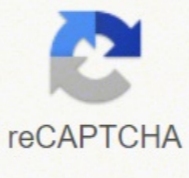
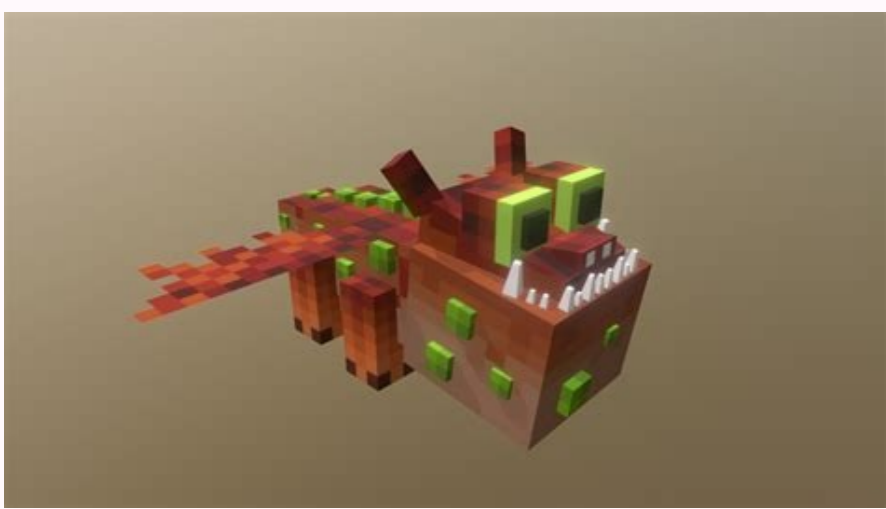




I'm not robot



Next





Arevo doesn't plan to produce or sell bikes for the masses, but the company wanted to show the incredible possibilities of 3D technology. Weapons Some of the most controversial creations of 3D printing are weapons, particularly guns. Photo Courtesy: @PopMech/Twitter The study wasn't easy. Printing a guitar can be cheaper, faster and more convenient than purchasing one. There are also 3D-printed record players. The group printed a drum, keyboard and two guitars. Weddings Many couples try to find tips and tricks for saving money on their weddings. He invented a portable, 3D-printed wheelchair ramp. Photo Courtesy: Iain Farrell/Flickr UCL's Design Computation Lab is one of the organizations that's paving the way for 3D-printed furniture. He practiced surgery on a printed spleen and acquired more knowledge before performing the procedure on his patient. As of late 2019, the 3D printer remains 250 miles above us on the International Space Station. Using a 3D printer, music lovers can get close to the real thing. Photo Courtesy: @TreeHugger/Twitter Next, Anderson made Derby 3D-printed prosthetics, and these were better tools for him. With the rise of 3D printing, photographers can create custom cameras for themselves. This relatively new technology has disrupted the medicine, music, fashion and automotive industries — for the better. used 3D software and technology to create the world's first 3D-printed bicycle. The automotive company reached a huge achievement by printing one million components over the course of a decade. Some guests had no idea she 3D-printed her wedding and thought everything was store-bought. BMW's Millionth Component White 3D printing isn't new, some luxury brands support it more than others. The product is currently only for pharmaceutical testing. British indie rock band Klaxons performed using a printed guitar. Big fitness brands have already released 3D-printed shoes for mainstream consumption. Photo Courtesy: @cnni/Twitter Now, the guards happily put on 3D-printed helmets, which come with hidden air vents and more space. The amphibious gill could allow humans to breathe underwater. In fact, a medical charity hospital in Jordan produced 3D-printed prosthetics for victims of war. They had trouble keeping the model's rounded shape and getting ink that was the right consistency to fit in the printer's tube. Some people can also print their own frames at home. Even better, BigRep plans to let its users print replacement motorcycle parts from home instead of buying pieces in stores. What's life like under the sea? Photo Courtesy: @RickHansenFdn/Twitter Krauthausen's prototype took a lot of work and optimization. With just a picture of a keyhole, researchers found a way to print out a working key using special software. However, one bride cut costs for her special day using a 3D printer. Amphibio is a groundbreaking invention (whatever the aquatic future may hold). Consequently, a federal judge temporarily blocked the release of the blueprint. Bones 3D printing has transformed the medical industry in many ways. 3D printing has evolved over time and revolutionized many businesses along the way. SLO is a 35mm film camera with a "film cartridge, film path, film take-up spools, gears for rotating the spools, shutter, aperture plane, lens, film access door and a lightproof box." Helmets Need protective headgear? One incredible example of how 3D printing has disrupted the industry is by fixing broken bones. The new technology allows healthcare professionals to print in different colors, textures, gradients and transparencies. Photo Courtesy: Tech Insider/YouTube In fact, a housing charity company has already teamed up with a tech construction company to tackle global homelessness, and people are living in these extraordinary homes. Can't find the right dining chairs to go with the rest of your home's décor? Adidas also developed futuristic shoes in 2016, but the company only gave them to Olympics-winning athletes at first. A family from France became the world's first to live in a 3D-printed house. For instance, car manufacturer Bentley created the Bentley Speed 6 using state-of-the-art metal 3D-printing technology. Thanks to 3D printing, homes can be built in less than 24 hours at a cost of only \$4,000. Her printed creations took the forms of a squid, an octopus and other ocean creatures. Bridges Bicyclists and pedestrians can now cross on 3D-printed bridges. His prototype helps him ride up and down steps and curbs. Whether it's lipstick or eyeshadow, it's possible to create cosmetics with 3D printing. Although two weeks sounds like a long time, it's quicker than the traditional, more labor-intensive process. Some of these bridges have popped up around