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Bootstrap 3 manual

Technical Support Engineer || Freelance Web DevBootstrap is a powerful front-end library, that gives you the power of quick design and responsive mobile-first site layout. It lays on top of the 12 grid system and it has extensive pre-built components. If you don't know much about it, you can check out my article about V4 and with some simple examples, you'll have a nice foundation.In this article, I'll just sweep through what has changed in V5 and talk about their importance. Bootstrap 5 is an alpha release now and we are waiting for the stable version. You can check the issues and pull requests on their Github repository.List of ContentjQuery removal and switching into JavaScriptResponsive font sizesDrop Internet Explorer support and CSS custom propertiesChange of Unit MeasurementEnhanced grid systemClass UpdatesNew SVG Icon LibraryUtilities APIImproved DocjQuery Removal and Switching into JavaScriptjQuery is a library that offers an abstraction layer for classic web scripting. The extensible nature of it allows the developer to reach an element in a document without writing a lot of JavaScript. You can modify the elements, respond to a user's interaction, or retrieve some information from a server without refreshing the page with AJAX and the list goes on.Even though jQuery has incredible helpers, it has lost its popularity nowadays because of its load time and rise of other frameworks/libraries like React, Angular, and Vue. These modern tools use a virtual DOM to interact with the real DOM and this way is much faster than the sites that use old jQuery So, for those reasons, Bootstrap left jQuery and start using only Vanilla JavaScript. Now you can use efficient Vanilla JavaScript without worrying about the addition of non-essential functions and the addition of global objects which jQuery adds.Responsive Font SizesDesigning a website for different platforms and viewports can be challenging. To overcome this problem developers need to use media queries that allow the page to look different on different viewports.RFS is a unit resizing engine. It automatically calculates the appropriate font size based on the screen size. It can be used for any CSS property with units. It was in V4 already but now it's enabled by default in V5.Drop Internet Explorer support and CSS custom propertiesIn 1995, Microsoft released Internet Explorer and in those days it was a popular browser due to its support for CSS and Java applets. However, nowadays it's already lost its popularity and became a nightmare to designers since it does not support modern JavaScript standards. To use IE you need to compile your JavaScript code into ES5 which increases the size of your project. Even worse, you can not use modern CSS properties and this limits your ability to design your page properly.In Bootstrap 5, the team decided to drop the support for IE and focus more on new classes and CSS custom properties. This enables the developers to concentrate on more robust design without worrying about old browser support and increased project sizes.In V4 there were only root variables for colors and fonts. Now the team has added more components and layout options. You can apply the striped, hoverable, and active style much easier, and now they are working on utilizing powers of Sass and CSS for more flexible systems. For more information click here and go to CSS Custom Properties.Change of Unit MeasurementCSS offers different types of unit measurements such as px, rem, em, %, vw, and vh. The px is widely used and known as an absolute measurement. The px measurement does not change with different screen sizes and it is not a suitable choice for responsive web design.Bootstrap has been using the px measurement for its gutter width and now with V5 it has been changed into rem or "root em". The rem calculates the font size of the root element and arranges the size depending on that root element. (For most browsers it is 16px).Enhanced Grid SystemIn V4 we already have a great 12 column grid system. Now it is time to say hello to the "xxl" grid which is for screens more than 1400px wide. Gutter classes have been replaced with 'g-*' utilities much like margin/padding utilities. You can use 'gx-*' or 'gy-*' to have space between your columns and rows. To learn more please look here. In addition to those, columns are no longer 'position: relative' by default. To understand more I found this pull request to be very helpful.Class Updateln V4 there are more than 1,500 CSS classes. Some CSS classes are no longer available in V5 and there are some additions to the classes as well.Some of the CSS classes removed from Bootstrap are:* form-row* form-inline* list-inline* card-deckSome CSS classes added to Bootstrap are:* g-*, gx-*, gy-* rows-cols-autoNew SVG Icon LibraryIn Bootstrap 4, there was no library for icons so developers needed to find a free icon provider like Font Awesome or use their own custom icons.In Bootstrap 5, there is a brand new SVG icon library. Before the stable version release, you can use this library and add icons to your project. You can visit this page to learn more.Utilities APIIn V4, you can control and customize the page with the global 'senable-*' classes, and