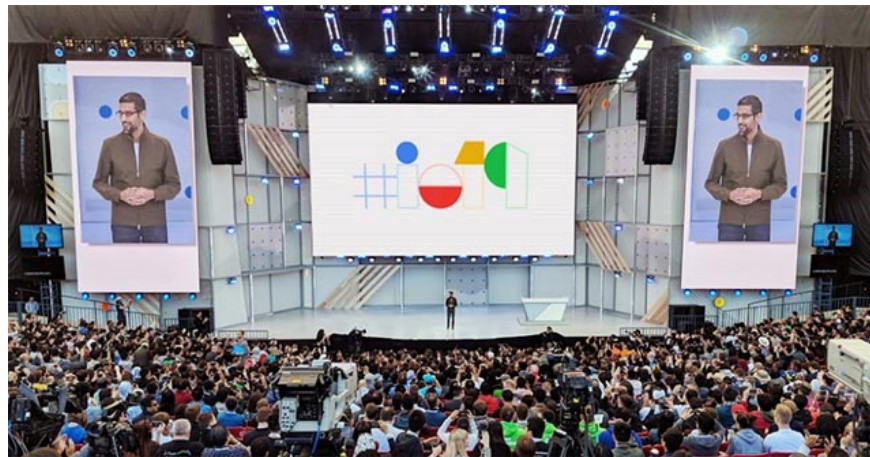


Summarize all the most important notifications that Google offers at I / O 2019

Just like the tradition of the previous years, at this year's event, Google has made countless important announcements about the launch of a range of hardware and software products as well as important upgrade packages that will be released in the near future.

Today was the last day of the 2019 I / O - one of Google's biggest technology events of the year. Just like the tradition of the previous years, at this year's event, Google has made countless important announcements about the launch of a range of hardware and software products as well as important upgrade packages that will be released in the near future, including the introduction of two new low-cost Pixel phones, details of Android Q, the new smart-screen product called Nest Hub Max, are available. Important news on Google Lens, some additional improvements to virtual assistant Google Assistant, and many other notable news.



1. Google I / O 2018: Google introduces a host of new features related to Android P, Assistant Assistant, Gmail

As expected by observers, privacy issues and especially artificial intelligence still play a key role in this year's conference. Google executives are constantly repeating the new security features integrated into their products, and also spend some time talking about the great uses of AI in each product. specific products.

Like every year, I / O 2019 did not disappoint us with a series of extremely remarkable technology news. In order for you to not miss any information, now, we will list all the most important notifications that Google offers at I / O 2019!

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

Google I / O 2019

1. Google Pixel 3a and Pixel 3a XL
2. Android Q and some noticeable improvements
3. Nest Hub Max
4. Noticeable improvements for Google Assistant
5. Featured updates for the AI system
6. Updates for Google Lens
7. Google Duplex on the web platform
8. Improvements to accessibility features
9. Security features
10. Virtual reality interactive technology in Google Search

Google Pixel 3a and Pixel 3a XL



In a recent quarterly earnings analysis meeting by Google, CEO Sundar Pichai revealed that sales for the company's smartphone segment are showing signs of continuous decline compared to the original forecast. In it, the CEO said that the great competitive pressure in high-end smartphone segment is one of the root causes of the problem, and perhaps that's why at the developer conference I / O this year, Google had to first launch two new phones in the mid-range segment, affordable, as a way to stimulate demand for its top services, which is 2 units. : Pixel 3a and Pixel 3a XL. Due to the valuation in the mid-range segment, the selling price of these two products will certainly be much cheaper than the 'senior'. The price for Pixel 3a will start at \$ 399 (about 9.3 million) and with Pixel 3a XL is from 479 dollars (about 11 million). However, it is not so that we can underestimate these 2 models. Both Pixel 3a and Pixel 3a XL possess strengths for other competitors in the same segment, such as the powerful processor chip and especially the original 'calf' camera cluster from Pixel 3 and Pixel 3. Luxury XL (Pixel 3 and Pixel 3 XL are rated as the best camera in the world at the moment), including support for 'money-eating' features such as night-vision low-light mode Night Sight and portrait mode delete fonts. Besides, the overall design between these two models is very similar.



