

# Advancing Accessibility with Mobile

## How Natural User Interfaces Make Life Easier for All Ages and Abilities

Resource guide for March 2019 webinar by Nicole Hennig

### Books

Brisbane, Shelly. *iOS Access for All*. Ebook, available as EPUB or PDF on the author's website. <http://www.iosaccessbook.com/>

Smith, Kel. *Digital Outcasts: Moving technology forward without leaving people behind*. Boston: Morgan Kaufmann, 2014. <http://digital-outcasts.com>

Hennig, Nicole. *Apps for Librarians: Using the Best Mobile Technology to Educate, Create, and Engage*. Libraries Unlimited, 2014. <http://nicolehennig.com/books/apps-librarians-book/>

Hennig, Nicole. *Siri, Alexa, and Other Digital Assistants: The Librarian's Quick Guide*. Libraries Unlimited, 2018. <https://www.abc-clio.com/ABC-CLIOCorporate/product.aspx?pc=A5908P>

### Articles

#### Understanding disabilities

Kirby, Holly. "Tech Tools That Have Transformed Learning With Dyslexia." KQED Mind/Shift. <http://ww2.kqed.org/mindshift/2015/11/03/tech-tools-that-transformed-learning-with-dyslexia/>.

Kornowski, Liat. "How the Blind Are Reinventing the iPhone." The Atlantic. <http://www.theatlantic.com/technology/archive/2012/05/how-the-blind-are-reinventing-the-iphone/256589/>.

Peter, David. "The Hearing Monoculture Rejects Those Who Can't Hear." Model View Culture. <https://modelviewculture.com/pieces/the-hearing-monoculture-rejects-those-who-cant-hear>.

Ringo, Allegra. "Understanding Deafness: Not Everyone Wants to Be 'Fixed.'" The Atlantic. <http://www.theatlantic.com/health/archive/2013/08/understanding-deafness-not-everyone-wants-to-be-fixed/278527/>.

Wade, Carrie. Pity is Not Progress: Why disabled people don't need to be "fixed." Medium. <https://medium.com/@wadeacar/pity-is-not-progress-f416f0491f9e>.

## **Touchscreens and haptic technologies**

Connell, Mike. "Why a touchscreen (tablet or iPad) is better than a mouse and keyboard for young learners." NativeBrain. <http://www.nativebrain.com/2012/12/why-use-an-ipad-for-early-learning-when-a-computer-will-do/>

American Library Association, "Haptic technology." Library of the Future. <http://www.ala.org/tools/future/trends/haptic>

Russey, Cathy. "The Dot Braille Smartwatch Lets the Visually Impaired People See the World from a Different Angle." Wearable Technologies. <https://www.wearable-technologies.com/2018/10/the-dot-braille-smartwatch-lets-the-visually-impaired-people-see-the-world-from-a-different-angle/>

Mortensen, Ditte. "Natural User Interfaces – What are they and how do you design user interfaces that feel natural?" Interaction Design Foundation. <https://www.interaction-design.org/literature/article/natural-user-interfaces-what-are-they-and-how-do-you-design-user-interfaces-that-feel-natural>

## **Hearables**

Banks, Lindsey. "The Complete Guide to Hearable Technology in 2019." Everyday Hearing. <https://www.everydayhearing.com/hearing-technology/articles/hearables/>

## **Speech recognition & conversational interfaces**

"Conversational User Interfaces: In-depth Guide [2019 update]. AI Multiple. <https://blog.aimultiple.com/conversational-ui/>

Maruti Techlabs. "What is a Conversational UI and why does it matter?" Chatbots Magazine. <https://chatbotsmagazine.com/what-is-a-conversational-ui-and-why-it-matters-de358507b9a2>

Woyke, Elizabeth. "The Octogenarians Who Love Amazon's Alexa." MIT Technology Review. <https://www.technologyreview.com/s/608047/the-octogenarians-who-love-amazons-alexa/>

Bogost, Ian. "Alexa Is a Revelation for the Blind." The Atlantic. <https://www.theatlantic.com/magazine/archive/2018/05/what-alexa-taught-my-father/556874/>

Kalish, John. "Why Amazon's Alexa Is 'Life Changing' for the Blind." PC Magazine. <https://www.pcmag.com/news/358338/why-amazons-alexa-is-life-changing-for-the-blind>

Pearl, Cathy. "The Societal Benefits of Smart Speakers." VUI Magazine. <https://medium.com/vui-magazine/the-societal-benefits-of-smart-speakers-274073cfe7ae>

Clark, Jay. "Using the Amazon Echo to improve the lives of Alzheimer's patients." Medium.com. <https://medium.com/@JaysThoughts/using-the-amazon-echo-to-improve-the-lives-of-alzheimers-patients-f5727560a5eb>

