



easterseals

Crossroads

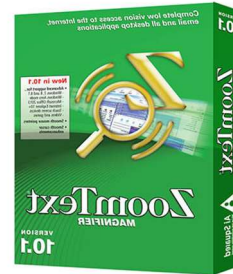
INDATA
AT 101

AGENDA

1. What is Assistive Technology?
2. Low Tech
3. Labelers and Large Print Keyboards
4. Magnifier / Readers
5. Orcam
6. Built-In Accessibility for Computers
7. Magnifying Software
8. Screen Reader Software
9. Tablets and Apps
10. Questions & Answers

What is AT or Assistive Technology

Any device or system that allows a person with different abilities to perform a task that they might not otherwise be able to.



Low Tech



Puff Paint



Rubber Bands



Shelf Liner



Bumps



Velcro

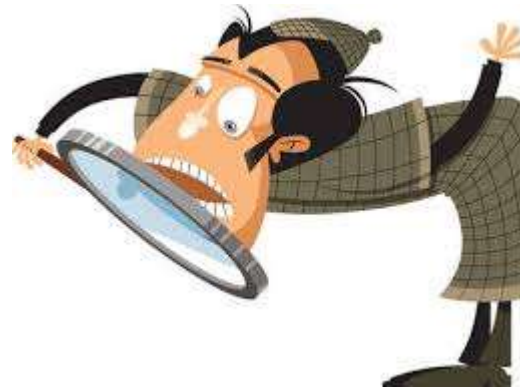
Labelers and Large Print Keyboards

- Pen Friend
- ID Mate
- Braille Labeler
- Large print keyboards



Magnifiers and Readers

- What they do
 - Magnify text and pictures
 - Adjust contrast settings
 - Some will capture text and read aloud



Magnifiers Come in Many Shapes and Sizes



OCR Devices

- ClearReader
 - The Optelec ClearReader+ brings portability, simplicity and a sleek design to text-to-speech and OCR reading.
- OrCam Glasses
 - The OrCam is a device that reads text aloud to people who are visually impaired or legally blind and is triggered by the simple point of a finger or push of a button. Wearers can also program the OrCam device to recognize commercial products, personal items and people's faces.

Accessibility Options

ChromeBook

How to Enable Accessibility Options In Chrome OS

To enable accessibility options in Chrome OS, go to settings and search accessibility. You can also access them by going to Settings > Advanced Options > Accessibility.

ChromeVox

CTRL + ALT + Z

ChromeVox is a free screen reader that brings the speed, simplicity, and security of Chromebooks to visually-impaired users. ChromeVox comes pre-installed on Chromebooks so there's nothing you have to do besides turn it on.

Accessibility Options

MAC

How to Enable Accessibility Options In MAC OS

macOS features an **Accessibility** Options window that lets you quickly turn on or off common **accessibility** features like Zoom, VoiceOver, Zoom and more. You can bring up this window anytime with a simple shortcut. On the built-in keyboard of a **Mac** notebook computer, press Fn-Option-Command-F5.

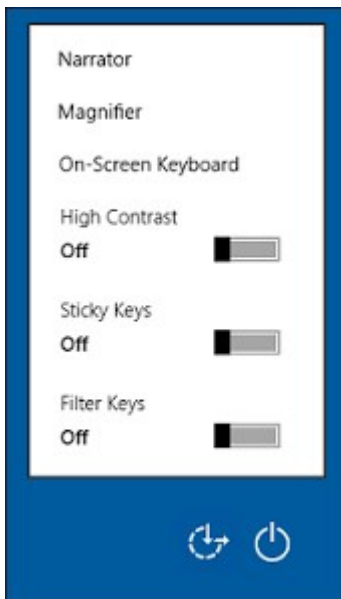
VoiceOver

Command F5 or FN Command F5

VoiceOver is a screen reader built into Apple devices. By using VoiceOver, the user can access their Mac computer device based on spoken descriptions and, by using the the keyboard.

Accessibility Options

Windows



Setting up your PC to make it more accessible takes only a few steps. Most Ease of Access options are available in Settings. Select the **Start** button, then select **Settings > Ease of Access** .

Commonly used options are also available from the sign-in screen. Select the **Ease of Access** button in the lower-right corner to see them.

Narrator

Press Windows Key and Type Narrator

Narrator is a light-duty screen reader utility included in Microsoft Windows. Narrator reads dialog boxes and window controls in a number of the more basic applications for Windows

Magnifying Software

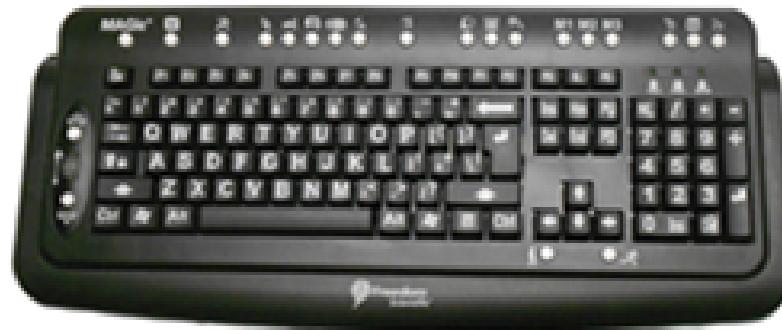
- How they work:
 - Magnify what is being displayed on screen
 - Offer a variety of enhancements
 - Size and color of mouse
 - Contrast on screen
 - Cursor tracker
 - Focus for navigation

Variety of Magnification Software

- ZoomText
 - \$400-\$600
- Magic
 - \$400-\$600
- Dolphin
 - \$795



Keyboards



Braille Displays and Screen Readers

- Braille Displays and Notetakers
 - Tool for computer input and output
 - Allows the user to read output using Braille Dots
 - Allows User to Input
 - Perkins Keyboard
 - QWERTY Keyboard



Screen Readers

- Converts text on screen to audible speech
- Navigation of the computer done with keystrokes.

