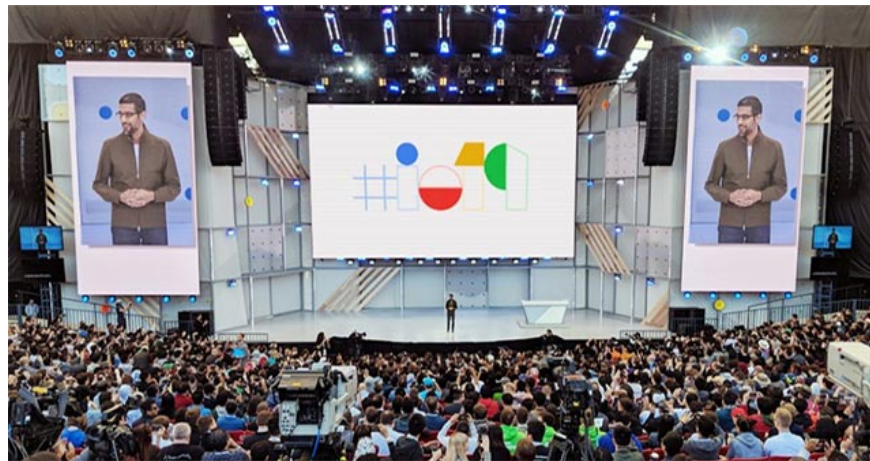


Google launched Android Q Beta 3 with many notable additions

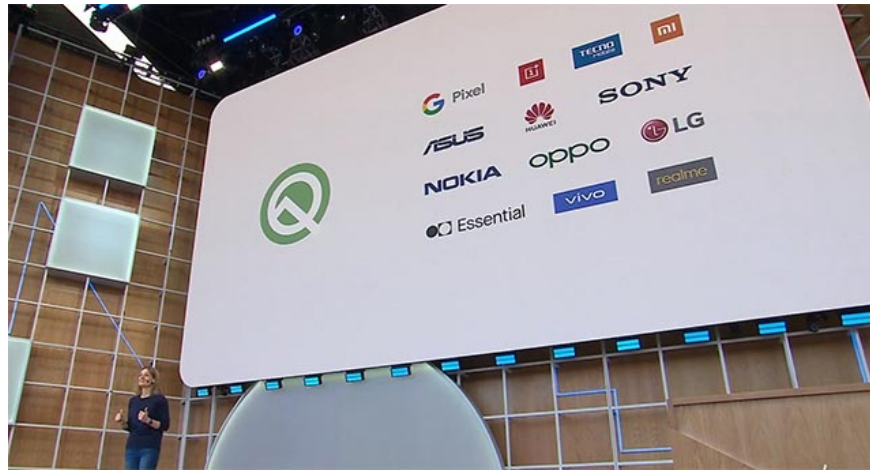
Immediately after the announcement of impressive news, there are up to 2.5 billion Android devices operating worldwide at the end of the 2019 I / O developer conference taking place in Mountain View today, Google today. has also officially released the third Android Q beta version.

Immediately after the announcement of impressive news, there are up to 2.5 billion Android devices operating worldwide at the end of the 2019 I / O developer conference taking place in Mountain View today, Google today. has also officially released the third Android Q beta version. If you are an Android developer, this is a third preview of Android Q, and you can start testing your applications with this release by downloading it from developer.android.com/preview.



1. Top Android apps are free and discounted (May 8, 2019)

This preview includes a new version SDK with system images (system images) for Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL and official Android emulators (Android Emulator). If you've ever signed up for a beta and got Android Q Beta 1 and Beta 2 on your Pixel device, you'll automatically get an update to Beta 3. Google says it will also put Android Q Beta 3 on Third-party phone models follow a limited list, including a total of 21 devices from 13 different brands, namely: Asus ZenFone 5Z, Essential Phone, Huawei Mate 20 Pro, LG G8, Nokia 8.1, OnePlus 6T, Oppo Reno, Realme 3 Pro, Sony Xperia XZ3, Tecno Spark 3 Pro, Vivo X27, Vivo Nex S, Vivo Nex A, Xiaomi Mi 9, Xiaomi Mi Mix 3 5G, Google Pixel 3, Google Pixel 3 XL, Google Pixel 2, Google Pixel 2 XL, Google Pixel, and Google Pixel XL.



