

How big tech embraced disabled users

June 21 2023, by Jules Bonnard and Joseph Boyle with Glenn Chapman
in San Francisco



Apple unveiled its Live Speech feature in May that uses machine learning -- the term Apple uses for AI -- to re-create a user's voice.

Buried beneath the hype of the artificial intelligence revolution, big tech is quietly rolling out services for disabled people that it hopes will push a greater transformation for customers.

Apple and Google are leading the field, harnessing the sensors and cameras of their best-selling smartphones that allow users to edit, enhance and improve their photos and audio.

Among the latest announcements, Apple unveiled its Live Speech feature in May that uses [machine learning](#)—the term Apple uses for AI—to re-create a user's voice.

The idea is to allow people who are at risk of losing the ability to speak to type messages and have them read out in their natural voices.

Google, meanwhile, is testing an upgrade to its Lookout app, a program that describes images to blind people and those with impaired vision.

The new version, Google says, will use AI to identify objects without the need for labeling.

Digital 'kerb cuts'

Both firms are keen to portray this as the norm.

"We try and put a lot of time in, early and often," Sarah Herrlinger, who leads Apple's accessibility projects, told AFP during a recent tech event in Paris.

When asked about the process behind developing a product like the Vision Pro—a headset launched to great fanfare earlier this month—she said the idea was "to make sure that, when we are at the point of making an announcement like that, we can say we've been thoughtful about this".

Google's accessibility chief Eve Andersson makes a similar point, telling AFP hundreds of people worked [full-time](#) on accessibility at the company.

"What's even more important is that we expect accessibility to be a core part of everybody's job who is creating products," she said.

If there is discord between the firms' approaches, it is more in emphasis than practicalities.

While Herrlinger stresses the rigor of Apple's targeting, Andersson is keen to talk up the way that such features end up improving everyone's lives.

She describes it as a digital "kerb cut", an idea named after the initiative to lower kerbs on pavements that was initially intended to help wheelchair users but also helped people with pushchairs, bicycles or those carrying anything awkward.

Andersson cites digital kerb cuts such as autocorrect, autocomplete and voice recognition software.

"A lot of this was originally developed as accessibility technology that now it's just productivity-enhancing, for all of us," she said.

'Marketplace reality'

Google and Apple are among the most well-known brands on the planet and both describe how they develop accessibility features by gathering feedback from their vast numbers of users.

They are also among the richest firms, so they can go into fine-grain detail in their product planning.

Herrlinger said Apple had worked closely with Team Gleason, a charity formed by ex-American football player Steve Gleason who was diagnosed with [amyotrophic lateral sclerosis](#) (ALS), a rare, incurable and

debilitating disease.

Apple worked with his foundation to make sure its products would work for those suffering from ALS.

But Apple and Google are not the only ones developing accessibility tech—the widening availability of AI models has sparked huge creativity.

Microsoft has developed SeeingAI, which describes photos for visually impaired people, and there are a host of startups in the field.

French firm Sonar Vision is developing technology to guide visually impaired people around cities, and Equally AI is harnessing the ChatGPT bot to improve the accessibility of websites.

Manuel Pereira of the French Valentin Haüy association, which campaigns for greater accessibility, reckons AI has the potential to give blind and visually impaired people more autonomy.

But he had a warning for the companies in the field.

"If we fall into an [economic model](#) that emphasizes profitability, the door can close as quickly as it opened," he said.

Google's Andersson makes the opposite point, saying the realization that one billion people live with disabilities has jolted companies into realizing what this could mean for their bottom line.

"It's marketplace reality, not every company does it out of the goodness of their hearts," she said.

Citation: How big tech embraced disabled users (2023, June 21) retrieved 27 February 2024 from <https://techxplore.com/news/2023-06-big-tech-embraced-disabled-users.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.