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Today, were bringing you Android 16, rolling out first to supported Pixel devices with more phone brands to come later this year. This is the earliest Android 16 lays the foundation for our new Material 3 Expressive design, with features that make Android more accessible and easy to use. Lets take a look at whats new: Streamlined and up-to-date notifications Waiting for your food delivery to get to your house? Instead of opening your delivery app every 5 minutes, live updates keep you informed in real-time. These live updates are starting with compatible rideshare and food delivery apps. Were working together with these app partners to bring this capability to the Android ecosystem, including in Samsungs Now Bar and OPPO and OnePlus Live Alerts. Were also force-grouping notifications that come from a single app to help reduce information overload. Your notifications will automatically be grouped together to keep things looking tight and organized. Android 16 provides significant enhancements for people who use hearing aids 1. Current LE audio hearing devices use their built-in front-facing mics for audio input. Those mics are designed to pick up the sound of the person you're speaking to not the sound of your voice. Now you can switch to using your phone's microphone for clearer calls in noisy environments. Were also releasing native control for hearing devices in Android 16 for easier access and a more consistent experience. This means you can now activate Advanced Protection 2, Googles strongest mobile device protection. It enables an array of robust device security features that protect you from online attacks, harmful apps, unsafe websites, scam calls and more. Whether youre a public figure or you just prioritize security, Advanced Protection gives you greater peace of mind that youre protected against the most sophisticated attacks. Samsung DeX has helped maximize productivity on phones, foldables and tablets for years. In Android 16, we worked closely with Samsung to develop desktop windowing, a new way to interact with your apps and content on large-screen devices. In addition to the single app and split-screen modes, you can open, move and resize multiple app windows in a single screen, just like a desktop. This makes it easier to work across apps. Android 16s desktop windowing will roll out later this year, were also launching custom keyboard shortcuts, so you can create your own combination of hotkeys, and taskbar overflow, which provides a simple, visual way for you to find the app you need when the taskbar is full. Future updates will also bring even more productivity enhancements to Android, allowing you to connect tablets and phones to an external display for an expanded desktop experience, and developers can begin testing those features starting today. There are many more features to explore with Android 16 like HDR screenshots, adaptive refresh rate, identity check and others as well as additional updates are coming to Android 16 and Wear OS 6 on Pixel devices. See all the Android 16 features at Android.com/16. Android operating system is the largest installed base among various mobile platforms across the globe. Hundreds of millions of mobile devices are powered by Android in more than 190 countries of the world. It conquered around 71% of the global market share by the end of 2021, and this trend is growing bigger every other day The company named Open Handset Alliance developed Android for the first time that is based on the modified version of the Linux kernel and other open-source software. Google sponsored the project at initial stages and in the year 2005, it acquired the whole company. In September 2008, the first Android-powered device was launched in the market. Android dominates the mobile OS industry because of the long list of features it provides. It's user-friendly, has huge community support, provides a greater extent of customization, and a large number of companies build Android-compatible smartphones. As a result, the market observes a sharp increase in the demand for developing Android mobile applications, and with that companies need smart developers with the right skill set. At first, the purpose of Android was thought of as a mobile operating system. However, with the advancement of code libraries and its popularity among developers of the divergent domain, Android becomes an absolute set of software for all devices like tablets, wearables, set-top boxes, smart TVs, notebooks, etc. Features of Android is a powerful open-source provides immense features and some of these are listed below. Android is an Open Source Project so we can customize the OS based on our requirements. Android supports different types of connectivity for GSM, CDMA, Wi-Fi, Bluetooth, etc. for telephonic conversation or data transfer. Using wifi technology we can pair with other devices while playing games or using other applications. It contains multiple APIs to support location-tracking services such as GPS. We can manage all data storage-related activities by using the file manager It contains a wide range of media supports like AVI, MKV, FLV, MPEG4, etc. to play or record a variety of audio/video. It also supports