

# **Accessibility at Google**

Kiran Kaja | Technical Program Manager

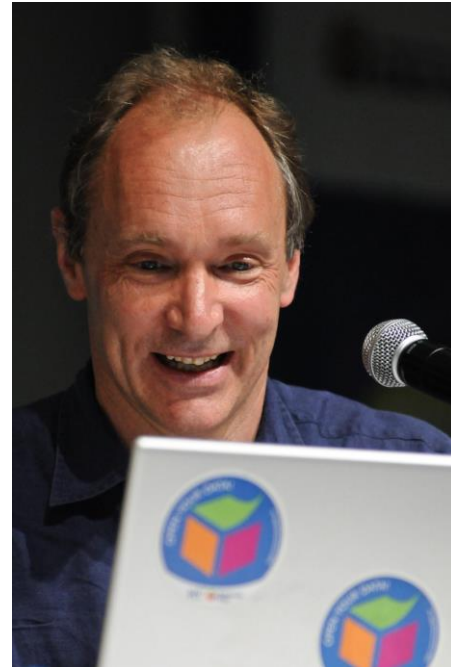
# Access to Information and Technology



Google's mission: "Organize the world's information and make it universally accessible and useful."

Tim Berners-Lee: "The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect"

Access to information and technology can have profound impact on lives of visually impaired people



# Access to Books

Supported Platforms: Android, IOS, web

All 3 platforms support options that make reading easier for users with low vision: You can change font size, style, brightness, etc. In mobile app, there is also a night light feature.

Whenever “Read Aloud” is listed under “Features” in Play Store for books, Android users can choose this way of reading/listening to content.

# Access to Books

Over 1 billion downloads of PlayBooks app.

Accessibility improvements resulting from the testing protocol.

Thanks to DAISY consortium for testing protocol and feedback.

[EPUB Daisy tests](#): Essentials:85.2 ;Visual adjustments:100% ;  
Media Overlays: not tested, tested in Play Books version  
3.12 and TalkBack 5.2

Support for epub in Google Docs. “Save as epub” from any  
Google Docs document.

# Inclusive Publishing initiative of DAISY Consortium

Sponsored by [google.org](https://www.google.org). Driving forward inclusive publishing in the mainstream with accessible epub.

4 strands of work:

- A baseline standard for accessible epub with implementation guidance.
- Software tools to help developers and consumers check for accessibility (enables scaling).
- Helping developers of reading systems to deliver accessibility (evaluative and guidance).
- An online hub to bring together information and definitive guidance for the industry ([inclusivepublishing.org](https://www.inclusivepublishing.org)).

# Built-in Accessibility

Android: Most popular smartphone operating system.

Smartphones in all price ranges

Built-in Accessibility features including:

- Talkback screen reader
- Magnification
- Large text
- Switch Access
- And more...

# Android Accessibility Innovations

- Using the fingerprint reader for accessibility gestures.
- Language auto switching with Google TTS.
- Support for 35 languages in Google TTS and always increasing.
- Select to Speak feature for those who do not require full screen reader capability.
- Voice Access: A service intended for users with motor impairments to control & use device with voice only.

# Introducing Google Assistant

Meet your Google Assistant. Ask it questions. Tell it to do things. It's your own personal Google, always ready to help.

**Google Pixel:** The first phone with the Google Assistant built in.

To start, just say “**Ok Google**” or touch and hold the Home button. With Talkback running, double tap and hold the Home button.



# Things that Google Assistant can do include:

Send messages - Text Maya "see you in 5"

Set Reminders: Remind me to do laundry when I get home

Daily briefing: Tell me about my day

Flights: When is my flight to Chicago?

Restaurant reservations: Reserve a table at Quartino

Photos: Show my photos of sunsets/ Photos: Take a selfie

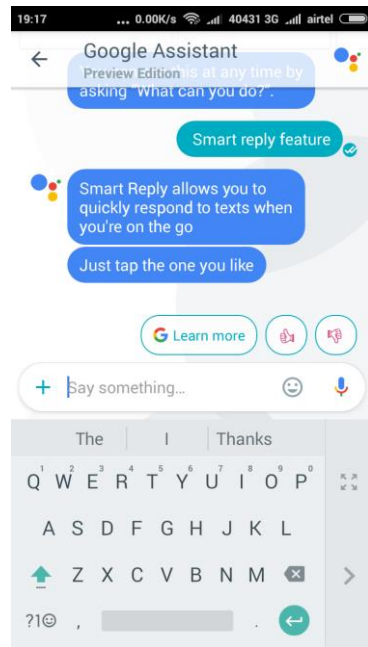
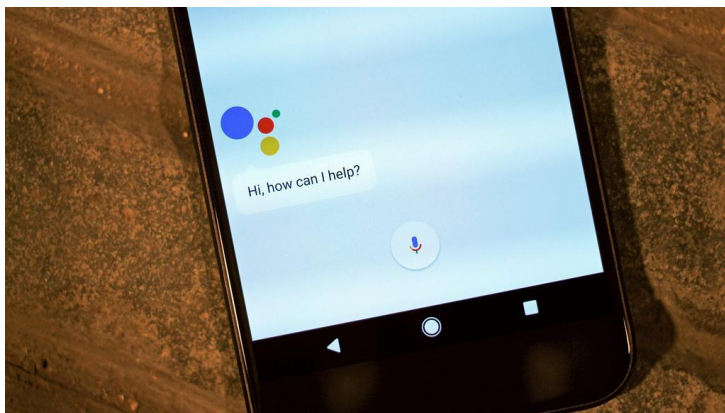
Music: Play some jazz

Control your smart home devices, and much more...

# All your devices. One Assistant.

Meet your Google Assistant on

- Google Home
- Pixel, a phone by Google
- All Android devices running Nougat and Marshmallow
- Google Allo
- Android Wear



# **Google Assistant in Action on Google Home**



# Q & A

Kiran Kaja

Technical Program Manager

[kkaja@google.com](mailto:kkaja@google.com)