- Examples

- JAWS \$1000

- NVDA

- Windows Narrator

- Window Eyes



Narrator

Window-Eyes Update

- Sales have been discontinued in the US and Canada
- Technical support (paid versions) will continue
- No further updates (so may become obsolete as Windows moves forward)
- VFO offering free migration to JAWS 18
- Read more: <http://www.gwmicro.com/window-eyes/migrate/>

Apps, Apps, Apps

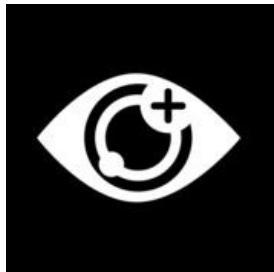
1. Magnifiers
2. Object Identifiers
3. Color Identifiers
4. Currency Identifiers
5. Optical Character Recognition
6. Other Kinds
7. Resources

Apps, Apps, Apps

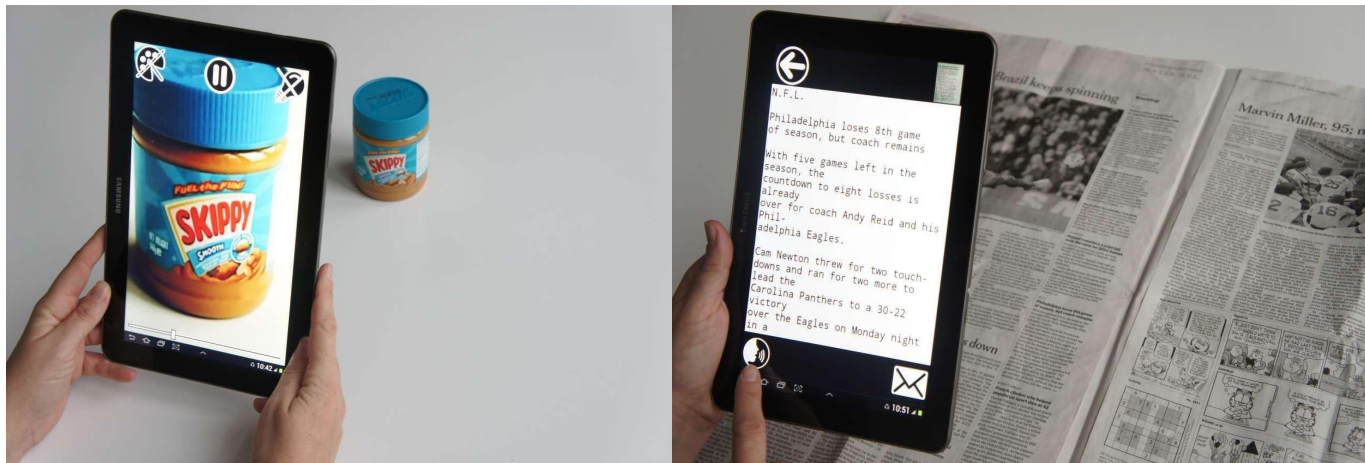
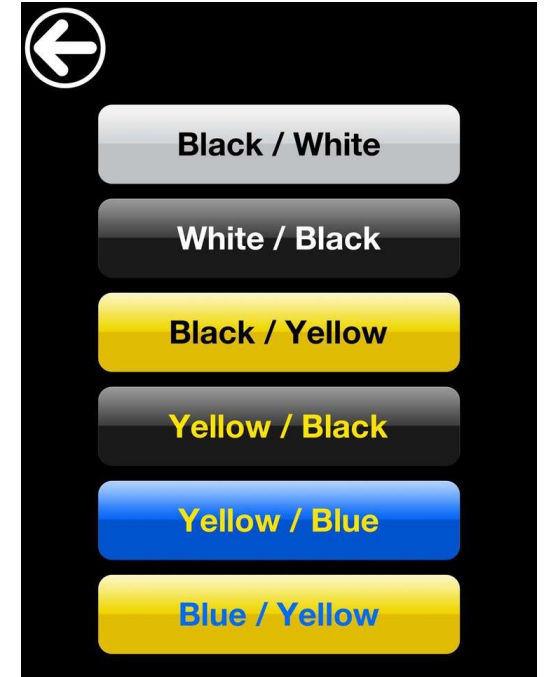
Magnifiers

- iOS and Android – Brighter and Bigger, Claro MagX, Seeing Assistant Home Lite, SuperVision+ Magnifier
- iOS Only - Better Vision, MagniFire, Mag. Light Pro (\$1.99), Vision Assist (\$3.99), Visor – Magnifier (\$1.99),
- Android Only – Meyepal Magnifier, Magnifying Glass, Flashlight and Magnifying Glass, Zoom Plus

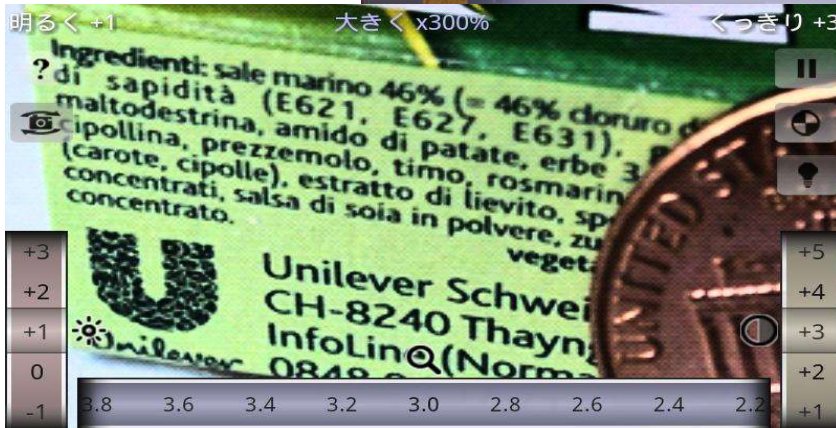
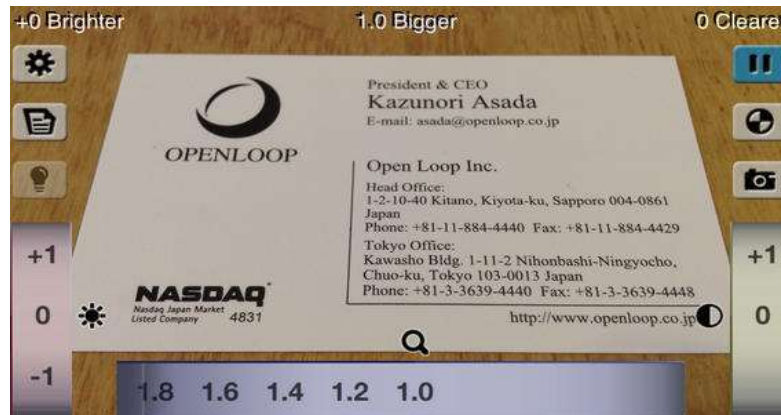
Better Vision by Ergra Low Vision