multimedia hardware control to perform playback or recording using a camera and microphone. Android has an integrated open-source WebKit layout-based web browser to support User Interfaces like HTML5, and CSS3. Android supports multi-tasking means we can run multiple applications at a time and can switch between them. It provides support for virtual reality or 2D/3D Graphics. Android Versions Google first publicly announced Android in November 2007 but was released on 23 SEPTEMBER 2008 to be exact. The first device to bring Android into the market was the HTC Dream with the version Android 1.0. Since then, Google released a lot of android versions such as Apple Pie, Banana Bread, Cupcake, Donut, clair, Froyo, Gingerbread, Jellybeans, Kitkat, Lollipop, marshmallow, Nougat, Oreo, etc. with extra functionalities and new features. The following table shows the version details of android 1.0 1 September 23, 2008 - Android 1.1 2 February 9, 2009 Cupcake Android 1.0 1 September 15, 2009 Eclair Android 1.1 2 February 9, 2009 Cupcake Android 1.1 2 February 9, 2009 Cupcake Android 1.2 February 9, 2009 Cupcake Android 1.2 February 9, 2009 Cupcake Android 1.3 2 February 9, 2009 Cupcake Android 1.3 2 February 9, 2009 Cupcake Android 1.5 3 April 30, 2009 Cupcake 26, 2009 Froyo Android 2.2 - 2.2.3 8 May 20, 2010 Gingerbread Android 4.4 - 4.4.4 19 July 9, 2012 Lollipop Android 5.0 - 5.1 21 - 22 October 17, 2014 Marshmallow Android 6.0 - 6.0.1 23 October 5, 2015 Nougat Android 7.0 - 7.1 24 - 25 August 22, 2016 Oreo Android 11.0 30 September 8, 2020 Snow Cone Android 12.0 - 12.1 31-32 October 4, 2021 Tiramisu Android 13 33 August 15, 2022 Upside Down Cake Android 14 34 October 4, 2023 Vanilla Ice Cream Android Applications Developing the Android Application using Kotlin is preferred by Google, as Kotlin is made an official language for Android Development, which is developed and maintained by JetBrains. Previously before Java is considered the official language for Android Development. Kotlin is made official for Android Development in Google I/O 2017. Advantages of Android Development The Android Development The Android Development The Android Development. Android Application has guidelines from Google, which becomes easier for developers to produce more intuitive user applications. Fragmentation gives more power to Android application in the Google play store is easier when it is compared to other platforms. Disadvantages of Android Development Fragmentation provides a very intuitive approach to user experience but it has some drawbacks, where the development team needs time to adjust to the various screen sizes of mobile smartphones that are now available in the market and invoke the particular features in the application. The Android devices might vary broadly. So the testing of the application becomes more difficult. As the development and testing consume more time, the cost of the application becomes more difficult. As the development and testing consume more time, the cost of the application becomes more difficult. As the development and testing consume more time, the cost of the application becomes more difficult. As the development and testing consume more time, the cost of the application becomes more difficult. Developer A Complete Roadmap Android Development Fundamentals for Beginners Android System Architecture Android Sy Android Studio Tutorial How Does Android App Work? Activity Lifecycle in Android with Example Arctivity Lifecycle in Android What is Context in Android With Example Arctivity State Changes In Android With Example Arctivity Support Libraries Memory Leaks in Android UI Design Android UI Layouts in Android UI Layouts LinearLayout in Kotlin ConstraintLayout in Kotlin ConstraintLayout in Android TextView widget in Android UI Layouts LinearLayout in Kotlin Working With the TextView in Android Autosizing TextView in Android What is Intent in Android? How to Open Camera Through Intents in Android through Intent? Creating Multiple Screen Applications in Android How to Open Camera Through Intent and Display Captured Image in Android? Toasts for Android Studio What is Toast and How to Use it in Android RecyclerView in How to Create RecyclerView with Multiple ViewType in Android? RecyclerView using ListView in Android With Example Stay organized with collections Save and categorize content based on your preferences. The new Samsung Galaxy Z Fold7, Galax users on these exciting form factors. Learn how 16KB memory pages optimize for better performance. Starting Nov 1st, 2025, all new apps and updates to existing apps must support 16KB - check your app's compatibility in Play Console today. Learn how to maximize your revenue and streamline your subscription offerings with the latest Google Play announcements from Google I/O '25, including subscriptions with add-ons, subscriptions benefits, and more. Use Android's unique capabilities to supercharge your app's social and messaging features. Learn how to build and extend engaging media experiences to users across Android's multidevice ecosystem. Take your health Connect. The latest on tools that help you build the highest quality Android news, best practices, live videos, demonstrations, tutorials. [[["Easy to