in V5 it's carried forward with an API based approach. The developers created a language and syntax in Sass for us to create our own utilities. You can even modify or remove utilities with this API based approach. According to their blog site:" We think this will be a game-changer for those who build on Bootstrap via our source files, and if you haven't built a Bootstrap-powered project that way yet, your mind will be blown". This makes me excited because I've rarely used Bootstrap source files and now I am thinking of using them more often after seeing the stable release.Improved DocTheir documentation static site generator has switched from Jekyll to Hugo. As their saying, Jekyll requires Ruby to be installed, and site generation was slow, so they decided to change into Hugo.While the static site generator change is important there is something that is more important. They now have a 'Customize Doc' which extends on V4's Theming page with more content and code snippets for building on top of Bootstrap's source Sass files. They even have a starter npm project for us to get started easier and faster.ConclusionOne frustrating issue for web developers is doing some repeated tasks for all of their projects. It can be like reinventing the wheel every time you start a project. Bootstrap can be helpful for these kinds of duties and also just to have great responsive layouts.Bootstrap 4 is already in use and very suitable for these kinds of tasks. With the update to V5, I believe it will be even more attractive and get more attention from the developer community.If you want to see all the changes in a list, check them out here. For more information, you can view their blog. I found this article to be very useful and contains information about the changes in Card components and NavBar optimization.When a stable version is released, hope to write again with more context.This article was previously published behind a payroll.Join Hacker Noon Create your free account to unlock your custom reading experience. October 20, 2017 5 min read Opinions expressed by Entrepreneur contributors are their own. You're reading Entrepreneur India, an international franchise of Entrepreneur Media. I'm often asked the same question again and again whenever I attend a seminar. And this million-dollar question is 'how can I get startup funding'? To tell you the truth, this frequently asked question doesn't irk me at all. But what really baffles me is the answer of the participants when I ask them which stage of business they are in. In most cases, or I'd say 99.9% cases, they haven't started yet.You have a dream and you want to turn it into the reality, isn't it? Do you really need VC funding to get started? No, you don't. If you're really passionate about your dream, why don't you bootstrap your dream? This is how I built all my businesses. I can do it, so can you. Take up a full-time job and fund your startup; do a part-time job and fund your startup; spend your saving as I did. But start your journey. Don't wait for startup funding. Though it seems like the path to success to have startup funding, bootstrapping your dream offers many advantages, such as maintaining control of your dream, realizing your strengths, and striving to stay profitable. "When you bootstrap, you are forced to get good fast. As humans, we prefer to put in as much effort as we need to, but whether we recognize it or not, we all have extra gears," says Ryan Smith on Harvard Business Review.Also, bootstrapping gives investors an opportunity to understand that you are serious about your dream. Here are four ways that have helped me not only sustain but also stay profitable without startup funding.1- Make Every Penny Count The first and foremost rule for successful bootstrapping is to make every penny count. You need to be a good accountant and keep a vigil on every penny you spend. That being said, you don't have to have a big office initially, you don't have to throw lavish product-launch parties, and hire the biggest PR firm in your town.Google started in a garage, and Facebook started from Harvard dorm. Do you really have to start big to make it big? Whether you have got big startup funding or you are bootstrapping, you need to reduce cost. This is the only way to make a sustainable, profitable startup. 2- Keep a Small Team and Hire More Interns If you want to bootstrap your dream, never go with the classical portrait of the successful CEO - big office and big team. Having a big team is expensive. More people means much more money you need to spend. My friend, hiring too fast can be inimical. So, you should keep your team small initially.I would suggest that you should hire more interns than regular employees. Hiring interns not only saves you a boatload of money but also bring a fresh perspective in your startup.Take passionate interns on board, which will help you discover future employees.3- Use Social Networks to Reach Your Audience No matter how unique your product is, you will have to reach your target audience to promote it. People are not going to buy your product or service just because you are passionate about it. They need to be convinced that what you offer is the best solution for their problems. And the only way to do so is to reach