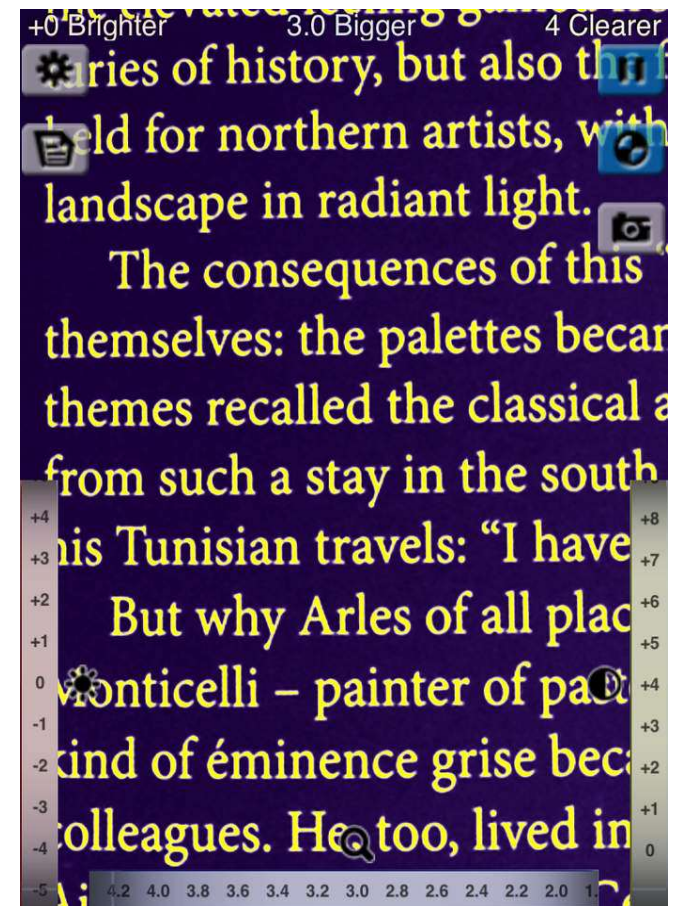
- Big icons for easy control
- Invert color
- Several color combination for contrast
- Option to freeze
- Optical character recognition needs improvement



Brighter and Bigger by Kazunori Asada



- Many robust options to make the image clear
- Adjust contrast and magnification as you go



Meyepal Magnifier by Meyepal



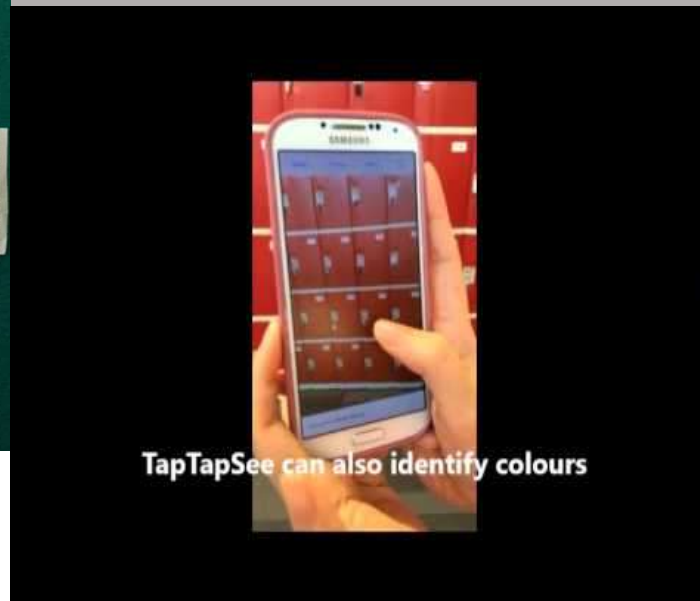
- Big buttons for easy control
- Option to freeze
- Invert color

Apps, Apps, Apps

Object, Color and Currency Identifiers

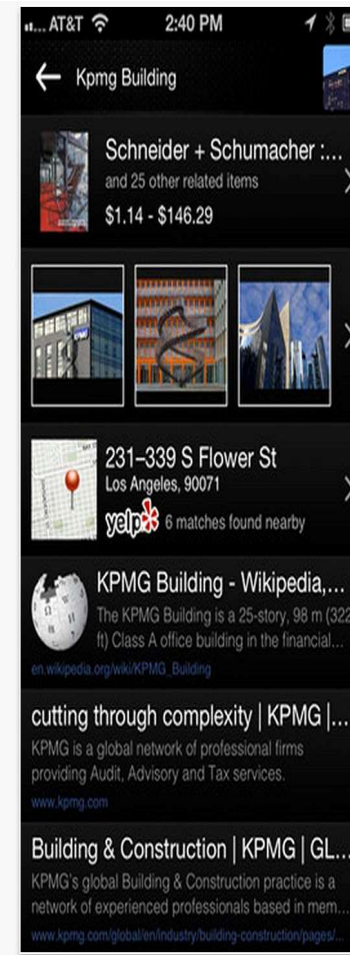
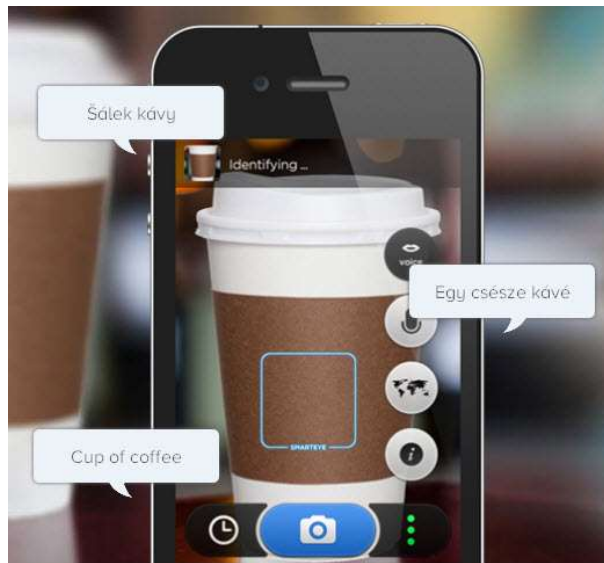
- iOS and Android – TapTapSee, CamFind, Talking Goggles
- iOS Only - Be My Eyes

TapTapSee by CamFind, Inc.



