

Software and Apps for Vision Loss

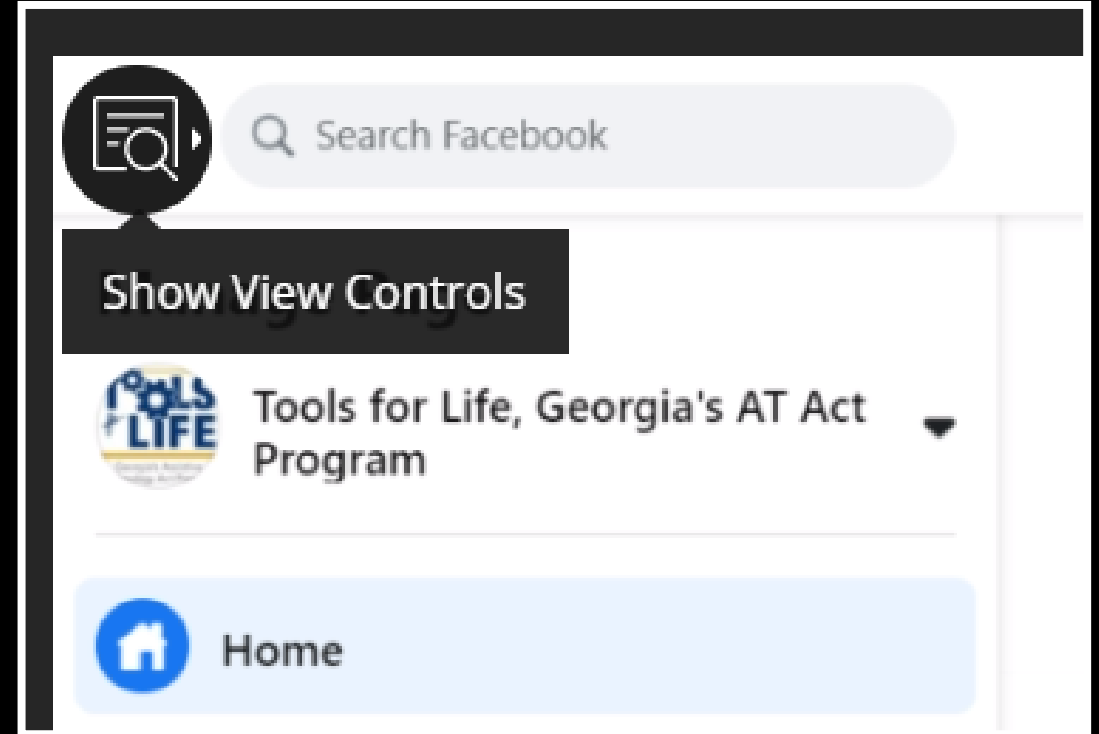
Danny Housley, Tools for Life

CREATING THE NEXT®

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- Zoom into the shared screen with the view controls at the top left corner



ASK Webinar Series



- We are developing the Assistive Software Knowledgebase (ASK) a centralized, online resource on assistive software and mobile apps used as workplace accommodations. It will provide general product information as well as other information to help an employee maximize his or her use of the software.
- Today's presentation is part of an every-other-week series on the use of different types of software and mobile apps in the workplace.
- This development project is funded by grant #90IF0125 from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), within the Admin. for Community Living, U.S. Dept. of Health and Human Services.

Agenda

Welcome and introductions- 5 minutes

Identifying barriers- 5 minutes

Visual Solutions- 15 minutes

Q&A- 5 minutes

Non-Visual Solutions- 15 minutes

Q&A- 5 minutes

Funding Resources/Wrap-up- 10 minutes

Learning Objectives

- 1- Participants will be able to identify three different screen reading options for non-visual access to operating systems and files.
- 2- Participants will be able to identify four options for screen magnification.
- 3- Participants will be able to identify which operating system – mobile or desktop – may benefit them better through built in and third party supports.
- 4- Participants will have three resources for finding funding solutions for acquiring assistive technology.

Where are the Barriers?

- They're everywhere! (some are sneakier than others)
- Inaccessible print
- Poorly designed print and electronic materials
- Visual/non-visual access
- In the home, community, work and school environments
- Vary and change dramatically
- Cost

