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The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Android Studio is the official IDE for Android development, and includes everything you need to build Android apps. This page lists new features and improvements in the latest version in the stable channel, Android Studio Meerkat Feature Drop. You can download it here or update to it inside Android Studio by clicking Help > Check for updates (Android Studio > Check for updates on macOS) This is a stable release of Android Studio. Note that patches might contain new minor features and bug fixes. See Android Studio release names to understand Android Studio version naming. To see what's been fixed in this version of Android Studio, see the closed issues. To view the release notes for older versions of Android Studio, see Past releases. For early access to upcoming features and improvements, see the Preview builds of Android Studio. If you encounter problems in Android Studio, check the Known issues or Troubleshoot page. Android Gradle plugin and Android Studio compatibility The Android Studio build system is based on Gradle, and the Android Gradle plugin (AGP) adds several features that are specific to building Android apps. The following table lists which version of AGP is required for each version of Android Studio. If your project is not supported by a specific version of Android Studio, you can still open and update your project using an older version of Android Studio. Android Studio version Required AGP version Narwhal Feature Drop | 2025.1.2 4.0-8.12 Narwhal | 2025.1.1 3.2-8.11 Meerkat Feature Drop | 2024.3.2 3.2-8.10 Meerkat | 2024.3.1 3.2-8.9 Ladybug Feature Drop | 2024.2.2 3.2-8.8 Ladybug | 2024.2.1 3.2-8.7 Koala Feature Drop | 2024.1.2 3.2-8.6 Koala | 2024.1.1 3.2-8.5 Jellyfish | 2023.3.1 3.2-8.4 Iguana | 2023.2.1 3.2-8.3 Hedgehog | 2023.1.1 3.2-8.2 Giraffe | 2022.3.1 3.2-8.1 Flamingo | 2022.2.1 3.2-8.0 Android Studio version Required AGP version Electric Eel | 2022.1.1 3.2-7.4 Dolphin | 2021.3.1 3.2-7.3 Chipmunk | 2021.2.1 3.2-7.2 Bumblebee | 2021.1.1 3.2-7.1 Arctic Fox | 2020.3.1 3.1-7.0 For information on what’s new in the Android Gradle plugin, see the Android Gradle plugin release notes. Minimum versions of tools for Android API level There are minimum versions of Android Studio and AGP that support a specific API level. Using lower versions of Android Studio or AGP than required by your project's targetSdk or compileSdk could lead to unexpected issues. We recommend using the latest preview version of Android Studio and AGP to work on projects that target preview versions of the Android OS. You can install preview versions of Android Studio alongside a stable version. The minimum versions of Android Studio and AGP are as follows: API level Minimum Android Studio version Minimum AGP version 36.0 Meerkat | 2024.3.1 Patch 1 8.9.1 35 Koala Feature Drop | 2024.2.1 8.6.0 34 Hedgehog | 2023.1.1 8.1.1 33 Flamingo | 2022.2.1 7.2 Android Studio and Cloud services compatibility Android Studio includes service integrations that help you and your team make faster progress as you develop, release, and maintain Android apps. This includes Cloud services such as Gemini in Android Studio, Play Vitals, and Firebase Crashlytics. Cloud services are only available on the latest stable channel version of Android Studio, the three most recent previous major versions, and patches associated with those versions. When a version falls outside of that compatibility window, service integrations become disabled and you are required to update Android Studio. This Cloud services compatibility policy is being announced with the stable channel release of Android Studio Meerkat Feature Drop. Enforcement will begin with the stable channel release of Android Studio Narwhal Feature Drop, which will fall out of the compatibility window in Q2 of 2026. Android Studio versions that are currently compatible with Cloud services As of the stable channel release of Android Studio Meerkat Feature Drop, all versions of Studio are compatible with Cloud services. Enforcement will begin with Android Studio Narwhal Feature Drop. The following are new features in Android Studio Meerkat Feature Drop. Patch releases The following is a list of the patch releases in Android Studio Meerkat Feature Drop and Android Gradle plugin 8.10. Android Studio Meerkat Feature Drop | 2024.3.2 Patch 2 and AGP 8.10.1 (May 2025) This minor update includes these bug fixes. Themed icon support To ensure your app icon looks its best when users enable "Theme icons" in the Android 13 Developer Options, Android Studio Meerkat Feature Drop | 2024.3.2 Canary 1 now lets you preview how your icon will look with the new theming algorithm. For full control over your icon's appearance, you should provide your own themed icon by adding a custom monochromatic layer. But even if you haven't done that yet, you can still use this new preview tool to get an idea of how your icon will look and identify any potential color contrast issues. Themed app icon preview Android Studio config directories changing Starting with Meerkat Feature Drop Canary 