- Descriptions appear in text format at the bottom of the screen
- There is no built-in audio feedback; need to turn on tablet screen reader to hear descriptions

CamFind by CamFind, Inc.



- Descriptions appear in text format on top of the screen
- There is built-in audio feedback
- Provides web search results of the product or something similar or something totally not relevant
- Audio feedback available in several languages

Talking Goggles – A Camera with Speech by Sparkling Apps BV



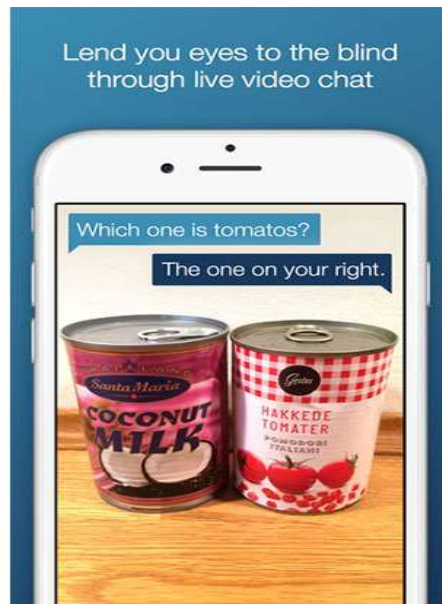
- Descriptions appear in text format in the middle of the screen
- There is built-in audio feedback
- Upgrade (\$0.99) to remove ads and view the web search results
- Audio feedback available in several languages

Be My Eyes by Be My Eyes



- Blind users can request help from a sighted person and the sighted users will then be called for help. As soon as the first sighted user accepts the request for help a live audio-video connection will be set up between the two and the sighted user can tell the blind person what she sees when the blind user points his phone at something using the rear-facing camera.

- Live audio-video connection between blind and sighted users
- Add the languages you know under settings
- An easy way you can make a difference for blind people

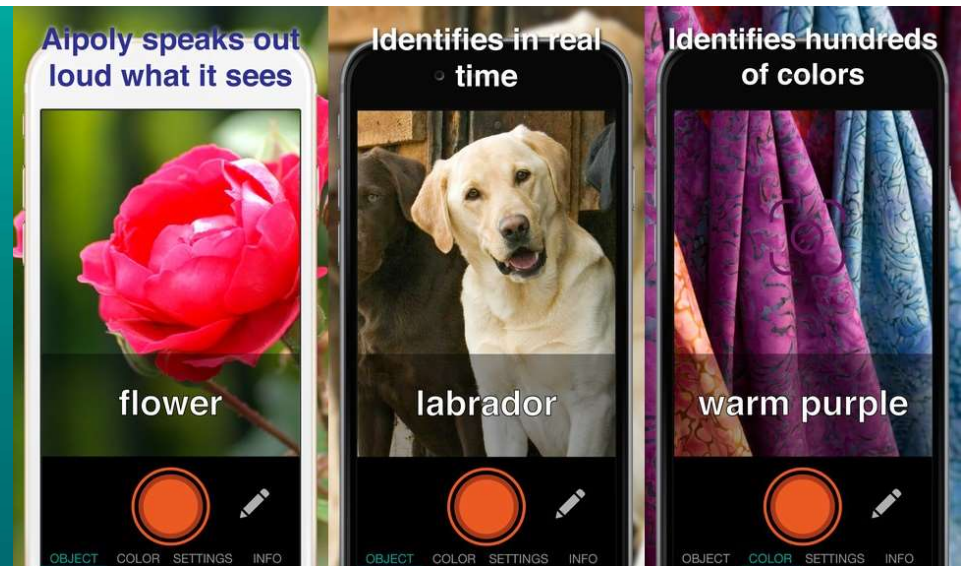


Apps, Apps, Apps

Color Identifiers

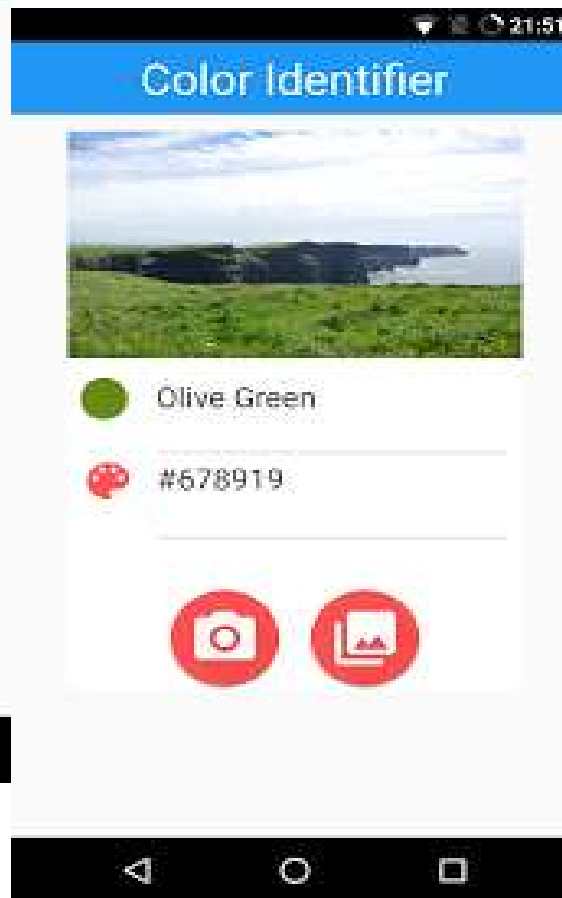
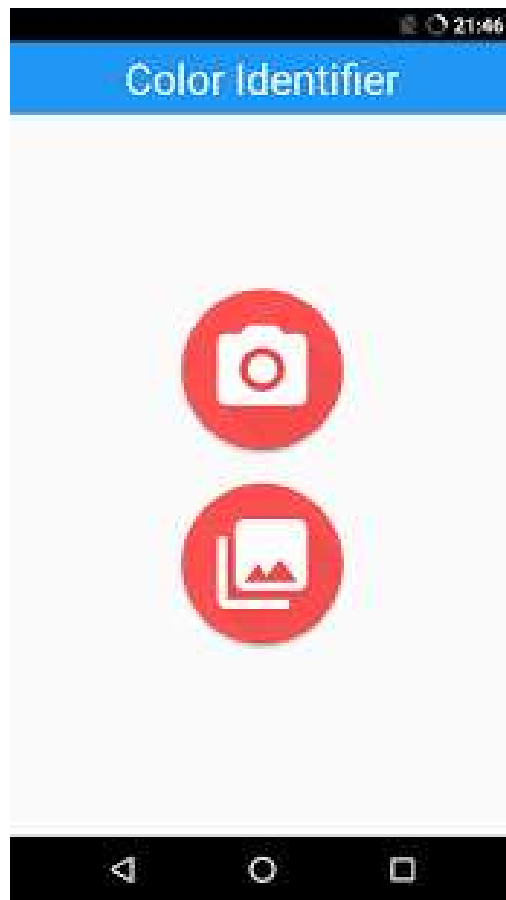
- iOS and Android – Color ID, Aipoly Vision (works with certain versions of iOS devices only)
- iOS Only – ColorSay, Say Color
- Android Only – Color Identifier, Color Grab