To cut costs, Google will not equip Pixel 3a and Pixel 3a XL with the ability to support face recognition, wireless charging technology, and some other small features.

1. Google officially launched 2 mid-range smartphones Pixel 3a and Pixel 3a XL

Android Q and some noticeable improvements

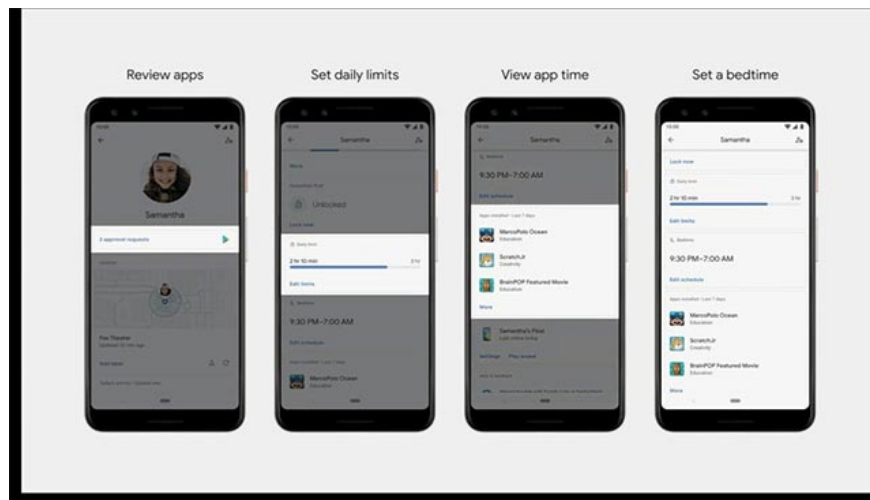
Immediately after announcing impressive information that there are 2.5 billion Android devices operating worldwide, Google also spent a lot of time talking about Android Q, one of its most important products in in 2019. On this latest Android version, Google introduced a number of changing features as well as software-critical updates, including how the operating system will be optimized for support. Better for smartphone folding screens, dark theme, and a few other small features.



1. Google launched Android Q Beta 3 with many notable additions

In addition, privacy is also a factor Google is particularly important in this version of Android with giving users the ability to control more privacy. Specifically, Android Q gives users greater control over privacy by being able to manage access activities as well as receive location data for each application. The system will prompt when an application is actively using your location, and will also give users more control over how they want to share their location with applications, The term is only granted when the application is being used, authorized at all times or not authorized.

Managing screen time is also a big topic in Android Q. The software will include a new Focus Mode that allows you to temporarily disable applications that you think are distracting. This feature will also be released on phones running Android Q and Android P this fall.



In addition, another useful feature is Parental Control will also be integrated right in the settings of Android Q. You will be able to impose a limit on the time to use the screen every day, see the usage time of each application. Use and set bedtime. You can also set a time limit for specific applications and provide additional time (bonus time) if necessary.

Security updates will also be pushed faster to users by Google as an OTA update in Android Q, similar to how apps update seamlessly in the background.

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

Nest Hub Max

At the I / O this year, Google announced a new version of the Home Hub smart speaker system, called Nest Hub Max, with many significant improvements compared to the previous version. In addition, the company is rebranding all of its smart home products in the name of Nest product lines.



The new Nest Hub Max will cost \$ 229 when launched later this summer. The device has a 10-inch screen, stereo speaker system (stereo) and unlike its predecessor, it will have an integrated camera. With the appearance of this camera, Nest Hub Max will be included with the family security features that Home Hub currently does not have. At the same time, users can also 'train' the device to identify their faces, allowing Google Assistant to personalize the information it displays. It can be considered that Nest Hub Max is a perfect combination of smart screen, smart camera and entertainment audio system suitable for a compact device.