Earlier Google released Android Q Beta 1 in March, Android Q Beta 2 in April and is now Android Q Beta 5 in May. So can see the update speed for the beta versions of Android Q this year is much faster than every year, an average of 1 new beta is released every 3 weeks - something unprecedented. With such a fast update rate, there will definitely be an error, you can send feedback to Google if you encounter any problems with the file platform, application compatibility and problems with Third-party SDK.

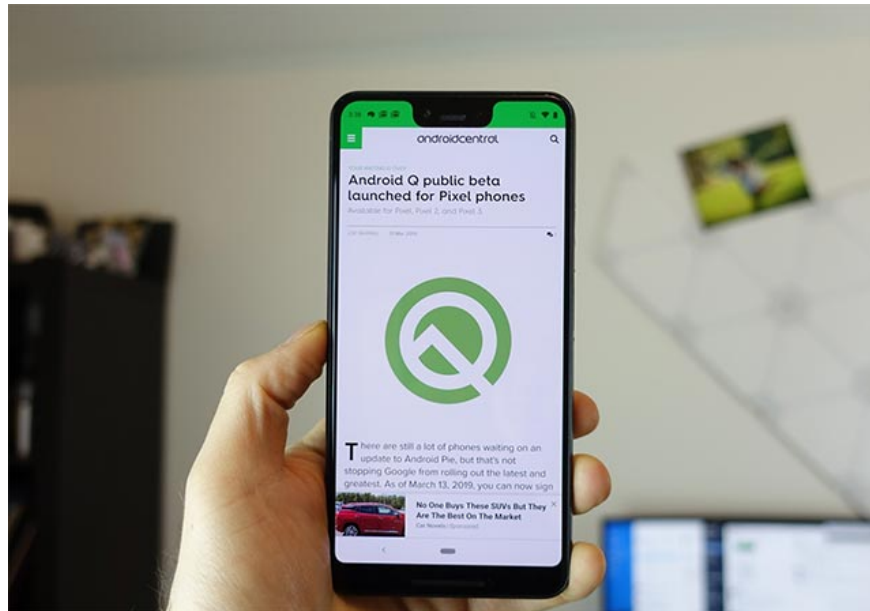
Beta 1 released 2 months ago offers many additional security and privacy features, enhancements to the usability of the fold screen, new connection API, media codec (media codec), one The number of features supported for cameras, NNAPI extensions, support for Vulkan 1.1 and improved application startup speed.

1. The strongest Android 10 smartphone chart as of April 2019

Android Q Beta 3

1. Featured features in Beta 3
 1. Privacy improvements
 2. Improved security
 3. Project Mainline
 4. Proposed actions in the notification area
 5. Dark theme (dark theme)
 6. Navigation gestures
 7. Other outstanding features
 8. Beta release schedule

Featured features in Beta 3

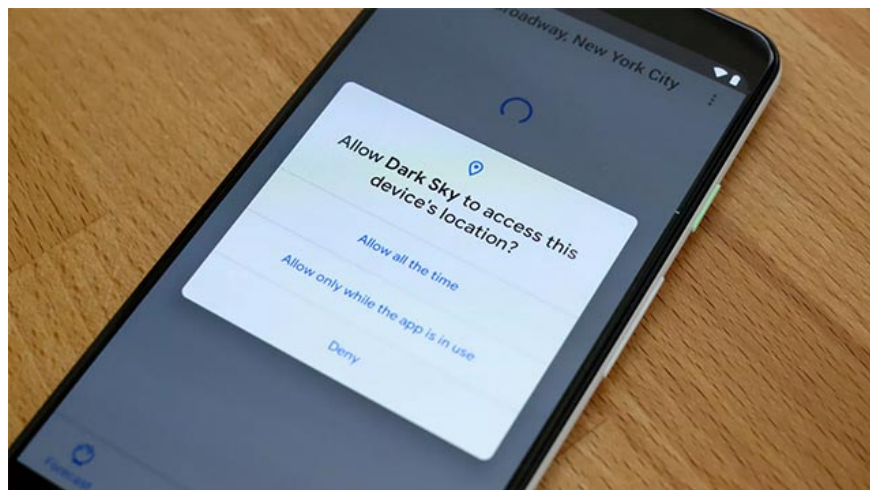


Up to the present time, Google has brought in more than 50 features and improved around the privacy and security of users through the released beta. For this Beta 3 version, Mountain View emphasizes that Android Q will focus more on innovation, security and privacy as well as digital benefits. Besides, another notable information is that Android Q will become the first mobile operating system in the world to support 5G. This is the result of a 5G support project for Android Q between Qualcomm and Google. Talking about future technologies, Android Q Beta 3 will continue to improve support for folding screen devices as introduced in the following video:

Besides, there are some other remarkable advances such as:

Privacy improvements

Android Q gives users greater control over privacy by being able to manage access activities as well as receive location data for each application. Usually applications will require users to grant access to location information, but with Android Q, you can choose when to allow the application to access your location - such as authorization only. When the application is being used, grant permission at all times or without authorization.