Aipoly Vision by Aipoly



- It's free to identify color and objects in general.
- It has own built-in audio feedback.
- It requires a subscription of \$4.99 a month to recognize text in 7 languages, food, plants and flowers, animal species, US Dollars, and packaged products.

Color Identifier by Eoghan O'Duffy



- Take a picture or retrieve a picture from your photo gallery app
- Touch the part on the picture you want its color to be identified
- It then matches its color database and presents the color in text format below the picture.
- It does not have built-in audio feedback; one will need to turn on the screen reader to hear it.

Apps, Apps, Apps

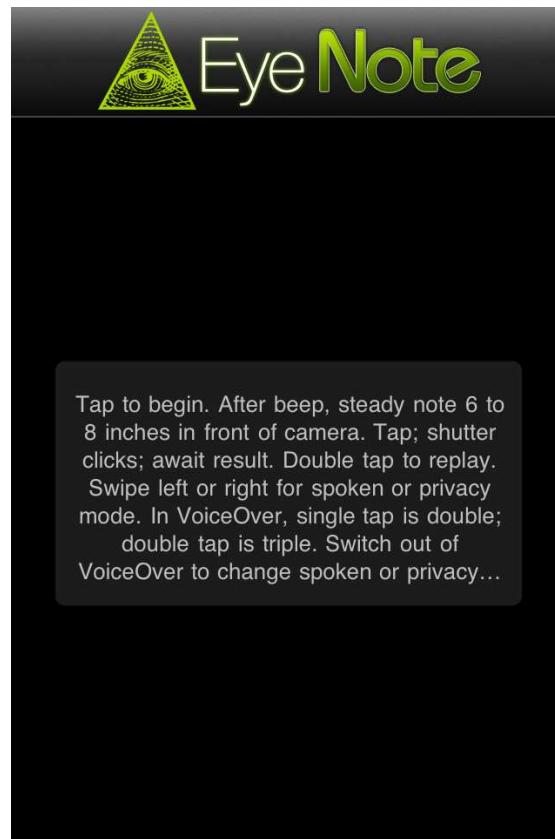
Currency Identifiers

- iOS – EyeNote, NantMobile Money Reader
- Android – IDEAL Currency Identifier, Darwin Wallet

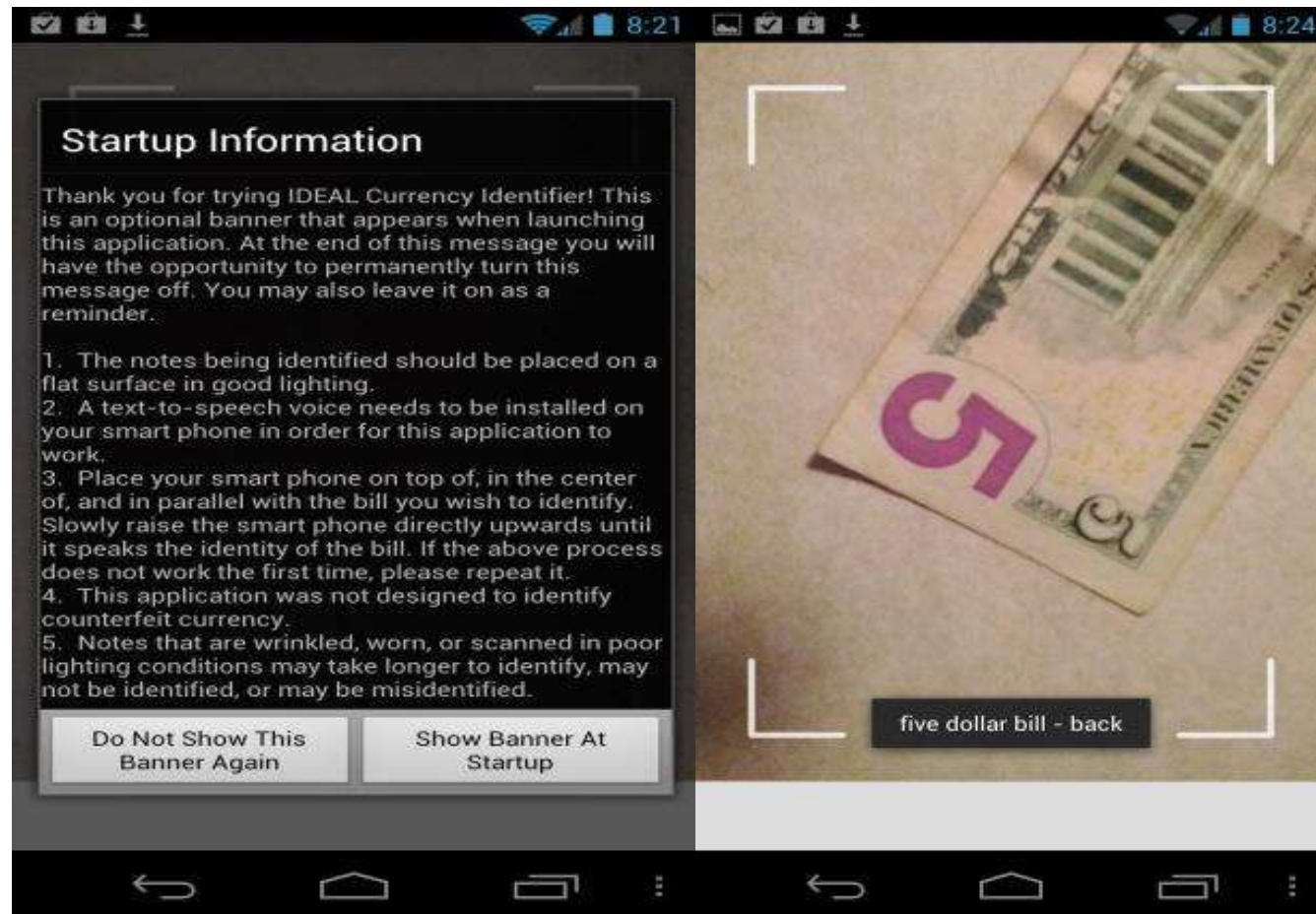
EyeNote by Bureau of Engraving and Printing