understand","easyToUnderstand","thumb-up"],["Nissing the information I need","missingTheInformationINeed","thumb-down"],["Too complicated / too many steps", "tooComplicatedTooManySteps", "thumb-down"], ["Out of date", "outOfDate", "thumb-down"], ["Other", "otherDown", "thumb-down"], ["Other ", "otherDown", "thumb-down", "thumb-dow that work for the various ways people want to experience the world. Screen readers, sound mufflers, even AR walking guides. Because when it comes to technology, theres no one-size-fits all.for everyone carousel click'} role=group aria-label=Carousel of articles, links or videos with additional information> Sign up to receive tailored communications from Android with news, offers, events and more. Edgar Cervantes / Android and Apples iOS. There used to be a lot more, but now pretty much every major mobile device runs one or the other. This is a site with Android in its name, so we might have visitors wondering: What is Android? Thats a huge question, and well answer it as thoroughly as possible here! Even if youre new to the world of Android this is the perfect place to get up-to-speed on the worlds most popular operating system. What is Android? Here are the basicsDavid Imel / Android AuthorityAndroid is a mobile operating system of phones and tablets worldwide. Additionally, other operating systems natively support Android applications, including Chrome OS and Windows 11. Android is by far the worlds most popular operating system. GlobalStats Statcounter puts Android in the lead in mobile OS market share with a 69.74% as of January 2022. This dwarfs Apples iOS by a significant margin, which is the second-most-popular mobile operating system globally at 29.49%. There are over 2.6 million applications available from the official Google Play Store, but you can also sideload apps from the web. This variety makes these phones very powerful and customizable but also susceptible to viruses and other types of malware. If you don't know what some of these terms mean, don't worry: were going to explain everything in more detail! What is an operating system? Jimmy Westenberg / Android AuthorityIf you ask, What is Android? youre likely to hear back, Its an operating system is ln brief, an operating system is computer software that works to integrate hardware and software resources. It allows for different types of hardware to work together while simultaneously providing a platform for various bits of software and, consequently, other pieces of software and consequently, other pieces of software and other pieces of software and other pieces of software and other pieces of software. The put on a play, youll need to know about smartphone chipsets. If that still confusing, think of the analogy of a stage play. To put on a play, youll need a stage, lights, microphones, and other pieces of software and pieces of softwa pieces of hardware. Youll also need actors, stage crew, ushers, and other workers, which would be analogous to software. In this analogy, the plays director would be similar to an operating system, as he would act as a conduit that instructs everything on how to work together. Without the director, youd just have a ton of unused hardware with a bunch of people running around with no idea what to do. In the case of smartphones, Android acts as the director for the unique hardware in your phone and the apps youve chosen to install. Where youll find Android from phones. While its true that most devices are smartphones, there are plenty of other devices out there with Android on board. It also appears on smartwatches. If you own a watch that runs on Wear OS, that is an Android-based operating system? Thats when someone takes Android and tweaks it to make it something different but still based on the same core code. Android doesn't just appear on phones. There are a whole lot of systems on which you can find it. There is also a TV platform, appropriately called Android Auto, a way for smartphones to integrate with dash systems in cars. Finally, other operating systems out there are not based on Android apps. Recent versions of Chrome OS allow for this. That means nearly all Chromebooks on the market also support Android apps. Starting in late 2021, Windows 11 will also support Android apps. The early beginnings of AndroidThe T-Mobile G1/HTC DreamBelieve it or not, this software was designed for cameras. Andy Rubin and his team developed Android beginning in 2003 by using core code from Linux, another open-source operating system. The idea was to make a universal operating system that all camera companies could use. However, during the later development of the OS, Rubin realized that smartphones were the future. He decided to revamp it as a smartphone operating systems were already dominating the market. Rubin and his team almost stopped development when they ran out of money. Related: Did you know that Windows 10 Mobile (almost) supported Android for about \$50 million in 2005. The Android team worked under Google to develop an operating system that worked well on mobile phones with physical buttons and full QWERTY keyboards. However, the arrival of the iPhone in 2007 forced the team to go back to the drawing board. They revamped Android again to also work with touchscreens. This