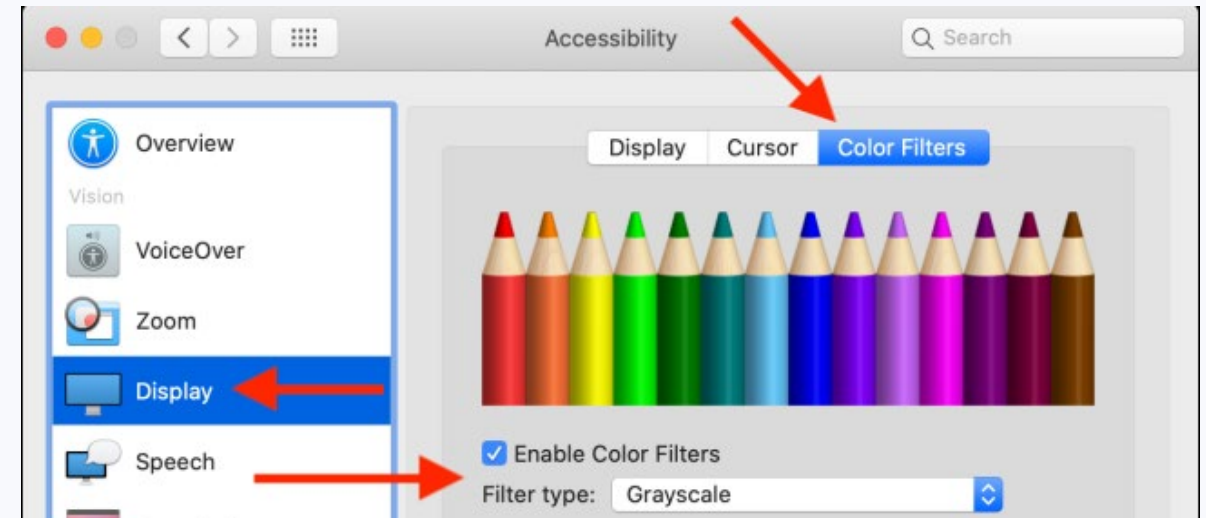


Visual Access

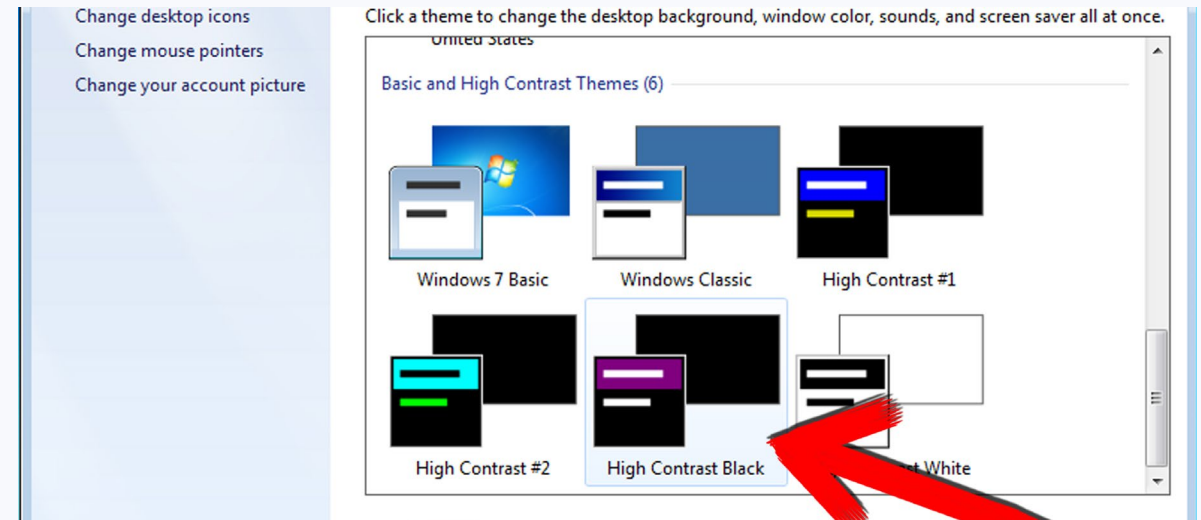
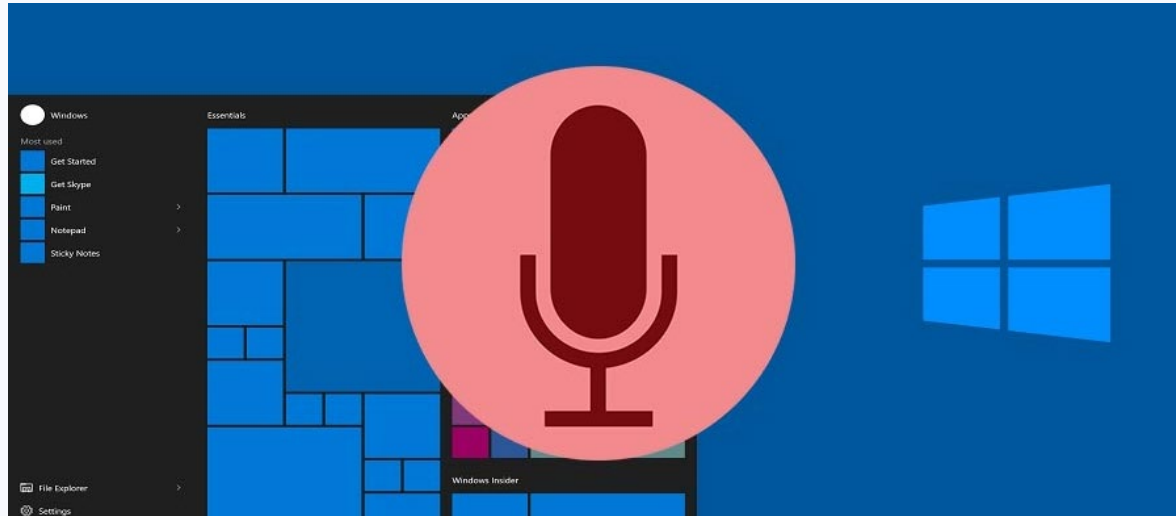
What's in the Box?