- It has its built-in audio feedback
- Clear instructions if needed
- Identifies front and back of currency
- Identifies US Dollar only



IDEAL U.S. Currency Identifier by IDEAL Group, Inc.



Darwin Wallet by VoccaLight



Darwin Wallet enables blind and visually impaired users to quickly recognize paper money. It uses the phone's camera to detect currency denominations for:

- US dollars
- British pounds
- Canadian dollars
- European Union euros
- Australian dollars
- Russian rubles
- Belarusian rubles
- Georgian laris
- Ukranian hryvnias

Apps, Apps, Apps

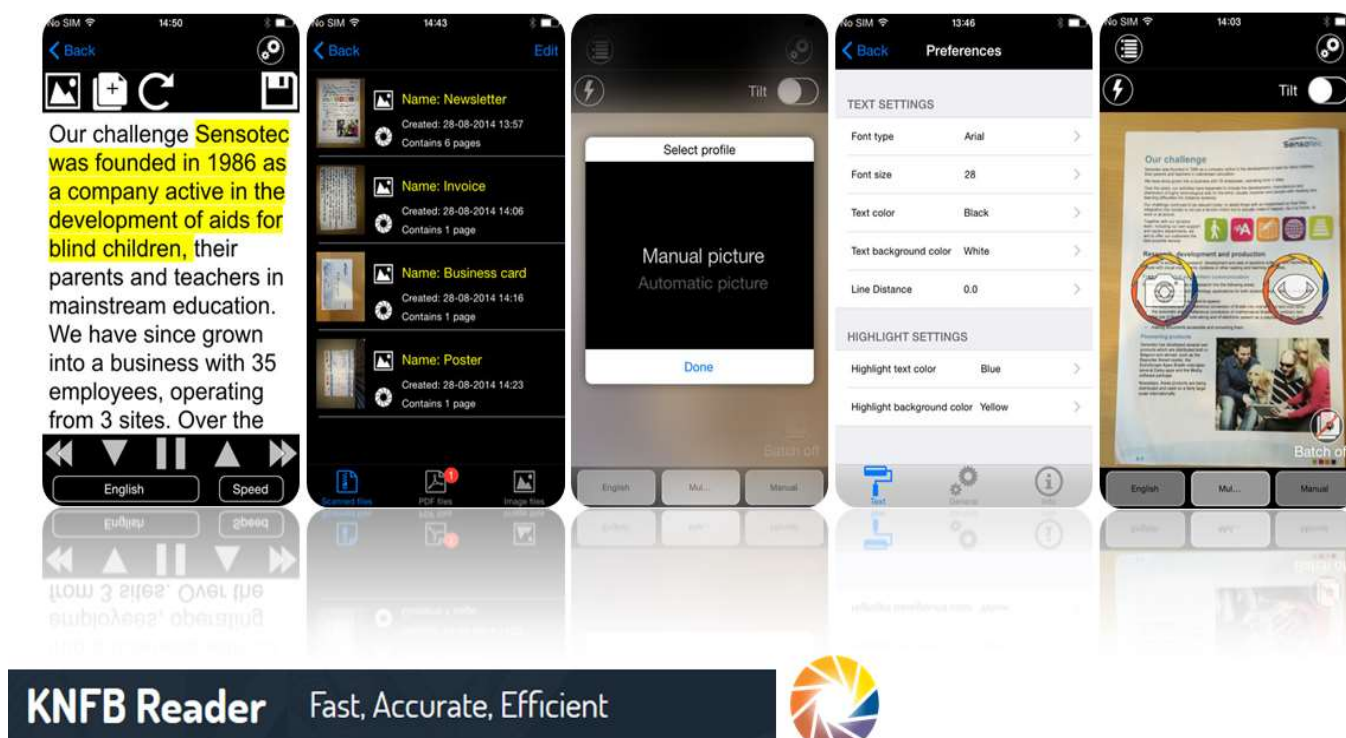
Optical Character Recognition

- iOS and Android – CamScanner, Office Lens
- iOS Only – KNFB Reader (\$99.99), Prizmo (\$9.99)
- Android Only – KNFB Reader (free download with 25 recognitions; \$99.99 for unlimited use)

