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Explore our latest gallery of EditorsPicks.Browse Editors' FavoritesBy Amy Cowen on August 16, 2019 9:00 AM Using a breadboard is an important "next step" in exploring circuits and electronics STEM projects. Try one of these Ten Science Buddies projects to get to know your breadboard and start building circuits with confidence. Students who are just getting started exploring electronics often begin with basic circuits in which batteries are connected directly to motors or LEDs (like the Bristolbot robot) or connected with conductive materials (like paper clips or electric playground). These beginner projects are fun and easy and help students learn more about series and parallel circuits (and short circuits!), but curious students will quickly move on and be ready for circuits that involve a breadboard. Learn About BreadboardsA breadboard is a plastic board with holes arranged in columns and rows. Today's boards are typically solderless, which means you can push the pins of components directly into holes and then pull them back out, as needed. With a single breadboard, you can build and rebuild circuits as often as you wish. This makes a breadboard a great way for students to explore electronics because they can move components around when designing, changing, or troubleshooting their circuits. (Placing something in the wrong hole accidentally is a common problem, so being able to easily remove and reposition an element while troubleshooting is a plus!) The arrangement of columns and rows on a breadboard is key to how the board works in terms of connecting the circuit. Along the sides of the breadboard are the bus strips (or rails). The bus strips supply electrical power to the circuit when you connect them to a battery pack or other external power supply. The How to Use a Breadboard video from Science Buddies provides an excellent overview of how a breadboard works. The video was designed for students and educators who are using a breadboard for the first time, but the video also addresses technical questions experienced users and hobbyists may also have. A full companion How to Use a Breadboard for Electronics and Circuits resource is also available to help answer student questions about different types of breadboards, how they are labeled, how the columns and rows work, and more. 10 Breadboard Electronics Projects to Try! With a few electronics parts and a small breadboard, students can explore a range of different electronics projects and learn more about how circuits work. These projects can be the basis of a school science project or just fun as a home exploration. For educators, breadboard projects work well with individual students or in small groups both in the classroom and in out-of-school settings. The following ten projects are all good intermediate electronics projects that use a breadboard: Share Your Science Buddies Story! Have you used a science project, STEM activity, or Lesson Plan from Science Buddies in your class or program? We would love to hear your story! Email us at scibuddy@sciencebuddies.org and tell us how you use Science Buddies with students. Breadboards! A simple way to take circuits and electronics projects to the next level! Categories: Science Projects Teacher Resources Sign up for our weekly newsletter to stay up to date on new STEM learning resources, tips, and more! Sign Up Breadboards simplify electronic circuits, giving enthusiasts and professionals the tools they need to create prototypes and test circuits easily. But how does a breadboard work? Let's look at the inside of a breadboard and build our own basic circuit in the process. To learn how a breadboard works, you'll need to understand its parts, what they do, and how the connections work inside. So, let's dive in so that you can figure out how to use a breadboard all by yourself. The outer appearance of an electronics breadboard can be a little confusing at first. The small connector holes at the top of a breadboard come in two different varieties: power rails and terminals. Two power rails run up each side of the breadboard as columns, one for positive and one for negative, and each point along these columns is connected. Terminals are a little different. Rather than running up the breadboard as columns, they run across it as rows. There is usually a gap in the middle of these rows that aren't connected, effectively doubling the number of available terminal rails. How to Use a Breadboard's Power Rails As these names suggest, power rails are generally used to connect the breadboard to a power supply. This can be a battery, USB cable, or any other power supply suitable for the components you are working with. Power rails are easy to use, but they come with some limitations. As the whole power rail is connected, most breadboards can only use two separate power supplies, creating a challenge for complex projects. Therefore, it's best to stick to a single power supply for the first breadboard project you start on. This means that you only have to worry about two connections. Breadboards can host complex circuits with loads of components, but learning with a simple circuit is easier, especially for beginners. We've already shown you how to build a simple circuit with a potentiometer controlling the brightness of an LED without a breadboard, providing a good reference point for our breadboard. Insert each of the LED's legs into holes in the I terminal column to ensure they are not connected. Follow this by inserting each of the potentiometer's legs into holes on the D column. Next, it's time to add a resistor with one leg on the F terminal column and the other on the E terminal column (connected to the potentiometer's middle leg). Attach a jumper cable between the resistor and the positive leg of the LED. As the final connection to make before adding the battery, attach a jumper cable between the potentiometer's negative leg and the LED's negative leg. The potentiometer can be connected directly to the power rails. Attach the positive and negative legs to the positive and negative rails respectively, with jumper cables to make the connection. You can attach the battery in the same fashion, as long as you use the same power rails that were used for the potentiometer. Breadboards provide a simple way to create prototype circuits and learn more about electronics. Now that you've learned how a breadboard works, you can get started with your breadboard. Feel free to read more in our comprehensive guide to ensure you have all the necessary information. My workflow finally makes sense, and it's all thanks to Obsidian. If you suspect someone is tracking your keystrokes, it's time to take action. There's no need to throw away your old hard drives. Time to give your GPU some breathing room. Know the signs of a virus before you become another victim. Just updated to Windows 11? Do these things next. Say goodbye to WhatsApp Web on iPad as Meta's native app arrives on the tablet. Microsoft's most basic app gets a side of AI. Why not brush up your skills and make sure you know how to spot phishing scams. I'm genuinely amazed at how much entertainment you can find on this legendary website. Make your audiobooks unforgettable with active listening. Bored of the same playlists on repeat? Spotify might just have something new. It only takes a moment to make your files much more secure. Meta AI is great, but it isn't without issues. A few simple steps have stopped my burnout symptoms and allowed me to be more productive. 