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Scientists for the first time have edited genes in human embryos to repair a common and severe disease-causing mutation, which produces seemingly healthy embryos, according to a study published on Wednesday. In breakthrough, scientists edit a dangerous mutation from genes in human embryos | New York TimesMelissa KirschEditor-in-Chief, Lifehacker A couple of years ago, a strange thing started to happen to your PC. Perhaps it was spurred by the shiny, high-tech cases that Apple computers submitted, or by the strange, stylish boxes that PC manufacturers like Dell, Gateway and HP began to call cutting-edge designs. Maybe someone was inspired by the twisted paint jobs you can find at any custom car show. But for whatever reason, PC owners (and some Mac owners) began to customize their cases. Over time, the hobby picked up the name modding, and the people who modded their cases picked up the title modders. Not to place too fine a point on it, but modders mod their PCs. Sometimes there is an inlaid wooden box that blends with the décor of an exclusive office. More often than not, modding is an exercise in geek excess. For a perfect example of a case-mod craving gone out of control, see what ExtremeTech editors did in Geeks Just Want to Have Fun After They Were Inspired by EverGlide Giganta Ray Mouse Pad.The one fundamental rule of modding: Your imagination should be the only limit to what you can do with your PC's house. Some modders airbrush incredible design on a basic box, and everything you've seen on a hot rod or Harley - from flames to skulls to the American flag - has been made into the case of a PC. One of the most popular mods, so popular you can buy kits to make it easier, involves cutting a window into the case and installing a plastic window that exposes intricately laid out innards, cables, short and water cooling pipes softly illuminated by hidden lamps. Many modders start easily. Then, as bug bites, they acquire skills that would be useful in any custom car shop, from wiring to welding to prepping a case for a mirror-smooth paint job. These days, classic mods such as glowing fans, cold cathode light sets and case-windows have become cheap and simple, boxed up with instructions at your local computer store for less than \$10. They're a great place to start. G4TechTV Yoshi (a former colleague of mine during my stint at TechTV) is a modder worth mentioning. If you haven't seen it, check out Yoshi's Boxx, a fully tricked gaming PC that also packs an Atari 2600, Nintendo Entertainment System, Microsoft Xbox, Nintendo GameCube and Sony Playstation 2. In a word: Wow! And then there are the really over-the-top mods that look like they were built by model makers from Hollywood in their off hours. A nice example is called Matrix Rebirth 8.0. I can't believe The Matrix meets a PC inside. You can find some basic mods on the stand of your local computer store, from window sets to fans that have LED lights. At about \$10, basic mod kits are an excellent place to start. Easier yet, start with a case design that you like, whether it's a shiny aluminum wonder or a plastic case that strongly resembles Tux, the Linux penguin. So go for broke; the crazier (or more obsessive) the better. Some modders will spend hours and hours getting their case right. Check out ExtremeTech's Crazy Custom Case Mod Contest (Make sure you check out the 11th-hour entries in Meet the Stragglers.) And have fun! What do you do with the boring, beige computer that sits under your desk? Why not tear it apart, chop up the case, put in a window, light up in the internal, add some fans, overclock it and make it a wonderful piece of machines that can take a proud place at the top of your desk, where people can see and admire it? That's exactly what happens in the world of data modding, a once-underground realm that is gradually moving into the mainstream. Modding, essentially, takes a computer and makes it more impressive. Although simple upgrade can be considered modding, the term is used to reference pushing your PC to performance limits by overclocking the CPU, graphics card and other components. It also means adding the necessary cooling to keep the overclocked system from frying its transistors, and visually improving the case and peripherals by adding or changing lights, adding windows, painting them and otherwise adding flair. Modders is a wild breed and will do everything from cutting simple shapes out of standard PC cases to building whole, themed cases of their own, such as motorcycle PC or a glowing PC. Geeks just want to have fun and they'll go to extremes to have it. Why Mod? When I invite the uninitiated to the world of modding over to my computer room and showing them, say, a water-cooled Pentium 4 system with a large window, four fans and ultraviolet lighting inside, the first question is almost always: why? A method of MaturesSIt started with wanting to get more out of our systems than the average web surfer. With the explosion of the overclocking phenomenon (cranking up components such as CPUs, GPUs, memory and other equipment so that they run faster than they are specified to operate), the gears jumped to get started with the PC's components. It turns out that getting chips running faster causes them to generate more heat than their stock coolers were designed to spread, so overclockers began demanding (and often making their own) aftermarket coolers. They also cut extra fan holes in their cases to keep the inside cool. Pandora's PC box had been opened. Here they cut our stuff, when someone (I have no idea who) got the idea of cutting an actual window into the box, so that able peer peer a case while it was in operation. Soon modders were going to auto parts stores and get 12V fluorescent tubes to light up their systems. Why did they do it? Well, why not? Why do people put racing stripes and ground effects on their cars? Why do people paint their houses? The simple answer is to create something visually impressive, undeniably cool – and something unique. Most modders are players, and players engage in LAN (Local Area Network). LAN fasteners exist so players can get together and play multiplayer games with or against each other on a local