Noticeable improvements for Google Assistant

This year, Google spent a lot of time to introduce the progress they have made to Google Assistant, and gives the reason why this tool has become a smart voice assistant capable of delivering a better experience than Alexa or Siri. Later this year, Google will launch the next generation version of Google Assistant, faster and smarter for Pixel phones. Part of the reason is that Google was able to shrink the size of machine learning models from 100GB to only 0.5GB, allowing the system to provide much faster information.

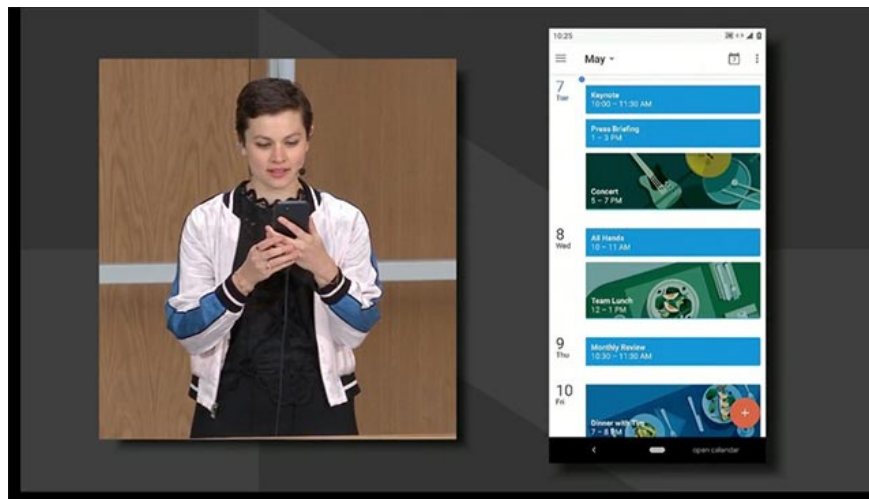


1. Is Google Assistant or Cortana a better virtual assistant?

Google demonstrated this through a demo in which an employee asked Google Assistant quick questions about some common problems such as how to launch the application or how to set a timer. This employee was able to reply to text messages with Google Assistant without having to say the trigger phrase.

Another interesting feature on the Google Assistant is Pick For You, a function that allows the virtual assistant to personalize the answer to each specific request by reviewing and analyzing sentences. Ask the previous user.

Personal References is another interesting feature, which allows Google Assistant to use the same information that users shared before to give a smarter answer. For example, if you shared your girlfriend's home address with Google Assistant, you can ask it for some relevant information such as the weather in your girlfriend's area, or the specific route to it. how.

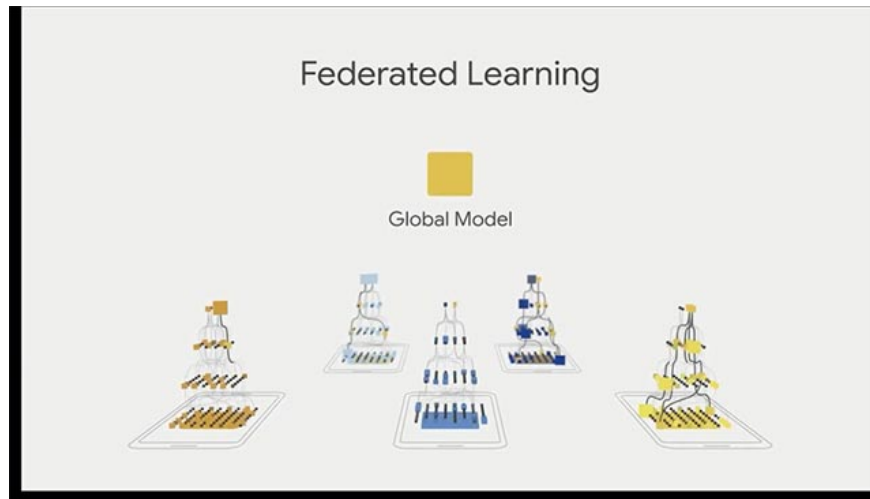


Finally, the upcoming Drive Mode on Google Assistant this summer will help show some useful information on Android phones while you're driving. This information may include the route of the trip or simply the music, radio program that you are listening to at the time of the previous ride.