Another important note is that Android Q will restrict the launch of applications from the background, to prevent unexpected applications from starting in the background and taking over the processing center of the system.

To prevent unauthorized tracking, Android Q will restrict access to device codes that cannot be reset, including the device's IMEI, serial number and similar identifiers. Besides, the MAC address will also be randomly placed when the device is connected to many different Wi-Fi networks and connection APIs after location access.

1. List of the first smartphones to receive Android Q updates

Improved security

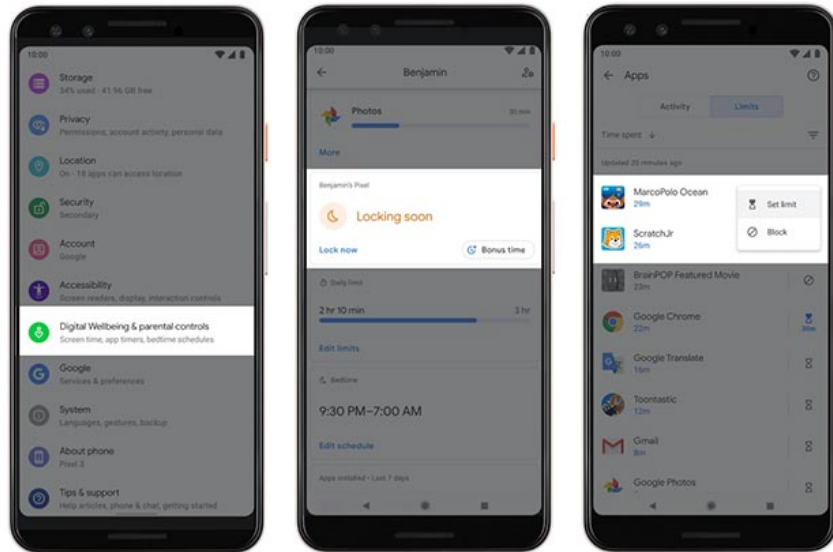
Google has expanded its BiometricPrompt authentication framework to further support biometric features at the system level, and at the same time they have added some advanced support features for authentication methods. Dynamic as face detection. Another new feature in Android Q is the emergence of support features for TLS 1.3, allowing the deployment of TLS 1.3 by default for all TLS connections made via Android's TLS stack - Conscrypt - any What is the target API level.



1. Google opens the Android Automotive OS source for application developers

Project Mainline

Besides, Google is currently deploying both Project Mainline - a new approach to keeping Android devices up to date with all changes in distribution code via Google Play. Google said this feature will allow users to update each specific component of Android to apply new changes, instead of having to update the entire system as before.



Basically, Project Mainline will carry out the 'module' of the updated versions into specific download packages, which will be downloaded the next time the phone starts. Google said Project Mainline's source code is currently in the Open Source Project Android project, and updates will be fully open when they are officially released.

All devices running Android Q and above will be able to receive Project Mainline.

