelov walks you through the project. PrefixFree: Break free from CSS prefix hell (opens in new tab) Using CSS regularly can often come with its frustrations. Fear not as Lea Verou, well-known for her experiments with CSS and JavaScript, presents her most recent free tool, PrefixFree. Banish the prefix blues! A new front-end methodology: BEM (opens in new tab) Vavara Stepanova investigates BEM ('Block Element Modifier'), a front-end modifier that's created a new way of thinking when it comes to web interfaces. Use Gridpak to roll your own responsive grid (opens in new tab) Another free tool to make your design life that little bit easier. Gridpak comes from Erskine Design and enables you to quickly generate your own responsive grid. However, it can be a little tricky so here, Joshua Jackson gives you an extensive introduction. Cool HTML5 projects Build a cross-platform HTML5 game (opens in new tab) Ibon Tolosana and Iker Jamarado Zugaza show you how to get to grips with cross-platform HTML5 game development using Canvas. Create a Pong game (opens in new tab) Classic games such as Pong will never grow old with your users. That's why Carlos Yanex has created this simple tutorial on how to develop your very own version using HTML5, CSS and JavaScript. Build an MP3 player (opens in new tab) A little music to the ears can often inject some much-needed personality into your website. Here, James Tyrer shows you how to create your own MP3 player. Create a hangman game (opens in new tab) Ah, the never-ending game of Hangman. We all love to play it and so will your users. James Tyrer shows you how using HTML buttons for the input and JavaScript to provide the game logic. Save the day with Scoped CSS (opens in new tab) One little known feature of HTML5 is Scoped CSS. It's an attribute for style blocks that may change the way we tackle certain styling challenges in the future, as Chris Coyier explains here. And finally... Calenders are often an overlooked yet important aspect of web design. Andrew Burgess steps in to show you how to build a quick but effective widget using CSS and JavaScript. Adding real-time functionality to an app can result in a more interactive and engaging user experience. But setting up and maintaining the server-side real-time components can be tricky. Phil Leggetter offers a solution using HTML5, CSS and JavaScript. Build a spiffy quiz engine (opens in new tab) Quizzes can often entice more user input, which begs the question: why haven't you got one? Here, Siddharth gives you a quick preview into how to create your own mini quiz version. Building a simple CSS selector engine (opens in new tab) When it comes to building a selector, we often use both CSS and JavaScript libraries and selectors to get the job done. Andrew Burgess strives to simplify the process with this quick tutorial. Radio buttons with 2-Way Exclusivity (opens in new tab) More and more websites are in need of a little UI upgrade and radio buttons aren't a bad way to go about it. Chris Coyier shows you how to develop your own grid of radio buttons in a few simple steps. Have you found an online tutorial that helped you in your CSS and JavaScript projects? Share the link in the comments below!

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