resulted in the HTC Dream, also known as the T-Mobile G1, the very first commercial Android phone. It had a touch screen and a QWERTY keyboard, as seen above. Since then, there have been thousands of phones, and it is now the most popular operating system in the world. Android is open source, but what does that mean? When something is open source, it means the copyright owner allows its use for any purpose, without any need for financial remuneration. As mentioned earlier, the core code of Android is based on open-source software called Linux. This means that Android, by definition, must also be open source, which means that no one can use it unless the copyright holder in this case, Apple gives permission. If you were to obtain the source code of iOS and release it on any device, Apple could sue you for infringement on its ownership. See also: The best open-source software, this limitation is gone. Instead, the person or company using the software simply needs to abide by a set of rules related to the licensing of that software. Our own Gary Sims explains these rules in the video above. In brief, this means that their new software must also be open source, and they must make the code readily available to anyone who would like to use it. The open-source nature is one of the main reasons it is the most popular operating system in the world. Since anyone can use it for free, its incredibly easy for companies of all sizes to create terrific products without needing to invest in creating their own operating system. This is why you find Android in all manners of electronics from different brands. You might be wondering why Google is OK with giving away this product for free. The explanation is actually pretty simple; some aspects of Android you use on your phone are not open source. As youd imagine, these are some of the most vital apps and service? Mika Baumeister / UnsplashThe core of Android is open source, which we call stock or vanilla. This software lands as part of the Android Open Source Project (AOSP). This is Android in its purest, most basic form. However, the Android you get with almost all smartphones has tons of other software incorporated that is not open source. Most of this software falls under a system called Google Play Services. This brings Google-branded products to Android, including the Google Play Store, Gmail, YouTube, etc.Related: What is Androids Google Play Services? In other words, you can use Google earn money from your products. Android might be open-source, but Google's very lucrative ecosystem certainly isn't. Even though most of the world closely associates Google and Android, there are plenty of Android based devices out there without Google lose not allow most of its products in China. If you go there, you can easily find Android phones without Google. There will be app stores, apps, and all sorts of familiar features, but not from Google apps for Amazons in-house options. Throughout most of the world, though, Google is inseparable from Android. This is by design. Android AuthorityThe answer to this question has a few facets. In brief, Google employees maintain the core experience. They are responsible for adding new features, updating old ones, and ensuring Android follows open-source principles. However, theres more to it than that. Most manufacturers also skin the operating system, which means they create their software that lives on top of Android. This is why the Android you find on a Samsung phone and the software you see on a OnePlus phone function similarly but look very different. Each manufacturer maintains its Android skin. Theres also the question of distributing Android. Obviously, your phone comes with a version of Android when you first take it out of the box. But how does it get updates? Depending on how you bought the phone, an update could need to pass through multiple rungs. First, it needs to come from Google. Then, it needs to get tweaked by your phones manufacturer to make sure the skin still works well. Then, it may need to go through your carrier, because it also usually customizes phones it sells. Also consider: The best launchers available This long chain of events is one of the big reasons Android phones dont see updates as often or for as long as iOS devices. For iPhones, Apple controls everything. There are no skins, and carriers have little ability to interfere with how iOS looks and works. In essence, Apple can push an update to every iPhone around the world quickly and easily with little influence from carriers or other companies. Android phones dont have this luxury; some get close, though. Googles Pixel phones are updated directly from the search giant, have no modified UIs, and are always the first to get newer software versions. Google also promises Android software updates for at least three years after a phone is launched. These devices also get a five-year commitment for security updates. Android versions: A brief historyEdgar Cervantes / Android AuthorityAs of today, there have been 19 versions of Android 12. Android 13 is currently in the works, and we should expect to see its launch around August 2022. Initially, Google named Android after sweet treats. Each treat name happened in alphabetical order, starting