KNFB Reader by Sensotec



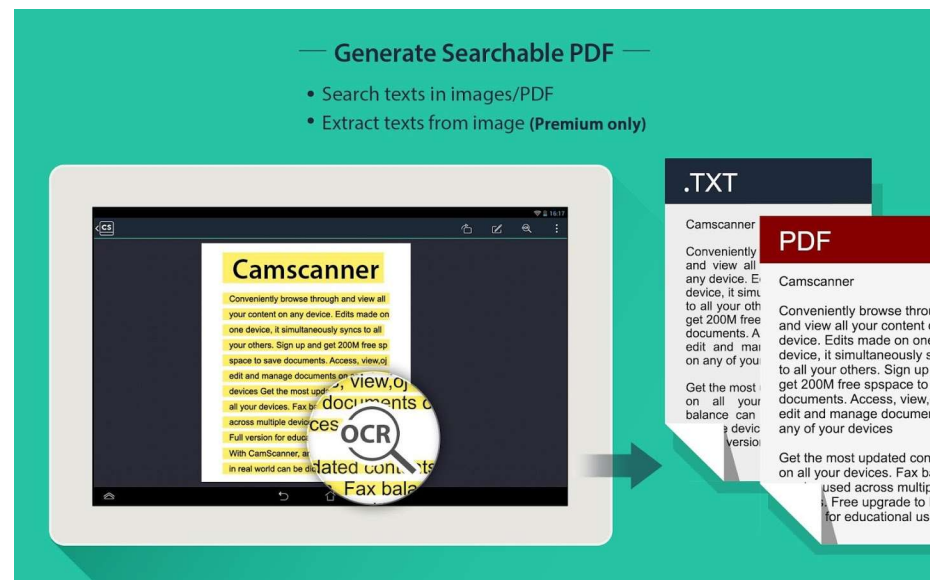
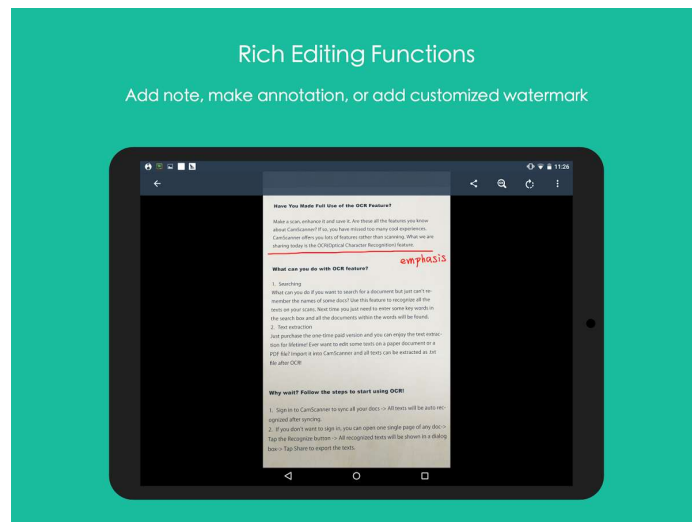
- Big buttons for easy control
- Reading speed, language, font size and style can all be adjusted.
- Batch style processing option
- Save to cloud accounts



CamScanner -Phone PDF Creator by INTSIG Information Co, Ltd.



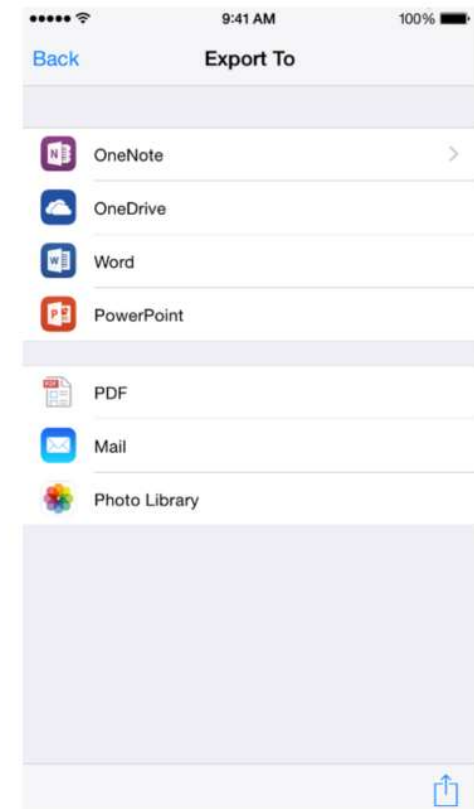
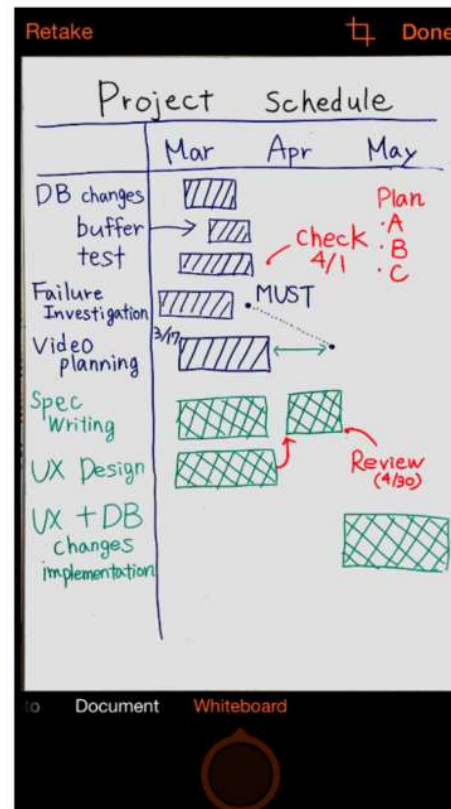
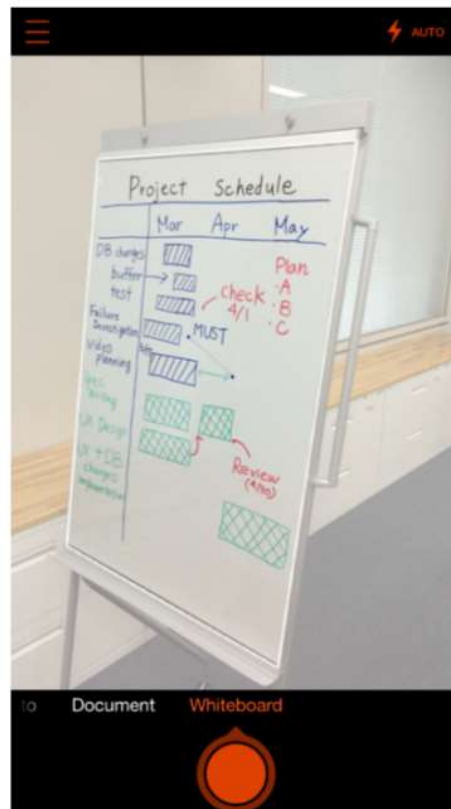
- It's free to scan with enhanced quality, extract text to be read by screen reader, store document images, and share PDF documents with watermark.
- It requires a subscription of \$4.99 a month (or \$49.99 a year) to edit and share OCR results, upload to cloud accounts, enjoy extra cloud storage, extra security protection and additional collaborators.



