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Chapter 74 of Riverdale: Wicked Little Town music gave fans songs from The Headwig and Angry Inches. The cast — including Cole Sprouse — performed several songs from Broadway hits, including Midnight Radio and Random Number Generation. The cast wore shirts with numbers during that scene, leaving fans to wonder what the number symbolizes. Lily Reinhart took to Twitter to explain what she meant. The cast of Riverdale on The CW. Art Streisand/CW's Hedwig's songwriter actually wanted to work on 'Riverdale' Hedwig and angry-inch songwriter Stephen Trask is a fan of Riverdale, so he reached out to the show's chief creative officer Roberto Aguirre-Sacasa about working together. Trask explained to Rolling Stone why he wanted to work with award-winning playwright Aguirre-Sacasa: I love [Roberto's] vision. He brings a lot of elements with a telenovela kind of Douglas Sirk-style melodrama and also speaks to The Americansna and teen drama. It's going on a middle way to bring those things together and sing them. I reached out to him just for the kind meeting and see if we could do something together and said what a fan I was of Riverdale. It turned out they were, at the time, looking for a musical. Trask is more than he can ever imagine when Aguirre-Sacasa told him he wanted to incorporate Trask songs from Hedwig in an episode of the series. The cast of 'Riverdale' performed 'Random Number Generation' in 'Chapter 74: Wicked Little Town', principal Honey slowly stripped Kevin's creative power on the school's diversity show because he didn't agree with music from Hedwig and the angry inch is being performed. Floored by Mr. Honey's censorship, Kevin helped his Riverdale High classmates to belt out random numbers generation, a song that captures the anger that has been born out of being seen or heard for who you really are. To drive home the thing is that each student was feeling like a tooth in a machine, the show runner put cast members in numbered shirts. According to Reinhart, there was a certain point behind those numbers. The meaning behind everyone's number might be the song title random number generation, but the numbers on each cast member's shirt were anything but. We are wearing our cast number on our shirts, Reinhart tweeted after the episode aired. We are wearing our cast number on our shirts. I #Riverdale (the way we are counted on our call sheet) - Lily Reinhart (@lilireinhart) April 16, 2020 She specified how everyone's call sheets were numbered. The show serves as a schedule for a call sheet actors in the business, telling the cast and crew where and when they need to film their scenes. A typical call sheet is a cast list on it over call time to each cast members. The shirt each cast member was wearing during the random number generational visual emblematic of its place on the call sheet. Naturally, K.J. Aja was number one, with Reinhart just behind him at number two. Camila Mendes was three and Cole Sproz was number four. Madeline Patsch was fifth in line on the call sheet - did you notice her special red number? Related: 'Riverdale': Cole Sprouse actually sang during the 'Hedwig and The Angry Inch' episode It's been a long time since many of us have all had the joys the office has been offering. Crisp crunching, constantly humming, that guy who bangs his keyboard super loud.. I Is it all coming back to you? If ambient noise is something you miss, your home day is about to get a lot better about working. I miss the office is a time-sucking interactive website (to create your own, refer to our pick of the best web design tools), which simulate office noise — a resource that currently feels like a big hit of nostalgia, as well as being some top-class procrastination. I miss the office (Image Credit: I Miss the Office) site, designed by Fred Wordie, Ben Olayinka, and creative agency Children's Valentin Cheli, aesthetics is low — just an office floor plan with colorful floating components and stark arranged furniture. But clicking on each element activates a different office noise, which works in isolation or layered together so you can enjoy the symphony of office-themed bubbles. If you leave the website running in your browser, those noises will continue to chime every time, helping you feel less alone in your WFH space. You can also increase the number of colleagues if you want to work in a large team. Check out those temporary elements – wandering around like colleagues (Image Credit: I miss the office) We warn you, most of the noise is not pleasant (as you want to imagine). There's something particularly loud chewing and a squeaky chair that could easily pass a noise away to the hull, to name two of the most irritating. But still, it made us nostalgic for a time when other people's behavior was our problem. Cyber Monday Deals: See all the best offers right now! All these noises require input from people, people who are currently missing from our home offices and that's why it's comfortable, Says Cheli. Whether comfortable or irritating, we think it's a sleek, fun piece of web design for whiling a few minutes away. Not ready to return to office? Check out Lego's unique guide on how to WFH like a pro. Read more: Extreme Tech staff can earn commissions affiliated to this site link on this page at 12:00 pm on May 18, 2001. Terms of Use. For Fortified's random-number generator this analysis presents several ways to analyze the true randomness of the function. From computer cryptography to video games and gambling to every generate random numbers for . are. There are two categories of random numbers – true random numbers and pseudo numbers – and the difference is important for protecting encryption systems. Computers can actually generate random numbers by looking at some external data such as mouse movements or fan noise, which is not predictable, and