the world. Photo Courtesy: @HYPEBEAST/Twitter For instance, 3D modeler Amos Dudley designed and created a fully functional camera called SLO. Humans may be able to know the answer sooner than we thought. Forgot your keys? Dutch fashion designer Iris van Herpen also featured 3D-printed dresses at a runway show. One woman developed a portable makeup printer called Mink, allowing people to print at their homes, in their cars or even in their favorite coffee shops. Although 3D printers can work with metals, it's expensive. Eventually, anyone can snap a picture of a friend's makeup and print it out later. Researchers from Fiji used a coral skeleton and 50 iPhone images to develop effective and attractive 3D coral models. Skin Hold the phone. Thankfully, the researchers aren't planning to sell their tech. Organs 3D printing is going to brilliantly disrupt the medical industry. The bridge is expected to appear in Amsterdam's red light district over the Oudezids Achterburgwal canal. Prosthetic Arms Traditional prostheses are expensive, but 3D printing has the potential to put an end to that problem. Harnessing her love for 3D printing, Erin Winick designed and created her headband, the table topers, the cake topper, the floral cake decorations and the flower girl's necklace using a 3D printer. What a time to be alive. Coral Coral reefs have also merged with the 3D-printing revolution, and scientists believe 3D printing may help the environment. And automotive companies aren't the only ones building cars. For instance, you can create all types of guitars, from acoustic to electric. Photo Courtesy: Felix Yoo successfully presented the ways the machine works on a pig. In early 2019, University of Newcastle researchers developed a highly advanced "human" cornea using a 3D printer. Concerned for public safety, multiple states filed lawsuits to stop the information's release. People can 3D-print all types of food, from pizza to spaghetti. Keys Locked out of the house or office? The audio on the new records is low-quality, but listeners can still recognize the music. In fact, fish have already embraced the 3D-printed coral as if it was the real thing. Some people have also 3D printed entire cameras, including the lenses. The ingredients must be pureed and fit into a syringe-like device in order to eject onto a plate. The Refabricator lets astronauts recycle waste to create new tools while in orbit. Photo Courtesy: Maurizio Pesce/Flickr The quality is just as good as an instrument made of wood or metal. The space agency invented the "Refabricator," a system that takes 3D printing to a whole new level. The guards aren't the only ones who get to enjoy 3D-printed helmets, either. No worries. BigRep developed the world's first 3D-printed motorcycle called NERA (and it looks amazing). Eventually, the researchers successfully created an artificial cornea that's close to a real one. Bikes Arevo Inc. The fully functional bike is made of carbon fiber. Other than cheaper prices and faster construction periods, 3D printing could also help those living in poverty. For instance, German disability rights activist Raul Krauthausen designed a game-changing device. It can also help astronauts in space to create meals and make meat more sustainable. MORE FROM SMARTER.COM Although the company has already reached a major accomplishment, BMW is just getting started with 3D printing. Refabricator NASA is one step closer to turning one person's trash into another person's treasure. The company used 3D printing for prototypes and development at first. Of course, Nike welcomed the trend too. Using the new technology, Organovo developed functional liver cells that survived for more than 40 days. The prosthetics allowed him to run and sit just like other dogs. Many dresses have been created thanks to 3D printing, including wedding dresses and runway dresses. Thanks to 3D printing, more dogs, cats and other pets have the chance to walk and run in ways they couldn't have before. Food 3D-printed food may sound weird, but it can still be delicious. This company is ready to change the motorcycle industry. The 3D-printed versions of the invertebrates offer the possibility to save more than just the coral, but also other organisms. Thanks to 3D printing, the automotive industry is changing. Photo Courtesy: Vzvzvlad/Wikimedia Commons Defense Distributed released a blueprint showing people how to build a 3D-printed firearm, and it was downloaded 100,000 times in two days. Testing the product on humans may be next. Glasses Frames For those who wear glasses, finding a frame that fits right is challenging. As a result, Defense Distributed made the firearm from plastic. The new arm only cost \$350 to make, while many prosthetic arms can cost up to \$40,000 each. Dr. James Yoo created a special 3D printer that can scan the