Office Lens by Microsoft Corporation



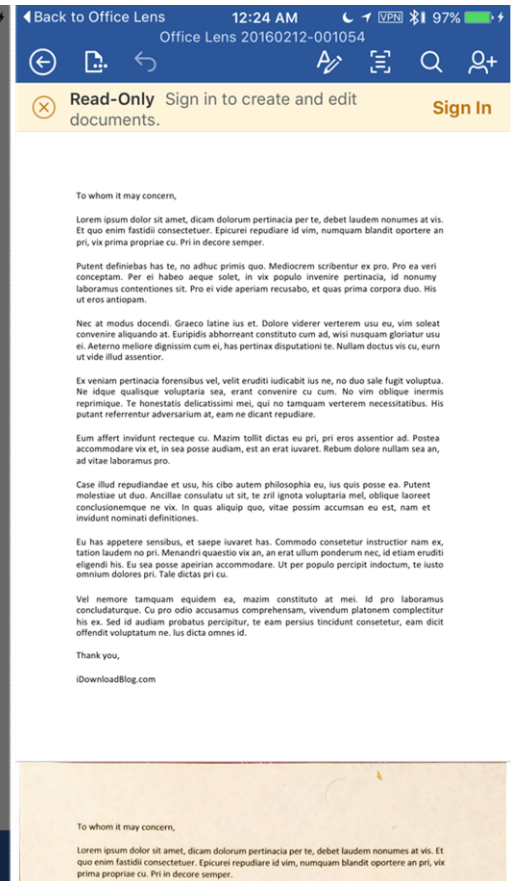
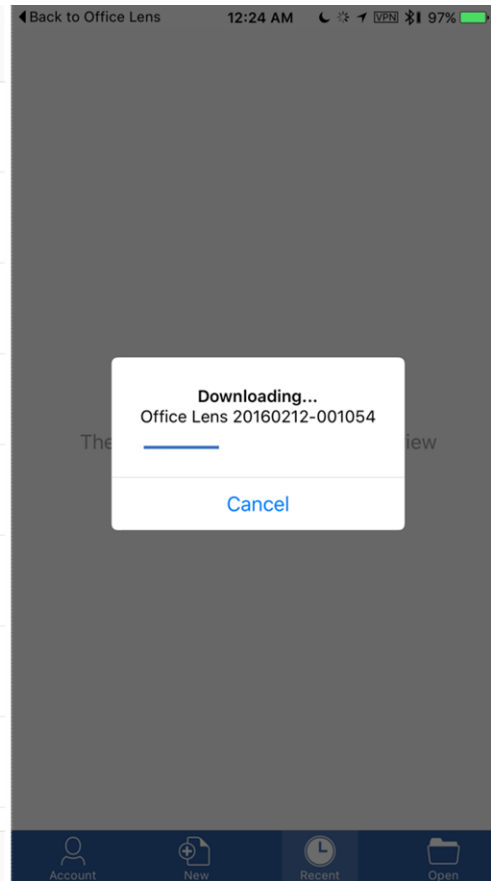
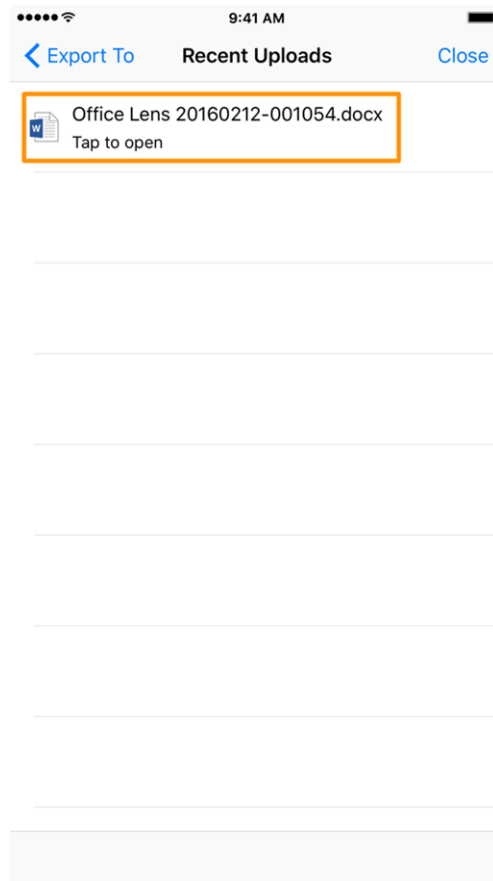
- Converts picture and exports to several different kinds of format



Office Lens by Microsoft Corporation



- Exports scanned image to Microsoft Word and makes it a lot more readable



Apps, Apps, Apps

Other Categories or Kinds

- Talking calculator apps
- Big font / browser apps
- Audio book apps
- Note taking apps
- Reminder apps
- Wellness apps
- GPS apps
- Ride sharing apps
- Etc. etc. etc.



Apps, Apps, Apps

Resources

- BridgingApps.org
- AppleVis.com
- AFB.org
- BrailleInstitute.org
- AppAdvice.com (iOS apps only)
- InclusiveAndroid.com
- AndroidAccess.net
- AndroidAuthority.com
- App Store
- Google Play Store
- ViA app for iOS apps
- Inclusive Android app for Android apps



Thank you! Any questions?

Easterseals Crossroads
Assistive Technology Center
4740 Kingsway Drive
Indianapolis, IN 46205
317-466-2013
888-466-1314

tech@eastersealscrossroads.org

www.eastersealstech.com