1. Google Assistant Vietnamese for iPhone already on App Store, please download

Featured updates for the AI ??system

Before I / O 2019 took place, Google had many times discussed how to minimize the bias in the way that artificial intelligence models operate through the TCAV research method. , short for the phrase 'testing with concept activation vectors' (this is a test with the concept of activation vectors.) Basically, this approach is designed to help early detection of possible biases. In the process of developing new algorithms, for example, developers will be able to determine whether there is a trained AI model to analyze the doctors' images but There is a tendency to mistakenly assume that male sex is a requirement to pay more attention, rather than having to balance between both male factors. and female.



1. Google released a huge AI training data warehouse with over 5 million photos of 200,000 locations worldwide

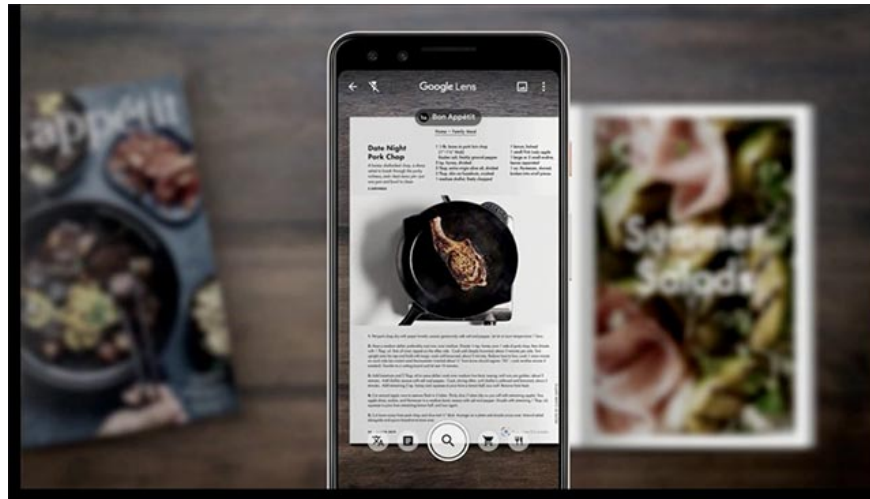
If this research method proves effective, it can provide an effective solution to the problem considered one of the most difficult challenges for artificial intelligence research: It is biased. . There are dozens of examples showing consequences that can occur when AI systems are biased. Previously there was an AI-based recruitment tool developed by Amazon, but then it had to be removed because the tool tended to give more priority to women.

Google is also using a new technique called Federated Learning, which allows the company to improve its AI-based products without having to collect additional personal data. For a simple example, using the Federated Learning method, Google's Gboard keyboard can learn new words without knowing what specific word you're typing. In addition, this technique is also considered a 'salvage' method for companies like Google and Facebook when they are under strict monitoring of users' privacy policies and data collection after a series of calves. Big crowds recently.

1. Google researchers for gaming AI to improve enhanced learning ability

Updates for Google Lens

Google has also announced some new features for its Lens application, which will basically use the smartphone's camera to display all the real world information around you.