them and educate them. Needless to say, you need a big startup funding if you want to target your audience with traditional marketing channels, such as TV, radio, and print media. What's the solution then?Use social media to target your audience. Not only you can save tons of money but also you can reach a wide audience with social media.4- OutsourceAt the initial stage of your startup, you don't have to hire employees for each and every process. You should outsource tasks to keep the operating cost minimum. Outsourcing offers many benefits, including an access to skilled workers, more time focus on core business activities, and reduced operating cost.However, you should approach outsourcing the right way. Else, you will run a risk of losing money. Outsourcing tasks just because your competitor is doing is not at all a smart decision. You should decide what you should outsource based on the nature of your business. ConclusionBuilding a profitable, sustainable startup without startup funding is not an easy task. To run a successful startup, you should follow certain steps to keep going smoothly.If you keep a small team and take more interns on board, employ the power of social media to target your audience, outsource unimportant work to reduce operating cost, make every penny counts, there is no reason why you wouldn't be able to bootstrap your dream.What about you? Do you want to share any tip for bootstrapping? Do leave it in the comment section. I'd love to hear about it. Lisa Nguyen is the co-founder of Baubles + Soles, a line of interchangeable footwear for kids. After all five 'Shark Tank' judges rejected her company's pitch, Nguyen still walked away with a deal. Here's how she did it. Whose money are you more careful with: your own or someone else's? When you're deciding whether to bootstrap or seek funding, you may want to consider which will be better for your bottom line. And not all founders agree on which option is wiser. For Mike Wood, founder of LeapFrog Enterprises Inc. and Smarty Ants Inc., having investors means being kept in check. In a recent interview with The Wall Street Journal, he said: "I think it's a good idea to have independent people with money in the company. It's easy as a founder to get so emotionally involved in things. When you fund yourself, you don't have to prioritize. If it's other people's money you're spending, you tell them what you're doing, they cross examine and have ideas. The pressure is a good thing." Jake Lodwick, co-founder of Vimeo, disagrees. Earlier this year, he told Inc. that having his firm acquired by Connected Ventures was "pretty much a nightmare." "Whereas we once made decisions ourselves, now we were required to go to weekly meetings, then two meetings a week, then three meetings a week. Innovation slowed down on our existing products, but we also stopped launching new stuff. They fired me a week or two before I was planning to quit." And according to Alexa von Tobel, founder and CEO of LearnVest, a bootstrapping mentality is the best way to become fiscally responsible. "When you're spending your own money, it's really different than when you are spending someone else's money. And I, to this day, spend every single dollar like it is out last dollar or like it is my dollar. I think it helps you have such a tremendous focus and that never should go away. Even when you have almost 150 employees and you raise \$25 million and you are generating tremendous revenue to when we maybe get bigger and go public. So the take away there is, think of the dollars as your own dollars, because all of a sudden it starts to change." Do you feel it's smart for an entrepreneur to take funding, or is it wiser to bootstrap--and budget--instead? Share your take with us in the comment section below. Read any tech publication, raising a round appears to be the only way to grow a business. But think again (and not because of stock market uncertainty or the length of time it takes to close a round).Yes, there are good reasons why some startups should put working day-to-day on growing their business aside and spend the time instead looking for outside investment, including: gaining the financial and other operational resources they need to move forward; to increase their financial stability, focus (plus peace of mind) in the short-term if they've been growing on revenue, founders' savings and credit cards; and to quickly accelerate their growth in order to capture a massive market. Heck, getting a solid investor is likely to give entrepreneurs a huge ego boost too and not surprisingly, it takes a lot of ego to start a company.However, seeking out an investor is not always the right approach to funding a startup (especially at the earliest stages of a venture). Unicorn startup Medallia was bootstrapped by its founders for 10 years before they sought venture capital investment. Other companies, like GoPro and online dating platform, Plenty of Fish, have also achieved enormous success by bootstrapping before rushing to Sand Hill Road with a pitchdeck. Bootstrapping means the founders hustled sales and used their own funds - and in the process, made their companies profitable - without external funding, reaping rewards beyond financial, that are, more often than not, exclusive