2, Android Studio uses the same user configurations across canary, beta, and stable releases. As a result, "Preview" has been dropped from the configuration directory path for Android Studio in canary and beta releases. Additionally, to let feature drop releases run simultaneously with platform update releases, we've added a micro version to the config directory path. For example, AndroidStudio2024.3.2 is used instead of AndroidStudio2024.3. See Export and import IDE settings if you'd like to import configurations manually. Prompt Library Gemini in Android Studio's new Prompt Library feature enhances productivity by allowing you to save and manage frequently used prompts. Access the Prompt Library from Settings > Gemini > Prompt Library to store and retrieve prompts. You can store prompts at the IDE level or the project level: IDE-level prompts are private to yourself and can be used across multiple projects. Project-level prompts can be shared among teammates working on the same project. To share prompts across the team you must add the .idea folder to the version control system. You can also right-click on a prompt in chat to save it for later use. To apply a saved prompt, right-click in the Editor and navigate to Gemini > Prompt Library to apply the prompt. This streamlined workflow eliminates the need to retype commonly used prompts, saving you time and effort. Motion editor deprecation At Android Studio, we're continuously striving to provide developers with the most efficient and modern tools for building exceptional Android applications. As part of this commitment, we're deprecating the Motion Editor in Android Studio Meerkat Feature Drop. For some time, the Motion Editor has served as a valuable tool for creating animations built with motion layout. However, with the rapid evolution of Jetpack Compose, we've recognized the immense potential of this modern UI toolkit for animation development. Compose offers a declarative and intuitive approach, simplifying the creation of smooth and engaging animations. Jetpack Compose provides several key advantages: Modern and declarative:Compose's declarative syntax makes animation code more readable and maintainable. Integrated animation tools: Compose Animation Preview offers a streamlined workflow for creating and testing animations directly within your Compose code. Future-proof development: By focusing on Compose, we're investing in the future of Android UI development. Our goal is to provide a unified and powerful animation experience within the Compose ecosystem. While the Motion Editor has been a valuable tool, we believe that Compose represents the future of Android animation. We want to focus our efforts on making Compose as good as it can be. We encourage you to learn more about building animations with Jetpack Compose and Compose animation tools. What is the latest Android version? Android 16 explained. When is the Android 16 release date? How do I update to Android 16? What are the new features in Android 16? What’s the difference between Android 15 and 16? More possibilities with Android 16. Stay organized with collections Save and categorize content based on your preferences. The official IDE for Android app development now accelerates your productivity with Gemini in Android Studio, your AI-powered coding companion. Download Android Studio Meerkat Feature Drop Read release notes Create dynamic layouts with Jetpack Compose. Then preview your layouts on any screen size and inspect Compose animations using the built-in inspection tools. 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More about the APK Analyzer Learn how to set up your app development environment, configure Android Studio, and start writing an Android app. Platform Android Studio package Size SHA-256 checksum Windows(64-bit) android-studio-2024.3.2.15-windows.exe Recommended 1.3 GB da717086ed055c9d91658fb973336d2973244874dd333c863e0236f98b6660d1 Windows(64-bit) android-studio-2024.3.2.15-windows.zip No .exe installer 1.3 GB 93e639a4297aa576faae9f93b727a368dfd7126da921797031259aab7b8d1372 Mac(64-bit) android-studio-2024.3.2.15-mac.dmg 1.4 GB 956ebbe6d0f16fb661cabbb9ede6181725b8f152c211ba70e7b5d4c0203fa6dc Mac(64-bit, ARM) android-studio-2024.3.2.15-mac_arm.dmg 1.3 GB 925760e652db05b2c53bfdda4e5e26a2ae1cfb9227e26d1d617e1ffb7b830b34 Linux(64-bit) android-studio-2024.3.2.15-linux.tar.gz 1.4 GB 2fcb3c975fd0e002441af7734cb2eef6c459964372443310bcaf26a195ce7881 ChromeOS android-studio-2024.3.2.15-cros.deb 1.1 GB 62f62d2295aec2286d8bd09b301aa8648a4e3c7d6d9beab7bc4355b94bbdcfa7 More downloads are available in the download archives. 