1. Android releases updates via Google Play Store?

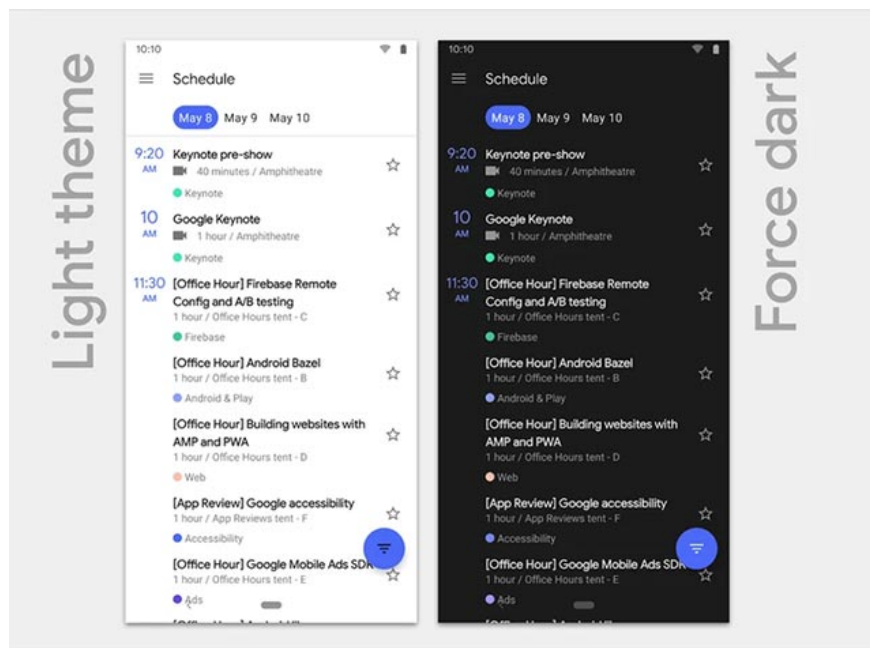
Proposed actions in the notification area

Starting with Beta 3, Google will allow smart notifications and actions - both generated by the system and provided by the developer - directly inserted into the notification area by default.

Android Q suggestions are provided by an AI service on the device - similar to Google's TextClassifier. Processing will take place on the device and because the actions will be proposed based on the TextClassifier service. These actions can take advantage of new capabilities that users have added in Android Q, such as language detection, and can be used to create system-provided notifications.

1. Microsoft now allows answering and managing Android text messages in Windows 10

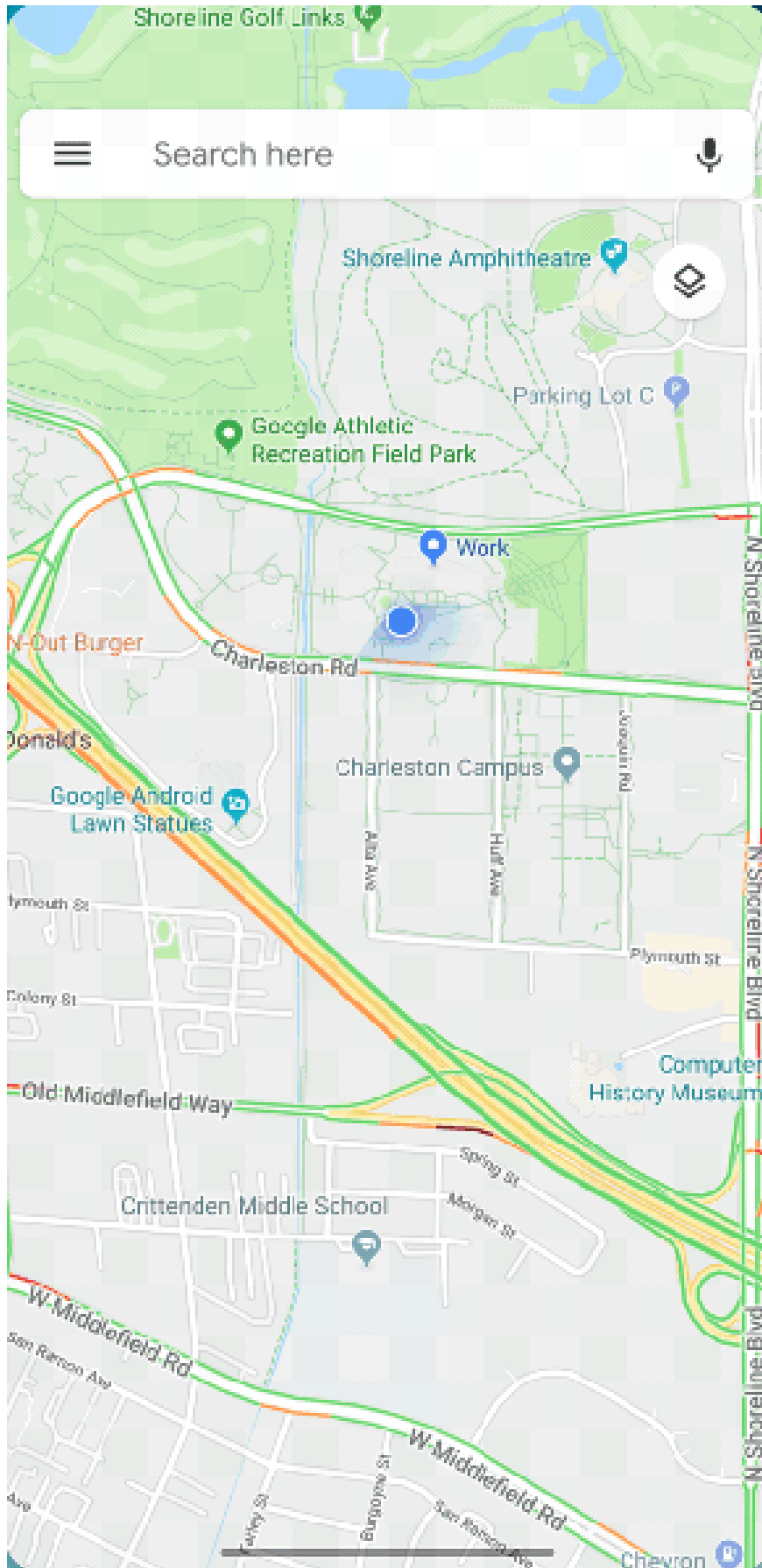
Dark theme (dark theme)



