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## Ram amritwani song

What is RAM? Random-access memory (better known as RAM) is a central part of computers, game consoles, smartphones, servers and almost any piece of computer technology. This hardware acts as a kind of intermediary between the device's CPU - or processor - and the data stored on the hard drive, so when you access that data, run programs and so on, the RAM is there to serve it up to you. Cyber Monday deals: see all the best deals right now! But there is a lot more to know about RAM, from the different generations of DDR to the question of how much you actually need. We cover all the RAM fundamentals here. If you want to buy new RAM, be sure to check out our best RAM buying guide. RAM explainedLet's going into a little more detail about what RAM actually is. All your documents, videos, games and programs are stored on your hard drive or SSD – the long-term memory of your computer where things permanently live until you delete them. When you open a program or start your computer, the data is temporarily transferred from the hard disk to the ram, which then contains the data that the CPU (or processor) must process. The processed data then returns to the RAM, where it remains until you close the program or your PC. RAM is a temporary and 'volatile' storage location for your data when and if you need it, as a workbench for your PC. The more RAM you have, the bigger that worktable. When you shut your PC down, everything on the worktable gets cleared and packed away. (Image credit: Shutterstock) What we colloquially know as RAM is actually called DRAM (Dynamic Random Access Memory). There are other forms of RAM, such as VRAM, that perform a similar function on graphics cards, but that's not our focus for today. Theoretically, a computer could actually run without RAM, it would just run much slower because the CPU would have to read it directly from the hard drive (even a modern NVMe SSD has a much slower response time than DDR4 RAM). These days, however, the motherboard BIOS utilizes RAM too, which means the operating system will not start without it. (Image credit: TechRadar) DDR and FrequencyAward to buy RAM, the main features you'll look for RAM size (8GB, 16GB and so on) are DDR and a frequency shown in MHz.DDR stands for Double Data Rate, and has been the standard form of RAM for decades now. Most motherboards you would buy today use DDR4 RAM. If you have a slightly older motherboard with DDR3 RAM in it, then you will need to upgrade your motherboard if you want DDR4 RAM. DDR4 was released in 2014 and is more modern and advanced than DDR3, which was first released in 2007. DDR4 RAM has a higher base frequency of 2133 MHz (which is very high than for DDR3), as well as a higher peak bandwidth. DDR4 also runs at a lower voltage, which means it better preserves the battery life of devices like laptops and phones. Performance-wise, it's the frequency and bandwidth that make more of a difference the actual DDR number, but watch as DDR4 has more capacity capacity both, then you are generally better off buying it. But if you currently have, say, 16GB DDR3 2133MHz ram, it will run at roughly the same speed as 16GB DDR 4 2133MHz ram. You want to get higher frequency RAM to see no performance difference, and even then it can be subtle. Again, it's important to remember that if your RAM is DDR3 then you can't just swap it out for shiny new DDR4 RAM, you should get a DDR4-compatible motherboard. But if you're building a new PC or upgrading to a more modern processor (which may also require a new motherboard), then it makes sense to get DDR4 RAM. DDR5 RAM now also exists, bringing even greater frequencies and under-the-hood improvements, but it is not yet available commercially. (Image credit: Corsair) How much RAM do you actually need? When DDR4 first appeared, there was a lot of excitement about how it could technically have modules as large as 512GB. In fact, unless you're running servers, you won't need more than 16GB of RAM in total, or 32GB in a tap. No game comes close to using as much RAM, and unless you work in high intensity video production and have countless programs and browser windows open at once, 16GB should be more than enough. Even on the most demanding games, performance will probably be very similar on 8GB of Ram as 32GB of RAM if the CPU and GPU are identical. Most motherboards have four RAM slots, so when you buy RAM, you can spread it over two to four slots. But is, say, 4 x 4GB of RAM faster than 2 x 8GB? For the most part, no, but since most modern motherboards only support dual-channel memory, you're