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July 27, 2021 [[["Easy to understand","easyToUnderstand","thumb-up"],["Solved my problem","solvedMyProblem","thumb-up"],["Other","otherUp","thumb-up"]],[["Missing the information I need","missingTheInformationINeed","thumb-down"],["Too complicated / too many steps","tooComplicatedTooManySteps","thumb-down"],["Out of date","outOfDate","thumb-down"],["Samples / code issue","samplesCodeIssue","thumb-down"],["Other","otherDown","thumb-down"]],[],[],[]] Integrated development environment for the Android platform Android StudioScreenshot of Android Studio LadybugDeveloper(s)Google, JetBrainsStable release2024.3.2[1] / 6 May 2025; 42 days ago (6 May 2025)Preview release2025.1.2 Canary 4[2] / 6 June 2025; 11 days ago (6 June 2025) Repositoryandroid.googlesource.com/platform/tools/, cs.android.com/android-studioWritten inJava, Kotlin and C++Operating systemWindows, macOS, Linux (including ChromeOS)[3]Size8.1 to 9.5 GB[3]TypeIntegrated development environment (IDE)LicenseBinaries: Freeware,[4] Source code:[5][6] Apache License (except SDK updates with proprietary license)[citation needed]Websitedeveloper.android.com/studio Android Studio is the official[7] integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development.[8] This is available for download on Windows, macOS and Linux based operating systems.[9] It is a replacement for the Eclipse Android Development Tools (E-ADT) as the primary IDE for native (local) Android application development. Android Studio is licensed under the Apache license but it also ships with some SDK updates that are under a non-free license, making it not an open source software. [10] Android Studio was announced on May 16, 2013, at the Google I/O conference. It was in early access preview stage starting from version 0.1 in May 2013, then entered beta stage starting from version 0.8 which was released in June 2014.[11] The first stable build was released in December 2014, starting from version 1.0.[12] At the end of 2015, Google dropped support for Eclipse ADT, making Android Studio the only officially supported IDE for Android development.[13] On May 7, 2019, Kotlin replaced Java as Google's preferred language for Android app development.[14] Java is still supported, as is C++.[15] This section needs to be updated. The reason given is: Android Studio now supports newer versions of Java. Please help update this article to reflect recent events or newly available information. (May 2024) Plugin Ecosystem and Extensibility Android Studio's architecture is designed to be highly extensible, allowing developers to tailor the IDE to their specific needs through a robust plugin ecosystem. Plugins can introduce new functionalities, integrate external tools, and enhance existing features, thereby streamlining the development process. Built-in Plugins: Essential tools integrated into Android Studio, such as Android Support, Kotlin Support, and Git Integration. Third-Party Plugins: Popular community-driven extensions like Firebase Assistant, ButterKnife Zelezny, and SQLDelight, which expand functionality. Developing Custom Plugins: The process of building new plugins using the IntelliJ Platform SDK and Gradle plugins for automation and customization. Managing Plugins: Best practices for installing, updating, and optimizing plugins to maintain performance and compatibility. Out of the box, Android Studio includes a set of built-in plugins that support essential development tasks: Android Support: Provides tools and integrations specific to Android development, including project templates, wizards, and the Android SDK manager.[16] Kotlin Support: Since Kotlin became Google's preferred language for Android app development in 2019, Android Studio has integrated comprehensive support for Kotlin, facilitating seamless development experiences.[17] Git Integration: Offers version control support, enabling developers to manage code repositories directly within the IDE.[16] Beyond the built-in options, developers can access a vast array of third-party plugins to extend Android Studio's capabilities: Firebase Assistant: Simplifies the process of adding Firebase services to an app, such as analytics, authentication, and cloud messaging.[16] ButterKnife Zelezny: Automates the generation of view bindings for Android's ButterKnife library, reducing boilerplate code. SQLDelight: Assists in generating type-safe APIs from SQL statements, streamlining database interactions within Android applications. These plugins, among many others, are available through the JetBrains Plugin Repository and can be easily installed via Android Studio's plugin manager.[16] For specialized requirements, developers have the option to create custom plugins: IntelliJ Platform SDK: Android Studio is built upon JetBrains' IntelliJ IDEA, and developers can utilize the IntelliJ Platform SDK to develop plugins that extend the IDE's functionality. [18] Gradle Plugins: Custom Gradle plugins can automate build processes, manage dependencies, and perform other build-related tasks, enhancing the efficiency of project workflows. Comprehensive documentation and community resources are available to guide developers through the process of plugin development, ensuring that even complex extensions can be implemented effectively. [18] Effective management of plugins is crucial to maintain an optimal development environment: Installation and updates: Plugins can be installed and updated directly through Android Studio's plugin manager, accessible via the settings menu. [16] Compatibility considerations: It's important to ensure that plugins are compatible with the specific version of