to bootstrapped companies.Entrepreneur, Agnieszka Wilk is a strong believer in bootstrapping. Agnieszka believes that finding the right team, sharing common goals--more than dreams of venture capital- results in the best chance of creating a successful company. She started planning Decorilla, an online interior design platform that helps clients create curated 3D and VR spaces, on a simple Word document. Sharing her vision from there, the Decorilla team fell into place. She met her technical co-founder through a friend who graduated from MIT. She clicked with an interior designer at a networking event in Manhattan who got excited about the idea and immediately joined the team.With a very diverse skill set and strong common believe in not only the product, but also the type of company they are building, Agnieszka and her team have been able to quickly launch Decorilla - and bring it to profitability.According to Agnieszka and the Decorilla team, here are five great reasons to stop focusing on fundraising and to aggressively bootstrap your startup:1. It's easier to keep your culture and valuesYou can't buy culture or values, and when you have control of your company you can ensure that those things are built the way they want you want, to last. Bootstrappers attract other bootstrappers and that creates a culture of people who are passionate, patient, and love running businesses they are proud of. They have the freedom to experiment without accountability to anyone else.GoPro, is a company well-known for being bootstrapped (at age 26, the founder, Nick Woodman, moved back in with his parents and sold bead and shell belts out of his VW van in California). GoPro grew slowly over 10 years, and as Woodman noted in an Inc.com interview on his "overnight" success:"I think a challenge is obviously that you don't have all the resources that you would have if you went out and got an investment. Maybe you can't grow as quickly as you'd like to, but an advantage is that you only have yourself to answer to. You can style your business and your approach exactly the way you want to. You don't have the pressure of outside investors that you're beholden to who want to weigh in on how you're building your business. I think that's really important and beneficial to a business in its early stages."2. You're forced to focus on cash flowWhen bootstrapped entrepreneurs don't have a false security cushion of investors' money to fall back on, they need to prioritize making money themselves. Bootstrapping pressures entrepreneurs to perform; if they don't reach their sales targets, the company will not grow. Doesn't matter how many times you tell an entrepreneur to spend investor money as if it were their own, hard-earned cash, it rarely happen. Bootstrapped businesses are forced to count each dollar they bring in and put out, staying in complete control of their money and keeping their companies financially healthy.According to a study by CB Insights, 29 percent of startups failed because they ran out of cash, and how to spend money was a frequent conundrum for the startups analyzed post-mortem.3. You hold yourself accountableBootstrapping a startup has entrepreneurs focusing on metrics and milestones instead of focusing on getting sky-high valuations because they only have themselves to hold accountable. As Agnieszka notes, although having a high valuation doesn't sound like the worst thing for a startup (it is a bit of an ego boost after-all), it could seriously harm a company. A down round of funding after poor spending choices made with initial investment rounds will not turn out well for the entrepreneur.4. You're in control for the long-runEntrepreneurs who bootstrap their startups know their startups inside out, and know they are able to sustain themselves without outside financial help. This leads to confident decision-making (heck, they understand their company's best interests better than anyone) when it comes to seeking outside funding or other resources (expertise, introductions, skills or the next CEO) a company needs.5. You increase your leverage for future fundraisingBootstrapped businesses start small, and generate value at a manageable pace to become profitable. So, when a company does reach a tipping point that it makes sense to approach investors to get a financial push, the investment is pretty attractive. There's proof that the market need is there, the business model works and the founding team is the right team to take the opportunity forward.Agnieszka points out the obvious (and perhaps greatest benefit of bootstrapping), when an entrepreneur is successful in a market on their own, it's easier to say no to outside investment. Launched in 2001, Medallia was in the enviable position of being pitched by select VCs (the startup closed a \$35 million Series A in 2012) and had the more enviable ability to be choosy as to which firm to work with (according to Crunchbase, Sequoia is their outside funding source of choice). Yes, that's right--a startup can put themselves in the position to say no. All money is not the same. By bootstrapping, an entrepreneur can remain in control to select not only the right terms but also secure the right investors.

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