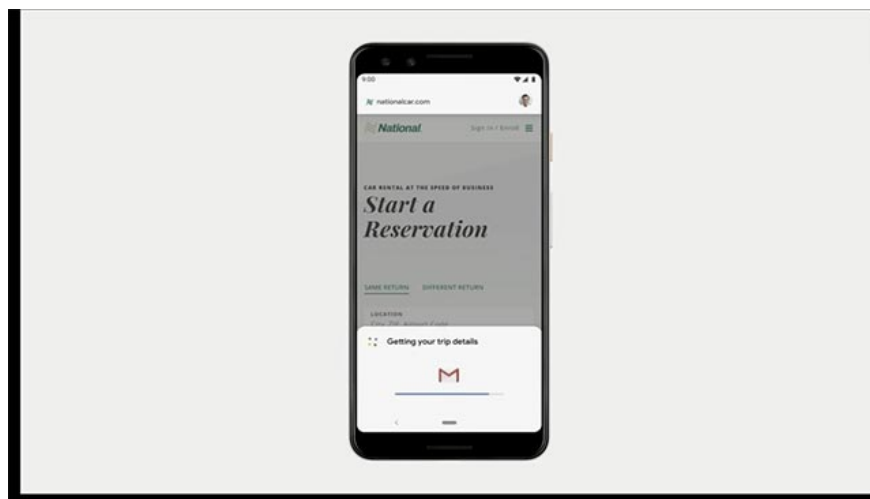


Google Lens has added some small but quite useful features, such as highlighting the most popular categories in a restaurant menu when you point your phone camera to that menu. Similarly, the application can also help split bills and calculate tips (tips).

Besides, Sundar Pichai CEO is also stepping up negotiations with magazine publishers, museums and retailers to add even more useful functions to Google Lens.

Google Duplex on the web platform

After a successful launch at last year's I / O, Duplex is being set by Google quite a lot of expectations. At the time of launch, the new Duplex can only help virtual assistant Google Assistant make multiple voice calls to businesses as well as schedule and schedule appointments on behalf of users. For example, Duplex can call on behalf of a familiar restaurant to book a table. However, at the I / O this year, this tool has been updated with some automatic features, helping you complete more complicated tasks such as booking a car, renting a car, or buying movie tickets .

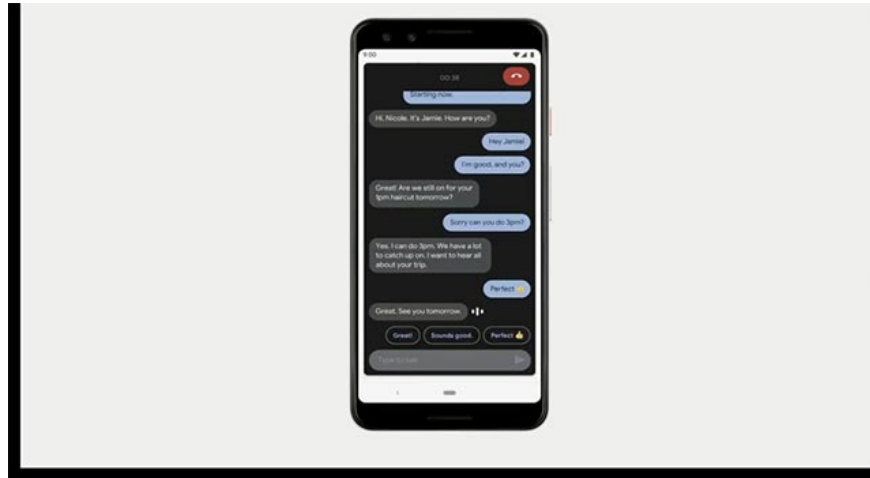


Don't stop there, Duplex can now automatically collect detailed information related to your work, such as how long the trip will take, you have options. easy . to automatically complete the booking process as well as schedule it.

Improvements to accessibility features

Some features that emphasize accessibility are also introduced by Google at this year's I / O. These include Live Relay, a feature that allows Google to answer calls and read answers that users enter from the keyboard during a conversation. The company said this feature will run on the device instead of on the cloud, so your phone calls will ensure it is kept private.

Besides, Google has also released the Live Caption feature. As its name suggests, this feature helps to automatically create instant annotations for any media file such as audio, video playing on the system.

