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If you are looking for a new TV, then look no further. TechRadar has assembled the biggest, brightest and smartest televisions that have ever passed our eyes. Top performing televisions may be pricey, but you need to think of this as an investment that will return value over many hours and many years and will benefit your entire family. Most of the TV series in 2020 isn't yet coming, so many of the sets below are from 2019, but don't let that deter you. Upgrades between TV generations tend to be small steps, so you won't miss a huge amount by sticking to these models. Keep in mind that all of these TVs get software updates over the Internet anyway. For now, you can safely choose to upgrade to one of these top performing television currently on the market. Is bigger better? Check out our choice of the best 65-inch TVBest TV in an instant. Samsung Q90R QLED TVLG CX OLED SeriesBest 8K: Samsung Q950TS QLED TVBudget OLED: LG B9 OLED SeriesSamsung Q80T QLED TVBest TVLast TVYears. Samsung Q9FN was the TV to beat. It won praise galore for its features and image quality, not to mention its excellent, improved smart platform that came with Bixby support and Samsung SmartThings. But it wasn't perfect, and there were legitimate complaints about viewing angles and an over-aggressive local dimming system that shattered details just above the black. Samsung has clearly taken this criticism to heart, and directly addressed them in the Q90. The new model has a visibly superior viewing angle that holds its own against an OLED TV, and the local cushioning delivers deep black without losing shade detail. To this end, the new Ultra Black Elite filter is nothing short of a revelation that rejects ambient light in a way that just falters faith. Q90 is capable of delivering images that can directly compete with an OLED, with natural colors, bright highlights, deep blacks and well-defined shadows. It can also surpass any OLED when it comes to HDR, with images that are often breathtaking in their detail and dynamic range. In fact, our only real criticism would be that unlike some of the competition, the Q90 does not support Dolby Vision. But in all other respects the Samsung Q90 is an absolutely stellar new Samsung TV that takes QLED to another level. Read the full review: Samsung Q90R QLED TV (Image credit: LG) LG CX OLED is certainly the best OLED TV for 2020, and fully deserves to scrape the top of this list to the best TVs available today. Iterating on last year's LG C9 series, the LG CX might not seem that different - and it's not. But by continuing the same mesmerizing image quality and standout webOS smart platform, with a few modern updates like HDMI 2.1 and an A9 Gen 3 processor, it has managed to surpass its predecessor. With a new 48-inch OLED TV size now available too, the CX is an even more flexible proposition for a wider range of wallets and homes. With a sleek design and support for Vision and Atmos – along with roaring built-in sound – it's the great choice of any size. LG is really looking to lure gamers with its 2020 range, also with rock-bottom input delay, support for Nvidia G-Sync, and compatibility with 4K/120HZ gameplay for next-gen consoles. You won't get HDR10+ here, unfortunately, and UK viewers will have to go without all their fave catch-up apps, but make no mistake - it's the best OLED TV for you by 2020.Read the full review: LG CX OLED (Image credit: Samsung) 85-inch: Samsung QN85Q950TS | 75: Samsung QN75Q950TSAwesome image qualityStandard setting HDRNo Dolby Vision supportLimated 8K content Samsung Q950TS represents the latest 8K TV from the manufacturer, combining all the benefits of last year's Samsung Q900 8K screen with innovations first introduced 2019 flagship Samsung Q90 4K TVs that hit the shelves earlier this year. Combined in a top-notch QLED TV, the new Samsung Q950 offers an 8K panel and AI-enhanced image processing, plus wider viewing angles, an improved black filter and standard-setting HDR performance. If all that wasn't enough, Samsung's smart TV platform is the most comprehensive on the market. So if you're looking for a state-of-the-art new Samsung TV - and don't mind paying top-dollar for it - the Q950TS should be at the top of your short list. Read the full review: Samsung Q950TS 8K QLED(Image credit: LG)55-inch: LG OLED55B9 | 65-inch: LG OLED65B9LG's cheapest 2019 OLEDRich colors and sharp detailsNo the latest treatmentNo HDR10 + LG B9 OLED absolutely delivers on its promise – giving shoppers a cheaper way into the world of OLED, with the sharp contrast and vibrant colors that imply. Inevitably there are some corners cut to get there and you don't get the excellent experience of the C9 or E9 - while the delayed launch of the budget B9 model, and continued price cuts to more premium sets, means this year's B Series isn't quite the deal it would have been a few months ago. If the B9 is all your budget allows, it's a solid purchase, but scrimping and saving for lg C9 OLED - and keeping an eye on it in Black Friday and Cyber Monday sales - may be a better decision in the long run. (Image credit: Samsung) New for 2020, the Samsung Q80T QLED builds on the successes of previous models to a brilliant HDR TV definitely worth checking out. The most notable feature is the incredibly low input delay, making the Q80T a great choice for players who want responsive gameplay, but the QLED screen will also make generally look a pleasure all around. The Q80T is the cheapest 2020 Samsung TV to come with a full-array backlight, which means you get consistent brightness but not some of the premium grades higher end set – hence that's why it lands lower on this list than last year's Q90 QLED. It's also not quite as elegant as the zero-bezel Q950TS, with a thick body compared to other QLEDs in this year's range. However, you'll still get Samsung's latest Quantum vibrant HDR colours and advanced smart TV features via Us. If you want more of a saving, also the Q70R QLED is this TV's predecessor, and will cost you a good few hundred dollars less than the new Q80T model (yes, that's some product line, and yes, the naming is confusing). Read the full review: Samsung Q80T QLED TVHow to buyWhat TV technology is best? Which is the best LCD TV? Which screen size is best for your living room? What is the difference between LCD