can create data from it. It is known as Entropi. Other times, they generate pseudonym numbers using algorithms so that the results appear random, even if they are not. The topic has recently become more controversial, with many people questioning whether Intel-made hardware random number generator chip is trustworthy. To understand why it may not be trustworthy, you have to understand how random numbers are generated in the first place, and what is used for them. What random numbers are used for random numbers has been used for many thousands of years. Whether it's flipping a coin or rolling a dice, the goal is to leave the end result until random chance. Random number generators in computers are the same - they are trying to get an unexpected, random result. Related: What is encryption, and how does it work? Random number generators are useful for many different purposes. In addition to obvious applications such as generating random numbers or producing unexpected results in computer games for the purposes of gambling, randomness is important for cryptography. Cryptography requires numbers that attackers can't guess. We cannot use just the same number more and more. We want to generate these numbers in a very unexpected way so that the attackers cannot guess them. These random numbers are required for secure encryption, whether you're encrypting your files or using an HTTPS website on the Internet. True Random Number You may be wondering how the computer can actually generate a random number. Where does this randomness come from? If it's just a piece of computer code, can it not be possible to generate the number the computer is predictable? We typically group random numbers generated in two types of computer, depending on how they are generated: true random numbers and pseudo random numbers. To generate true random numbers, the computer measures some kind of physical event that occurs outside the computer. For example, computers could measure the radioactive decay of an atom. According to quantum theory, there's no way to know for sure when radioactive decay will occur, so it's essentially pure randomness from the universe. An attacker will not be able to predict when radioactive decay will occur, so they will not know the random value. For more day-to-day examples, the computer can rely on atmospheric noise or simply use the exact time of pressing keys on your keyboard as a source of unexpected data or entropy is. For example The computer may notice that you pressed a key in exactly 0.23423523 seconds after 2p.m. Grab the specific time associated with these major presses adequately and you'll have the source of the Entropy that you can use to generate true random numbers. You're not a predictable machine, so an attacker can't guess the exact moment when you press these keys. On Linux/dev/random device, which generates random numbers, blocks and does not return a result unless it actually collects enough entropy to return random numbers. Pseudodom number pseudodom number is a choice of True Random numbers. A computer can use a seed value and an algorithm to generate numbers that appear random, but that are actually predictable. The computer does not collect any random data from the environment. That is not necessarily a bad thing in every situation. For example, if you're playing video games, it doesn't really matter if the events in that game are caused by a true random number or pseudo number. On the other hand, if you're using encryption, you don't want to use the pseudo-dominance number that an attacker can guess. For example, let's say an attacker knows the algorithm and the seed value uses a pseudo production number generator. And let's say an encryption algorithm gets a pseudonym number from this algorithm and is used to generate encryption keys without adding any additional randomness. If an attacker knows enough, they can work backwards and the encryption algorithms can determine the pseudonym number chosen in that case, breaking encryption. To help NSA and Intel's hardware random number generator developers simplify things and generate secure random numbers, Intel chips include a hardware-based random number generator known as RdRand. This chip uses an Entropy source on the processor and provides random numbers to the software when the software requests them. The problem here is that the random number generator is essentially a black box and we don't know what's happening inside it. If RdRand contained an NSA backdoor, the government would be able to break encryption keys that were generated only with that random number data supplied by generators. This is a serious concern. In December 2013, the developers of FreeBSD removed support for using RdRand as a source of randomness directly, saying they couldn't rely on it. [Source] The output of the RdRand device will be fed into another algorithm that adds additional entropy, ensuring that the random number does not matter to any backdoor in the generator. Linux already worked this way, and coming from Rdrand Random the data so that it is not predictable even when it is backdoor. [The source] recently gave a (Ask Me Anything) at an AMA on Reddit, Intel CEO Brian Krzanich didn't answer questions about Concerns. [Source] Of course, it's likely not just a problem with Intel chips. The developers of FreeBSD also called Via's chips by name. This controversy shows why creating random numbers that are actually random and are not predictable is so important. To generate true random numbers, random number generators collect seemingly random data from entropy or the physical world around them. For random numbers that don't really need to be random, they can just use an algorithm and seed value. Image credit: rekre89 on Flickr, Lisa Brewster on Flickr, Ryan Soma on Flickr, Huangjiahui on Flickr Flickr

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