wounds of burn victims and crank out synthetic skin right into the injuries. Even better, scientists at Harvard's Wyss Institute developed 3D-printed hearts with blood vessels and beating heart tissue. Camera Can't afford the camera of your dreams? However, a 3D printer can reduce the time. These luxury gowns cost up to \$3,200. Fitz Frames also allows users (both kids and adults) to create unbreakable 3D-printed glasses through an app. Using industrial robots to print the bridge, MX3D finished the project after four years. We can now print skin thanks to 3D printers, although the technology is currently only tested on animals. For more than 100 hours, Winick cranked out and put together all the bouquets. Are you tempted to buy these gills? Dresses Fashion and design have also embraced 3D technology. For those looking for luxury 3D-printed smart homes, haus.me sells homes that allow customers to live off-grid almost anywhere. Guitars If you love musical instruments, you can 3D print them too. Photo Courtesy: @engadget/Twitter That's good news for people who forget or lose their keys often. Design brand Nagami also partnered with famous artists to develop 3D-printed chairs, and the collaboration was revealed during Milan Design Week 2018. Records Vinyl LP records are returning to the mainstream, but some are coming back as 3D-printed versions. Believe it or not, we will be able to 3D-print solid organs eventually. Big brands like GlassesUSA have adopted 3D printing technology. Take a look at some impressive real-world examples of 3D printing and the companies that have embraced this advanced technology. Motorcycle Are we living in the year 3000? Photo Courtesy: ZAGAT/YouTube There are many benefits of 3D printing food, such as bringing complex and artistic culinary visions to life. Photo Courtesy: @BGR/Twitter The 3D-printed e-motorcycle is fully made from scratch, from the tires to the frame. Made for high performance, the Blade is set to be the world's first 3D-printed supercar. Thanks to Keysforge, you can replicate any key you want. No problem. UCL developed a chair printed from plastic. Photo Courtesy: @CBSNews/Twitter However, researchers are one step closer to 3D-printed organs. Also, the world's first live concert with 3D-printed instruments took place in Sweden. Instead of running to IKEA, consumers will be able to customize their furniture with 3D printing. Well, it's soon to become a dream come true. Photo Courtesy: Iaac/Wikimedia Commons Dutch start-up MX3D plans to install a 3D-printed stainless steel bridge. Fortunately, 3D printing is creating new and improved opportunities for customized glasses frames. Even better, the products turned into the natural bone and repaired large leg fractures in sheep. Now, the 3D skin printer is on standby for FDA approval to start testing on humans. SpaceX developed a helmet that's almost entirely 3D-printed. In fact, the world's first 3D-printed bridge is located in Gemert, the Netherlands. Photo Courtesy: @doctorow/Twitter According to Mashable, the world's first 3D-printed record was unveiled during the 2013 SXSW festival. Photo Courtesy: HP/YouTube Glasses wearers are also happy about the additional alternatives. Photo Courtesy: Pixabay The co-founder of Mink, Grace Choi, says the color options are endless. The 3D-printed bike is also fully functional and stronger than titanium. Photo Courtesy: @RoadandTrack/Twitter It all started 25 years ago when BMW began testing out the new technology. After two weeks, the company finished building the bike. Photo Courtesy: @Bercil/Twitter A Seattle doctor saved a spleen instead of removing it by utilizing 3D printing. The sleek headwear features air-cooling components and a retracting visor. Corneas Millions of people around the world need surgery for new corneas due to corneal blindness or scarring. The company released a 3D-printed, stretchy, water-exPELLing running shoe at a whopping \$600. Cars Dreaming about driving a 3D-printed car? Printing a gown is cheaper, easier and quicker. His owner, Tara Anderson, provided him wheels for mobility, but these just weren't the right fit. Is your favorite lipstick discontinued? Photo Courtesy: @ToshJohn/Twitter With the help of the Refabricator, astronauts can stay in space longer. Doctors and surgeons who study the models learn more about human anatomy due to the prints' realism and accuracy. Now, the eyewear industry has met the 3D printing uprise. According to Yoo, the artificial skin heals burns and wounds faster as well. Furniture Home decorations and technology are merging more than ever before. The product successfully healed broken leg bones in rabbits. Photo Courtesy: @Ultimaker/Twitter Those days may soon be over. The practice gave him confidence and helped cut the time of the surgery. Makeup Running low on makeup? In one case, college