with the letter C in 2009. However, Google abandoned this trend in 2019 with Android 10.Here are all the major Android 10.Here are all the major Android 10.Here are all the major (vs. 2.3 through 2.3.7)2011 Honeycomb (vs. 2.0, 2.0.1, and 2.1)2010 Froyo (vs. 2.2 through 2.2.3)2010 Gingerbread (vs. 2.3 through 2.3.7)2011 Honeycomb (vs. 2.6 through 2.3.7)2011 Honeycomb (vs. 2.7 through 2.3.7)2011 Honeycomb (vs. 2.8 through 2.3.7)2011 Honeyco 3.0 through 3.2.6)2011 Ice Cream Sandwich (vs. 4.0 through 4.0.4)2012 Jelly Bean (vs. 4.1 through 4.3.1)2013 KitKat (vs. 4.4 through 6.0.1)2016 Nougat (vs. 7.0 through 7.1.2)2017 Oreo (vs. 8.0 and 8.1)2018 Pie (v. 9.0)2019 Android 102020 Android 112021 Android 12Android 11 introduced several new messaging, privacy, security, and accessibility features. However, it looked mostly the same as Android 10, and Android 9 Pie before it. With Android 12, we saw Google totally revamping how the operating system looks and feels. There are also even more features and controls related to privacy and security. Android 13 wont see that huge of a redesign, but so far, weve seen plenty of great added features. These include improved security functions, better Material You theming, per-app language options, programmable shaders, and more. If you are curious which version of you have on your device, head to Settings > About phone > Android version. Apps: How you can get them Edgar Cervantes / Android Authority Assuming you have a device with Google Play Store. This comes pre-installed on all Google-supported phones, tablets, and other devices. Just open the app and search for whatever game program, media, or other product youre looking for. Many of them are free, but some will require payment. Best apps lists: If you don't have a device with Google Play Services, you likely have access to a different app store. The most common example of this is Amazon devices, which come with a pre-installed Amazon App Store. Another example is modern HUAWEI devices, which will have App Gallery. Consult your devices manufacturer if you are unsure which app store, you can also manually install apps by downloading them from the open web. This is called sideloading. Generally, this practice is safe. However, there is an inherent security risk to sideloading apps as they do not need to meet the safety requirements enacted by app stores. As such, you should only sideload apps from trustworthy sources. See also: How to install third-party apps without the Google Play StoreAndroid vs iOS: The mobile OS battleDavid Imel / Android AuthorityWeve already touched a few times on what makes Googles OS different from Apples iOS. However, we want to point out that the two operating systems have become much more similar than different from Apples iOS. However, we want to point out that the two operating systems have become much more similar. This also didn't look at all similar. This also didn't look at all similar. dichotomy created an Android vs iOS culture that still pervades today. Really, though, there are only a handful of things Android can do that iOS cant (and vice versa). Google and Apple have been cribbing from each other so much over the years that the two operating systems are closer than ever. Even after 10 years, the Android vs iOS war rages on, even though both systems are very similar nowadays. The only distinct difference between the two is how much control Apple has over iOS and how Google doesnt have that same level of control over its mobile OS. For example, it is impossible to sideload apps on an out-of-the-box iPhone, and theres only one app store (the Apple App Store). Apple also tightly controls the kinds of apps developers can make for iPhones. By contrast, weve already discussed how easy it is for you to install Android apps from other stores or even from the open web. Additionally, Google allows you to choose which apps to your keyboard. The advantage to Apples model is that iOS is more uniform, safer, and allows devices to see updates for long periods. The downside, of course, is that the user doesnt have as much say as to what they can do with their device. Are you moving from an iPhone to an Android? We have a guide to help you with the process, and then you can start looking at Androids most remarkable features. It would help if you also played around with the settings to improve your experience. Starting March 27, 2025, we recommend using android-latest-release instead of aosp-main to build and contribute to AOSP. For more information, see Changes to AOSP. Stay organized with collections Save and categorize content based on your preferences. Learn about the features added in Android16 and how to implement them on your devices. Android feature launch flags to make sure only tested code is executed. Read about the Android Open Source Project (AOSP) and learn how to develop, customize, and test your devices. [[["Easy to understand","thumb-up"],["Other","thumb-up"],["Nissing the information I need","missingTheInformationINeed","thumb-down"],["Too complicated / too many steps", "tooComplicatedTooManySteps", "thumb-down"], ["Out of date", "outOfDate", "thumb-down"], ["Other", "otherDown", "thumb-down", "thumb

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