Android Studio in use to prevent potential conflicts or issues. [16] Performance impact: While plugins add valuable features, an excessive number can lead to increased resource consumption. Regularly reviewing and disabling unnecessary plugins can help maintain IDE performance. By leveraging the plugin ecosystem, developers can customize Android Studio to align with their workflows, integrate preferred tools, and enhance productivity, making it a versatile environment for Android application development. The following features are provided in the current stable version:[19][20] Gradle-based build support Android-specific refactoring and quick fixes Lint tools to catch performance, usability, version compatibility and other problems ProGuard integration and app-signing capabilities Template-based wizards to create common Android designs and components A rich layout editor that allows users to drag-and-drop UI components, option to preview layouts on multiple screen configurations[21] Support for building Android Wear apps Built-in support for Google Cloud Platform, that enables integration with Firebase Cloud Messaging (Earlier 'Google Cloud Messaging') and Google App Engine[22] Android Virtual Device (Emulator) to run and debug apps in the Android studio. Android Studio supports all the same programming languages of IntelliJ (and CLion) e.g. Java, C++, and with more extensions, such as Go;[23] and Android Studio 3.0 or later supports Kotlin,[24] and "Android Studio includes support for using a number of Java 11+ APIs without requiring a minimum API level for your app".[25] External projects backport some Java 9 features.[26] While IntelliJ states that Android Studio supports all released Java versions, and Java 12, it's not clear to what level Android Studio supports Java versions up to Java 12 (the documentation mentions partial Java 8 support). At the very least some new language features up to Java 12 are also usable in Android.[27] Once an app has been compiled with Android Studio, it can be published on the Google Play Store. The application has to be in line with the Google Play Store developer content policy. The following is a list of Android Studio's major releases:[28] Version Release date 1.0 December 2014 1.1 February 2015 1.2 April 2015 1.3 July 2015 1.4 September 2015 1.5 November 2015 2.0 April 2016 2.1 April 2016 2.2 September 2016 2.3 March 2017 3.0 October 2017 3.1 March 2018 3.2 September 2018 3.3 January 2019 3.4 April 2019[29] 3.5 August 2019 3.6 February 2020 4.0 May 2020 4.1 Oct 2020[30] 4.2 May 2021[31] Arctic Fox (2020.3.1) July 2021[32] Bumblebee (2021.1.1) January 2022[33] Chipmunk (2021.2.1) May 2022[34] Dolphin (2021.3.1) September 2022[35] Electric Eel (2022.1.1) January 2023[36] Flamingo (2022.2.1) April 2023[37] Giraffe (2022.3.1) July 2023[38] Hedgehog (2023.1.1) November 2023[39] Iguana (2023.2.1) February 2024[40] Jellyfish (2023.3.1) April 2024[41] Koala (2024.1.1) June 2024[42] Koala Feature Drop (2024.1.2) August 2024[43] Ladybug (2024.2.1) October 2024[44] Meerkat (2024.3.1) March 2025[45] Narwhal (2025.1.1) TBD Minimum system requirements for Android Studio[46] Microsoft Windows macOS Linux Operating System Version Microsoft Windows 10 (64-bit) macOS 12 Any 64-bit Linux distribution that supports GNOME, KDE, or Unity; GNU C Library (glibc) 2.31 or later Required RAM 8 GB Free space 8 GB Screen resolution 1280 x 800 CPU Virtualization support Required (Intel VT-x or AMD-V, enabled in BIOS). CPU microarchitecture after 2017. Intel 8th Gen Core i5 / AMD Zen Ryzen (e.g., Intel i5-8xxx, Ryzen 1xxx). These features includes requirements for IDE + Android SDK + Android Emulator.[46] Windows: x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor; Mac OS: ARM-based chips, or 2nd generation Intel Core or newer with support for Hypervisor.Framework; Linux: x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD processor with support for AMD Virtualization (AMD-V) and SSSE3; Windows: CPU with UG (unrestricted guest) support; Intel Hardware Accelerated Execution Manager (HAXM) 6.2.1 or later (HAXM 7.2.0 or later recommended). The use of hardware acceleration has additional requirements on Windows and Linux: Intel processor on Windows or Linux: Intel processor with support for Intel VT-x, Intel EM64T (Intel 64), and Execute Disable (XD) Bit functionality; AMD processor on Linux: AMD processor with support for AMD Virtualization (AMD-V) and Supplemental Streaming SIMD Extensions 3 (SSSE3); AMD processor on Windows: Android Studio 3.2 or higher and Windows 10 April 2018 release or higher for Windows Hypervisor Platform (WHPX) functionality. For an attached webcam to work with Android 8.1 (API level 27) and higher system images, it must have the capability to capture 720p frames.[47] ^ "Android Studio Meerkat Feature Drop | 2024.3.2 now available". May 6, 2025. ^ . June 6, 2025 . {{cite web}}: Missing or empty |title= (help) ^ a b "Download Options". developer.android.com. Archived from the original on April 26, 2018. Retrieved November 16, 2021. ^ "Terms and Conditions". developer.android.com. 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