probably better off choosing to use only two slots. Actual performance benchmarks show very little difference between using two and four RAM sticks if you use the same capacity and frequency ram. From a stability perspective, the smaller parts that go wrong, and also using just two RAM slots means you can fill the other two in the future (though you'll need exactly the same RAM across all slots). These are the best gaming PCs money can buy Image: Wiki Commons of Vauxford Ram pickup trucks have been on the market since the year 2010, although they were sold as Dodge Ram trucks for many years before that with the first use of the word Ram going all the way back to 1932! Dodge decided to let the Ram become its own thing in 2010, and it has competed toe-to-toe with the big dogs like chevy Silverado and the Ford F-150 ever since. In fact, a Ram truck has been Motor Trend's Truck of the Year 6 all times, including the most recent victory in the year 2019 when ram 1500 took home the title. The year-over-year popularity of Ram trucks has been on a recovery for a while now. Believe that in 2009 only 177,000 Ram trucks were sold in America. Ten years later and we can see that 633,000 Ram trucks were sold in the United States in 2019. It's an impressive climb and it shows that truck buyers are definitely turning to that curly horn logo when they're in market for a new truck. With so many models to choose from in an attempt to appeal to any kind of truck buyer, surely there's one that really matches up with the kind of person you are as well. If you want to know which Ram it is to take the quiz and see for yourself. PERSONALITY can we guess if you drive a Chevy or Dodge Truck? 5 Minute Quiz 5 My PERSONALITY can we guess what kind of truck you own based on your favorite Soul Foods? 5 Minute Quiz 5 My PERSONALITY What Is Your Favorite Truck? 5 minute quiz 5 min personally dreaming your perfect truck, and we'll guess what kind of man you like 5 minute quiz 5 min trivia keep on trucking through this quiz: Test your truck knowledge 6 minute quiz 6 min trivia you're a True Truck Fan If you can identify more than 11 of these trucks 7 Minute Quiz 7 My PERSONALITY Build Perfect Perfect Road Road Soundtrack and we'll guess your favorite car 5 Minute Quiz 5 My TRIVIA can name you the most dangerous road to drive on? 6 Minute Quiz 6 My TRIVIA Can You Identify These Monster Jam Trucks? 6 Minute Quiz 6 My TRIVIA Transmission Trivia for Truck Fans 6 Minute Quiz 6 Min How much Do You Know About Dinosaurs? What is an octogenasification? And how do you use a proper noun? Lucky for you, HowStuffWorks Play is here to help. Our award-winning website offers reliable, easy-to-eat explanations of how the world works. From fun quizzes that bring joy to your day, to compelling photography and fascinating lists, HowStuffWorks Play offers something for everyone. Sometimes we explain how things work, other times, we ask you, but we always explore in the name of fun! Because learning is fun, stick with us! It's free to play quizzes! Every week we send questions and personality tests to your inbox. By clicking Sign Up, you agree to our privacy policy and confirm that you are 13 years of age or older. Copyright © 2020 InfoSpace Holdings, LLC, a System1 Company William Hook/CC-BY-SA 2.0 Random Access Memory, or RAM, is used by computers to store and access information using a random order. This resource provides computers with a temporary way to process electronic data, while making computers more responsive and helping to operate memory-intensive applications. RAM chips are only able to store and access information when electrical power is present. When a computer shuts down or loses power, information stored in RAM is lost. RAM storage is temporary, and when equated with the human brain, RAM corresponds to short-term memory. This tool improves a computer's ability to operate memory-wide applications. When a computer runs a program or accesses a file, information is temporarily loaded from the hard disk and transfers it to the RAM. This allows the computer to access without longer delays. RAM is significantly faster than hard drives: The speed of high-quality hard drives can reach more than 1,000 MB/s, while RAM exceeds speeds of 15,000 MB/s. As a result, RAM RAM significantly more expensive than hard drives. The first RAM chips were proprietary designs of computer companies and worked only in computers built by that company. With the invention of single in-line memory module, or SIMM, chips, users were able to transfer RAM chips from one computer brand to another. Other.

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