network, without waiting times that often bother internet games. Participants transport their computers to agreed places (often hotel rooms), where they sit side by side and often compare PC specifications. Bringing a visually modded box is a great way to start conversations, woo admirers and stand out from the crowd. For full low-down on LAN parties, check out Extreme Tech's Having a LAN Party. Typical ModsThere are two types of mods: functional mods and visual mods. Functional mods change the performance or operating parameters of the computer, and include tweaks such as overclocking and cooling of a system. Some people even consider adjusting a computer's BIOS settings and optimizing Windows XP settings (or those of which operating system is installed) for maximum performance as a form of modding. Specific functional mods include:•Air cooling case. Adding blowholes and fans to the case increases air flow through the structure, lowering the ambient temperature in the case.•Air cooling of the main components. Aftermarket air coolers are widely available to bring much more efficient cooling to CPUs and GPUs, so you can overclock bejeezus out of them without burning them out.•Liquid cooling the main components. Adding a liquid cooling system either from a set or by grabbing hose parts and doing it yourself is a large fuse against heat caused by overclocking. A typical liquid cooling system includes a radiator, a pump and water blocks attached to the CPU, and sometimes to the GPU and northbridge.•Electronic cooling of the CPU. This is done using a Peltier element, which is a flat cushion that uses electronics to quickly transfer heat from the cold side to the hot side, where an air cooler spreads it into the air in the case.•Add a modular power supply. Modular power supplies only allow you to use the power cables your system absolutely needs, reducing the amount of cabling in your system, and improving airflow.•Adding rounded data cables. Get rid of the flat band cables for IDE and SCSI stations and replace them with rounded cables increases airflow through the case. Visual modding is tons of fun and consists of doing something that enhances the aesthetic appeal of the system, and makes it a hot rod. Add windows, fans, strobe lights that respond to sound or UV-reactive data cables, or build a kind of mind-blowing case from scratch are visual mods. Visual mods include:•Cutting a window into the system. Modders literally chop a hole in the side of the computer case, buy a sheet of clear plastic like Plexiglass and use it to create a window into the recesses of the computer. Some modders cut simple rectangles, while others create incredibly complex and intricate patterns. •Illuminates the case inside. All kinds of lights are available to add lighting inside a case, from cold cathodes to LEDs, from blue-lit power supplies to glowing fans. •Add colorful and UV-reactive components. Motherboard makers and makers of other components now cater to modders, using circuit boards in different colors and even bright, UV-reactive colors of things like PCI and AGP slots and other sockets. •Build custom cases. Modders build matters out of all sorts of things. I've seen cases built entirely of clear plastic, or built out of old stereo components, a hamster bag, a fish tank or wood. And I've even seen caseless computers whose components were mounted on walls. •Painting. Why settle for beige when you can strip your computer naked and paint the case whatever color you like? Modders paint solid colors, create cool marble patterns and even do some amazing screen printing work. Modding Goes MainstreamIt was a time when modders had to pretty much invent everything they needed themselves. Water cooling required jury rigging of your own pump and pipe network; if you wanted a grill for the new case fan, cut one out of the metal window screen. How things have changed. Today, building a modern system is as easy as shopping (see sidebar: Shopping for Parts). You can secure pre-modded cases of all shapes and sizes, from small, cubic, mini-PC cases to sensational towers with stunning windows and front panels that look like alien heads. Accessories are also easy to get by. No longer do you need to do your own splicing to add lighting to a case: now lights are available with Molex connectors for standard PC power supplies. Water cooling systems come in sets with everything you need ready. Fans come pre-lit, with a fantastic selection of fan grills available. Building a modded PC is a simple matter of assembling such parts. Whether it's cheating depends on how you look at it. If you buy and mount a window case, illuminated fans, a cold cathode lighting pipe and a water cooling set, you haven't really modded anything; However, you have created a system that looks and works far better than the average office workstation. But for many hardcore PC enthusiasts, modding means doing it yourself. The Amazing Modding CommunityIf you want to learn much more about modding, it is to check out modding sites, and to deceive and and join modders' bulletin boards. Modding community is a wonderful, budding, friendly group, incredible accept by beginners as long as they don't ask questions covered in dozens of former threads. In addition to ExtremeTech, you can also check out sites like Bit-Tech and GideonTech.Modding is a terribly challenging and ultimately rewarding pastime for people who are passionate about their PCs. Hunt down the clearest case you can find, and chop and paint it into something amazing. Push your PC to the max, chill the heck out of it, and make it look like a wonderful work of art. After your first project, you will be hooked. Joel Durham Jr. is a freelance writer and editor. He is also a game columnist for Microsoft's Windows XP Expert Zone, and has written books on building and optimizing PCs, including an upcoming Dummies title. Joel was senior technical editor of CNET's Gamecenter, a loss of dot-com implosion. He has written hundreds of features, how-to's, news articles, columns and reviews that focus on the technical side of PCs, which specialize in multimedia and games. Joel lives in upstate New York with his wife and children. Children.

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