students used a 3D printer to create a prosthetic arm for six-year-old Alex Pring. Photo Courtesy: Wikimedia Commons The Blade is another example of how the industry is evolving. However, we also have bad news: 3D-printed keys could be a thief's ticket to unlocking any building. The Berlin-based technology company BigRep definitely makes it look like we're already in the future. Photo Courtesy: @Reuters/Twitter The Arevo bike looks and feels like a high-end bicycle for commuting. A cute husky, Derby, was born without two front legs, so his ability to move was limited. Making traditional prototypes for instruments takes many hours of trial and error. You can make a spare key with a 3D printer and always have a copy with you. He also shared his process online so others can print mini wheelchair ramps for themselves. Shoes This technology is also revolutionizing fashion footwear by creating custom-made shoes for better support and fit. Other ingredients must be added by hand. 3D-print it! The Swiss Guards who protect the Pope at the Vatican always wear helmets, but for more than 500 years, those hard hats have been uncomfortable to wear (especially in the hot sun). Defense Distributed developed the first 3D-printed firearm in 2013. Photo Courtesy: @CNET/Twitter The artificial creations can also protect coral reef inhabitants. Art graduate Jun Kamei created an incredible 3D-printed garment with gills called Amphibio. Eventually, it printed automotive components for mass production. The ramp had to be big enough to allow people in wheelchairs to move up or down average-sized steps but small enough to fit conveniently in a wheelchair's pocket. For instance, the device can print a pink eyeshadow in less than 40 seconds. In China, Shanghai has one of the largest 3D-printed concrete bridges on the planet, measuring 86 feet long and 11 feet wide. Photo Courtesy: @SAI/Twitter In 2018, Adidas kicked into full gear and dropped new tech shoes to the masses for a cost of \$300 a pair. Photo Courtesy: @bfield/Twitter She also printed about 200 flowers for the bridesmaids' and bride's bouquets. After a bone breaks, plates and screws are often required to hold the damaged parts together as the bone heals. The frames may be too big, too small or too uncomfortable. However, scientists may be one step closer to solving this problem thanks to 3D bioprinting. Lenco-MD developed the first 3D-printed modular record player in 2018, winning the best innovation award at a consumer electronics fair. Pet Legs 3D printing can also change the lives of animals. For those looking for superhero-inspired prosthetics, The Hero Arm develops strong, bionic 3D-printed prosthetic arms. Homes Homebuilding techniques are changing. Photo Courtesy: @imperialcollege/Twitter Kamei was inspired to create Amphibio to help humans survive if a flood occurs or if the earth becomes submerged due to rising sea levels. Photo Courtesy: @dwell/Twitter Thanks to 3D printing, we can print brilliant and useful products, from homes to wedding accessories. Photo Courtesy: StarWarsRey/Wikimedia Commons Thanks to 3D-printing enthusiasts, people like Pring can afford artificial body parts. Thanks to Mink, users can easily create makeup in any color using FDA-approved ink. For instance, using artificial corals could fix the damage that results from bleached corals. Now, you don't need to shop for a dress at the store anymore — you can develop one right at home! Photo Courtesy: @lonelyplanet/Twitter In Shanghai, designers 3D printed intricate wedding dresses that took one week to make. London-based photographer Paul Kohlhaussen 3D printed many components to create his dream camera. The ingredients are all real too. The researchers analyzed a volunteer's eye to create a model. A father and son 3D-printed their own "Lamborghini" in 2019. Medical Models 3D-printed medical models are groundbreaking for preoperative analysis. The guards no longer have to worry about the uncomfortable helmets. Since 2010, BMW has adopted 3D-printing processes to manufacture car components. Perhaps people on Earth will be able to use this incredible technology to recycle all types of waste someday. Wheelchair Ramps With 3D printing, it's possible to create brilliant and useful products. Scientists at the University of Rochester Medical Center developed model organs that bleed, feel and look like real ones. Hala Zreigat and her team at the University of Sydney developed a 3D-printed ceramic implant. For instance, New Balance began selling \$400 3D-printed shoes in 2016. Strati plans to sell the world's first 3D-printed electric car, which consists of far fewer parts than a traditional vehicle. "Do not duplicate" keys aren't restricted, either. The only components that weren't printed were the electronics.

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