and LED TVs? The answers are not always obvious. In fact, buying a new TV can be stressful even for tech-savvy - since there are so many brands, so many features, so many screen sizes, colors, technologies and tastes to choose from. So which one is right for you, your family and your home? In this guide, we'll take you through everything you need to know about buying a new TV. What types of TV are out there? There are a lot of different screen types out there, all working on different ways to produce the same results. Each technology has its own unique strengths and weaknesses, so here are some basics to consider: LED TVs: Direct LED These displays are backlit by a variety of LEDs (light-emitting diodes) directly behind the screen. This enables localized dimming – which means that adjacent areas of brightness and darkness can be displayed more efficiently – and greatly improves contrast. LED TVs are also more power-efficient and capable of a wider colour range than CCFL sets. Due to the extreme cost of mounting these systems of LEDs, cheaper TVs usually use Edge-Lit LED screens over Direct or Full-Array LED displays. LED TV: Edge-LED With these TVs, LEDs on the backlight are mounted along the panel's edges. This arrangement enables radically slim screens and offers superior contrast levels to cclfl, but cannot achieve the same image quality as directly lit LED sets. But they come in much cheaper which is why most LED TVs out there now use this technology. OLED TV Backlight on OLED (organic LED) set is achieved by passing an electrical current through an emissive, electroluminescent film. This technique provides much better colors and higher contrast and also allows displays to be extremely thin and flexible. This is the holy grail display technology and LG, Sony, Philips and Panasonic have all adopted it in their flagship set. Quantum Dot Quantum Dot is Samsung's big game in the LED TV space. With it, the brand claims that it is able to produce more colorful images than LG and Sony while offering even lighter panels. LG's Super UHD TV all uses a variation of Quantum Dot called Nano Cell, and Hisense make a number of Quantum Dot TV for the U.S. and China.Curved TV Some manufacturers are still making TVs that have slightly curved screens. But unlike old CRT TVs, the curve is inward rather than outward. The idea is that this makes each pixel just far from your eyes, delivering a more satisfying image. However, there are drawbacks to type of screen, the most important is that if you are sitting Enough to one side - more than 40 degrees or so - the curve clearly begins to affect the image's geometry, shortening content near you and compressing the image's center. What resolution tech should I go for? HD HD TVs come in two resolutions. Sets with HD-ready are needed to display a minimum 720p image, and generally have a screen resolution of 1366 x 768 pixels. Meanwhile, Full HD TV has a higher resolution of 1920 x 1080 pixels. It is highly advisable that you do not go for anything less than full HD in this day and age. Ultra HD and 4K Ultra HD resolution is exactly four times higher than full HD — 3840 x 2160. This means a much more detailed image, where content requires much more bandwidth and storage space. 4K TVs tend to be good at scaling up HD video to Ultra HD, but there are currently very few options for viewing built-in 4K content. Learn more about 4K resolution.8K If 4K isn't enough to impress you, there's now a good range of 8K TVs coming into the market. This ultra-ultra-high-definition format packs in four times as many pixels as 4K, so you can get even sharper and sharper images. The problem is that there is little 8K content available - nothing on Netflix, for example! This means that these sets need very advanced processing to make upscale HD or 4K content for 8K displays, and while it's not yet a must-buy technology, it's definitely where the TV market is headed. Learn more about 8K resolution. HDR Arguably the switch to HDR video could make a more dramatic difference to your viewing experience than moving from HD to 4K. Like still HDR images, the moving version extends the reach of both the light and dark ends of the spectrum, providing more detail for both. HDR needs new film methods though – at the moment there is no way to fill HDR in existing video. It also needs new TV tech too, with Samsung the only one to create specific displays, though LG and Sony will be able to update some of their existing storage to be compatible. Buying a flat-screen TV is a great investment and one that you can't afford to take lightly. Just popping into the nearest store and grabbing the first plasma or LCD you see won't get you the best deal, the screen that suits your needs or the gear you need to get the most out of your new purchase. Size mattersPeople tend to choose the size of their flat TV based on the amount of space they have for it, it's not necessarily wise. Flat TVs take up a lot less space than you might think, so your new TV could end up one foot or two farther away from your viewing position, making the image smaller. Also, with hi-def, you can have a larger screen and the same viewing distance without worrying about seeing spots inherent to the source. A 4K TV's lack of noise means that the ideal distance to sit from the screen is three to four times the TV's height. size TV should I buy? How many HDMI connectors do I need? For a living room TV you should be looking for at least 3 HDMI HDMI If you want to attach a set-top box as well as game consoles, etc., these HDMI ports will fill quickly. (Image credit: iStock) You want me to hang my TV on the wall? First, consult a construction expert to verify that that wall is strong enough to support a flat panel monitor. Then find out if the kit you want is designed to be wall-mounted, and then ask if the appropriate bracket is included in the base package or as an optional extra. Will I be connecting it to a home theater? If the answer is no, consider the sound of the sound in your set. Look for a screen that can go as high as you need without distortion or cabinet rattle. Consider how the dialogue sounds and how much the low-end rumble bass is capable of. Conversely, it is pointless to pay out more money to exceptional built-in speakers if you already have a decent home theater system. Other shopping guides to check out