Starting with Android Q Beta 3, there will be a dark theme that can be applied across the system and activated by navigating to Settings> Display, using the installation option. Quick (Quick Settings) new or turn on the battery saver (Battery Saver). This theme will fundamentally change the system user interface to dark colors and can be compatible with the dark theme of supported applications. Applications can build their own dark theme or can opt for the new Force Dark feature, allowing the operating system to create a dark version of the theme that the application is currently active.

1. List of applications, the game is nominated for the "Google Play Award 2019" award

Navigation gestures



Android Q will introduce a new gesture navigation mode, which helps to hide the navigation bar area and allows apps and games to display their content in full screen mode. This mode will retain the familiar Back, Home and navigation features, but will be done via edge gestures instead of using the same button as before.

Users can switch to using gesture navigation in Settings> System> Gestures (Settings> System> Gestures). There are currently two table gestures: Quickly swiping up from the bottom of the screen will take the user to the main screen, holding and slowly swiping up from the bottom of the screen will display the applications that are launching. Swiping from the left or right edge of the screen will be a back feature.

1. Kotlin: Things to know about Android's latest development language

Other outstanding features

Android Beta 3 will come with the Live Caption feature, which automatically creates subtitles for media files like audio and video playing on the system. There is also another interesting feature is Smart Reply, which is integrated into Android Q's notification system, which helps predict the action you will take when you receive a notification (such as when someone sends you. an address, you can open it in Google Maps).

1. Google launched a feature that directly translates any video and audio on Android Q

Besides, Android Q will have a new mode called Focus, which allows you to choose applications that make you feel distracted and turn off those applications. At the same time, Google is also turning Family Link into a part of every Android device and adding features like extra time and the ability to set a time limit for each application.

Beta release schedule

The goal of this third beta is the same as the first two versions, which are to bring new builds sooner to users and developers so they have more time to discover new features and APIs for For each application, check compatibility and provide needed feedback.



Last year, there were a total of 5 preview versions for developers (4 beta) released. This year, Google is planning to release all six beta versions. Up to now, 3 beta versions have been delivered to users. The schedule for preview versions in 2019 is as follows:

1. March: Beta 1 (first release, beta)
2. April: Beta 2 (additional updates, beta)
3. May: Beta 3 (additional updates, beta)
4. June: Beta 4 (Final API and Official SDK, beta)
5. Beta 5 (released for testing)
6. Beta 6 (released for final testing)
7. Q3: The final release for AOSP and the general ecosystem

Google is asking developers to tailor their apps so that they can be better compatible with Android Q to give users a seamless and important transition as a good experience when they lift. Level up this latest Android version. If you are an Android application developer, first install your current application from Google Play on a device or emulator running Beta 3, work through user streams and handle it to ensure The application is compatible with Android Q. behavioral changes. If you find a problem, fix them in the current application without changing the target level (navigation instructions, checklists). privacy). Once you have completed the modification process, update the TargetSdkVersion of the application to 'Q'.

Hope the information in the post useful to you!

You finished reading the article "**Google launched Android Q Beta 3 with many notable additions**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.