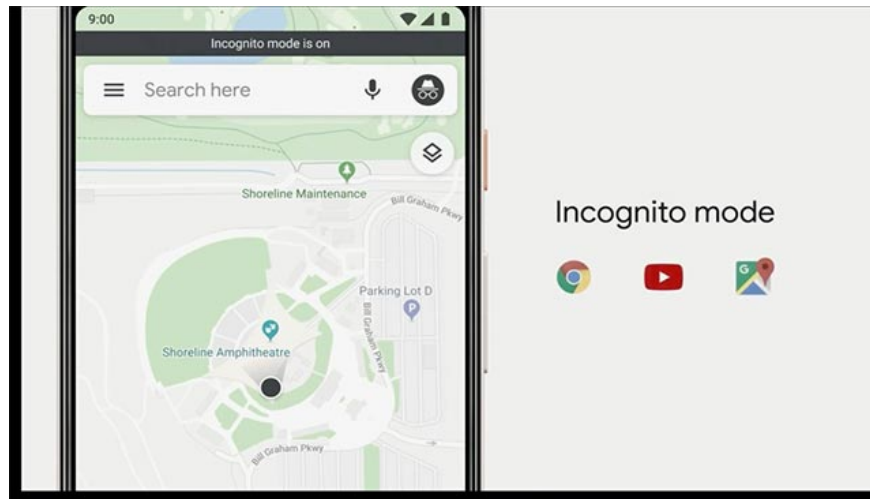


1. Google launched a feature that directly translates any video and audio on Android Q

Google has announced plans to partner with two ALS Therapy Development Institute and ALS Residence to develop a software that can write statements from sick people to help them communicate via phone. It is known that this is part of the Euphonia Project initiative Google has cherished for a long time.

Security features

As mentioned, security and privacy are one of the main focus of Google's development strategy in the next few years. And within the framework of this year's I / O, they have announced a number of new features to help users manage accounts and information shared in a simple and tighter way.

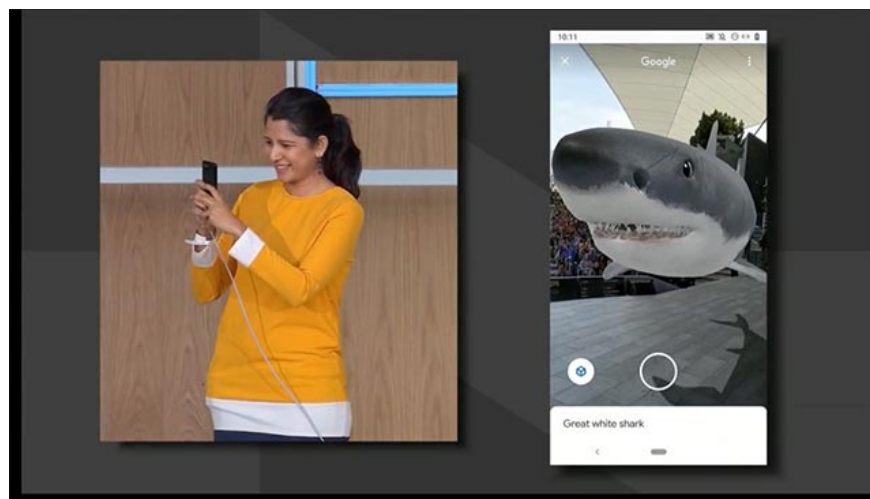


Specifically, for popular Google applications like Drive, Gmail, Pay and Contacts, you will be able to access privacy control features just by clicking on your avatar (displayed at top right corner of the screen). In addition, a number of other large Google products such as search engines, Maps, Assistant, YouTube, Chrome and News will also receive similar updates this month.

In addition, Google will also launch incognito mode (Incognito Mode) for a number of applications such as Maps, YouTube and Search, while adding the ability to set limits on how long Google will remain active. web and applications. All of these features will also be sent to users starting next month.

Virtual reality interactive technology in Google Search

If you do not know, virtual reality interaction is a technology that allows the real world and the virtual world to be combined in the same environment, so that users can both observe the surroundings and perform be able to manipulate virtual environments through 3D models. Thus, in addition to what our eyes see, electronic devices also tell us other information related to the object being observed.



Google has announced that 3D models will be similarly accessible from Google Search, and you will be able to view them with virtual reality interactive technology right on the results page. For example, if you are looking for information about a shark to collect data for a school research project, you will be able to see the real-size 3D

model of the animal through real interaction technology. Virtual reality.

Above are all the most important messages that Google brings to I / O 2019. Hope the information in the article is useful to you.

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