2:48 This post is sponsored by TCL CSOT. You may have to part ways with Windows 10, but don't surrender your PC just yet. Everyone has that day when they realize their beloved tech is just no longer worth using. Simple tweaks have made a huge difference to my productivity, and they can for you too. Your TV speakers might not be hopeless! Try the DeX competitor we hoped for, but it could still work. To Do: Forget Microsoft To Do ever happened. After all, AI DJ's got taste, but so do you. Airbnb now offers more than just home rentals. It's a simple tweak that makes a big difference. Separate the smart TV wheat from the chaff and go home with something you'll love. Your childhood deserves more than a blurry JPEG. Your next Audible audiobook might be read by AI. Say goodbye to Alt-Tabbing like a maniac. Open-plan does have its challenges, but you can still pick an amazing soundbar that will fill your space. Sometimes, it's okay to be a buzzkill. This article is sponsored by ECOVACS. Millions of Steam accounts just dropped on the wrong leaderboard. Time to start taking your BIOS updates seriously. Computer, enhance everything. Page 7 You can play with an adorable retro friend, check a sports score, and more. These more years of support, but is it really worth it? The right system isn't the flashiest. It's the one you can actually use. The Photos app has plenty of tricks up its sleeve. How does paying for a subscription to avoid ads, and still seeing ads, sound to you? I switched to YouTube Music despite being a Spotify user for years. Changing your smart TV DNS settings is a simple way to make your streams much smoother. It sounds smart, but nobody talks like this. Save yourself some steps along the way. Buying a car online doesn't have to be a scam-filled test of your sanity. Specs don't tell the entire story. Keyloggers can steal any information you type into your computer and use it against you. Google Search isn't a scratch on what it once was. Keep these tips and never be fooled by a post again. They might not seem that harmful, but they are. The retro cam app that nails both vide and usability. Copilot can do plenty of things that ChatGPT can't. Turns out, Notion really is an all-in-one workspace. Your downloaded file could be malwarebut there are some easy ways to check. TikTok's popularity means it's crawling with scammers waiting to infect your devices. Page 8 I've been watching YouTube in DVD quality for over a year. Tired of reading your notes? NotebookLM will soon let you watch them instead. The Windows 25 Mod is a great concept on paper, but I'm not convinced it's the right option for most Windows users. The pet pharmacy just moved to your browser. Google Sheets now has one trick that Excel doesn't. OpenAI has so many AI models, it would be rude not to give them all a try. Don't settle for Spotify. Better AI playlist generators exist. You don't have to pay more for your internet to feel faster. Say goodbye to your trusty old router. It's not just Proton that's getting cheaper. Microsoft forgot the good stuff. Tired of your new Windows PC feeling so slow? Try debating it. Your data might be on the dark web. Mine was. Is someone secretly tracking your laptop? Here's how to tell. Time saved, stress gone. All before 9 AM. I always delete these apps, and my TV runs better for it. Your travel screenshots can now become free plans, thanks to Google Maps and Gemini. It's just better for everyday people. Samsung finally puts its wallet where its mouth is. Be prepared to be overwhelmed. Page 9 Good on paper, but there are downsides. Stop asking AI for ideas. Make it argue with you. The internet is a dangerous place, but you can make it safer with these security apps. Are you really getting a bargain? Netflix debuts a more intuitive and responsive TV experience designed to make it easier to find stuff to watch. No more wasting time on clickable thumbnails. Google is redefining online search with AI Mode. Copilot still has a long way to go before it can truly compete with the best. Its long overdue, but I'm glad I finally have a way to check out the best podcasts at a glance. New tab, who dis? Changing back to Spotify was the confirmation I needed that Apple Music is better. Your wish is Windows' command. Thanks to a recent App Store change, the process is significantly easier. Double could spell trouble when using more than one VPN. You should strive to stay in control of what data companies have on you. Hopefully it's a temporary glitch and not a horrendous UI update. If you haven't written your IMEI down, don't worry; there are plenty of ways to find it. It's easy to make space when your primary storage drive is full. AI at a price you can say yes to. These security strategies can keep your data safe without requiring technical expertise. Page 10 Make room for more without giving up your favorite apps A simple, free system to keep every thought within reach in a document. Your widgets are about to get a serious upgrade. Even as a subscriber, I didn't realize how many features YouTube Music Premium was hiding. Enjoy full control without bloat. Oppo finally convinced me. No more procrastination. No more wasted time. Your Skype history on the clock. Grab it before its gone. Your first cut doesn't need to be on CapCut. Almost there. Microsoft. Small additions, major upgrades. Motivate and challenge yourself. There's more to your Samsung camera than filters. This isn't the time to be trivial. Sucking with the free version will make your conversations worse. Passkeys are the future. OpenAI G3 may have a greater cost to you privacy than you originally thought. Turn your ideas into a complete presentation in less time than PowerPoint. Google Search now chats back with AI Mode. Page 11 Make Windows easier to use by enabling these features. These router settings made my 4K streams smoother. Don't wait to find out if your password is compromised the hard way; use these tools and be proactive. 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Think that extension is legit? Think again. Groks finally got crayons. Finally, your AI art obsession has a home. Feels familiar? That's because Apple did it first. I've been waiting for this update for a long time! Page 18 If you're still using one of these versions, it's time to move on. If you're experiencing incredibly slow internet speeds, there are a few ways to check if your ISP is throttling your connection. Google.com is about to become more important than ever, even as the importance of search engines wanes. For most folks, losing access to a Google Account would be a devastating experience. The world doesn't need another social network, even if it has a great image generator. These iPhone navigation tricks make everyday tasks feel effortless. You can still use your smart TV offline, provided you're prepped in advance. Good luck finding a small 4K monitor on the market today. Doing one thing at a time is underrated. The AI button nobody asked for but everyone got. 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