## **Camera input**

Good, Otavio. "How Google Translate squeezes deep learning onto a phone." Google Research Blog. <http://googleresearch.blogspot.com/2015/07/how-google-translate-squeezes-deep.html>

Dellinger, A.J. "Google Translate adds real-time translations for 13 new languages." Engadget. <https://www.engadget.com/2018/10/11/google-translate-real-time-translations-new-languages/>

Visible Body. Augmented reality app for human anatomy. <https://www.visiblebody.com/ar>

## **Mobile accessibility features**

### **iOS**

Apple's Accessibility site. <https://www.apple.com/accessibility/ios/>.

Apple VIS: A community-powered website for blind and low-vision users of Apple's range of Mac computers, the iPhone, iPad, iPod Touch, Apple TV and Apple Watch. <http://www.applevis.com>.

### **Android**

Android Accessibility Help Center. <https://support.google.com/accessibility/android/>.

# Success stories

Stories of success are from the site *Bridging Apps*: <http://bridgingapps.org>

1. Susan's success story:

<http://bridgingapps.org/2015/08/susans-success-story/>

App: ProLoQuo2Go

<http://www.assistiveware.com/product/proloquo2go>

2. Colin's success story:

<http://bridgingapps.org/2015/06/colins-success-story/>

App: Write My Name

<https://itunes.apple.com/us/app/write-my-name/id500623496?mt=8>

3. Todd's success story:

<http://bridgingapps.org/2014/09/todds-success-story/>

4. Connor's success story:

<http://bridgingapps.org/2014/01/connors-success-story/>

Bookshare service:

<https://www.bookshare.org>

Read2Go

<https://www.bookshare.org/cms/help-center/reading-tools/read2go>

*Bridging Apps* also has a useful search engine for discovering apps for special needs:

<https://insignio.bridgingapps.org/lists>

## Apps & devices

### Touch

3D Brain – Human Anatomy. Android & iOS. <http://www.g2conline.org>

Complete Anatomy, iOS. <http://completeanatomy.3d4medical.com>

Apple Watch 101. A live demo of getting walking directions from The Watch and Apple Maps.

<http://www.applevis.com/podcast/episodes/apple-watch-101-live-demonstration-getting-walking-directions-watch-and-apple-maps>

Molly Watt. "My ears, my eyes, my Apple Watch." Molly Watt Talks (blog).

<http://www.mollywatt.com/blog/entry/my-ears-my-eyes-my-apple-watch>

## Sound

Merriam-Webster Dictionary – speech recognition. Android & iOS.

<https://www.merriam-webster.com/apps>

Pedlar Lady of Gushing Cross – reading aloud. iOS.

<http://moving-tales.com/the-pedlar-lady-of-cushing-cross/>

Capti Voice – reading aloud. iOS, Mac & Windows.

<https://www.captivoice.com/capti-site/>

Blindsquare – audio wayfinding for the blind. iOS. <http://blindsquare.com>

Smart Speakers:

Prospero, Mike. “Amazon Echo Buying Guide.” Tom’s Guide.

<https://www.tomsguide.com/us/amazon-alexa-buying-guide,review-3904.html>

Wollerton, Megan. “Siri vs. Alexa vs. Google Assistant.” CNET.

<https://www.cnet.com/news/siri-vs-alexa-vs-google-assistant/>

ReSound LiNX2 Smart Aid – smart hearing aid.

<http://www.resound.com/en-US/hearing-aids/resound-linx2>

The Dash - smart hearing. <https://bragi.com/products/thedashpro>

## Sight

Google Translate. Android & iOS.

iOS: <https://itunes.apple.com/us/app/google-translate/id414706506?mt=8>

Android: [https://play.google.com/store/apps/details?](https://play.google.com/store/apps/details?id=com.google.android.apps.translate&hl=en_US)

[id=com.google.android.apps.translate&hl=en\\_US](https://play.google.com/store/apps/details?id=com.google.android.apps.translate&hl=en_US)

Leafsnap – camera for tree identification. iOS. <http://leafsnap.com>

LookTel Money Reader – camera for currency recognition. iOS.

<http://www.looktel.com>

KNFB Reader – camera for currency recognition. Android & iOS.

<http://www.knfbreader.com>

Aipoly – camera for recognizing objects around you. iOS. <http://aipoly.com>

Scanbot – camera as scanner. Android & iOS. <https://scanbot.io/en/index.html>

## **Staying current**

To stay current with the best apps for educational use, sign up for my free newsletter, *Mobile Apps News*. <http://nicolehennig.com/mobile-apps-news/>

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