- More and varied options than there used to be
- Newer computers come with a (decent) screen reader and screen magnification options
- Voice control is becoming more prominent thanks to ubiquity in mobile platforms
- These items do not add to the cost
- JAWS, MAGic, Dragon and ZoomText

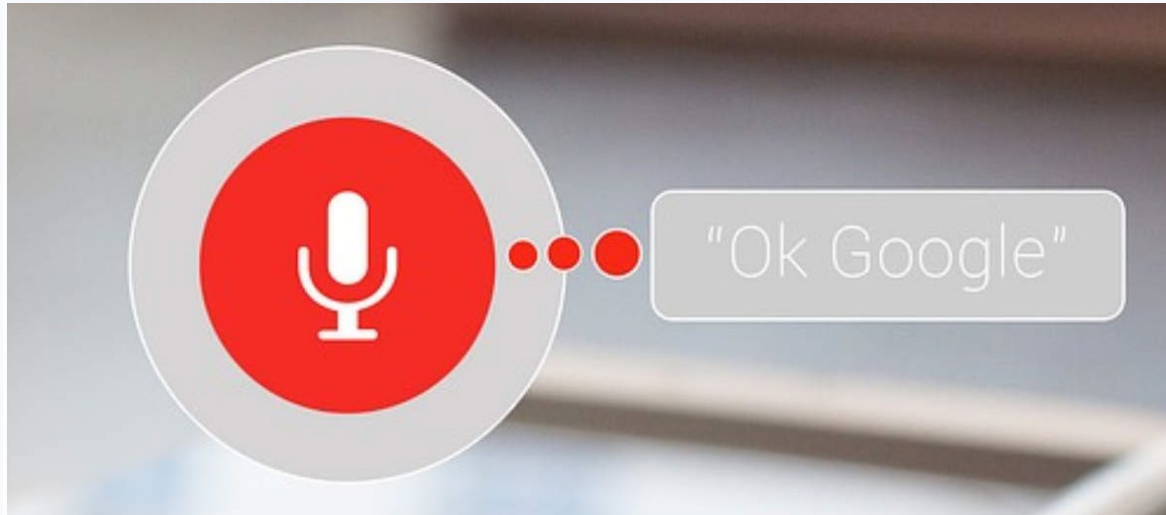
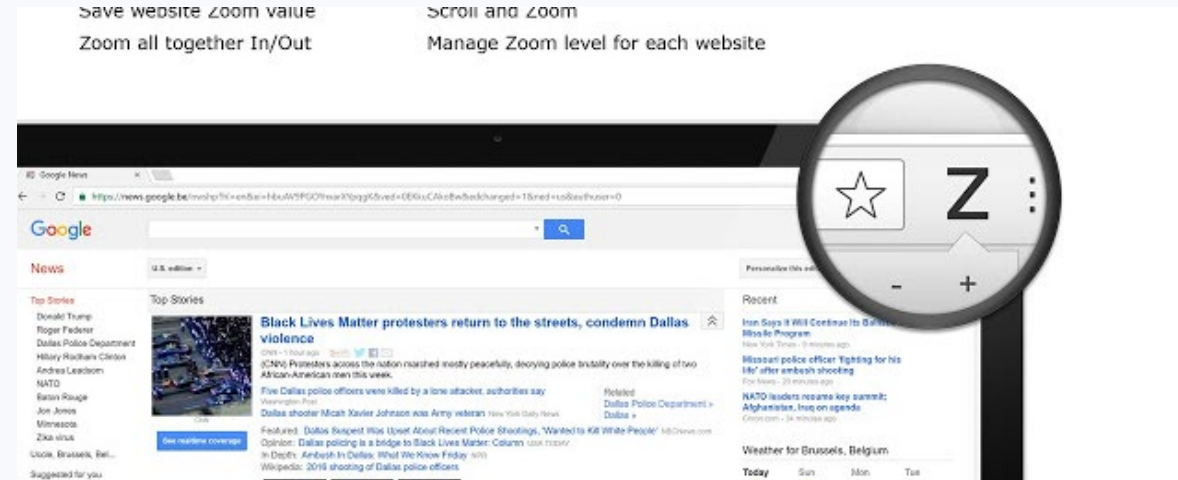
Mac



Windows



Chrome



Third Party Visual Access

- ZoomText - low vision access
 - \$500 for just magnification, \$700 with speech or \$80/year
- Fusion - Visual and Non-visual access
 - \$1,400 or \$140/year
- Dolphin Supernova - Visual support with speech
 - \$595

Freeware for Magnification

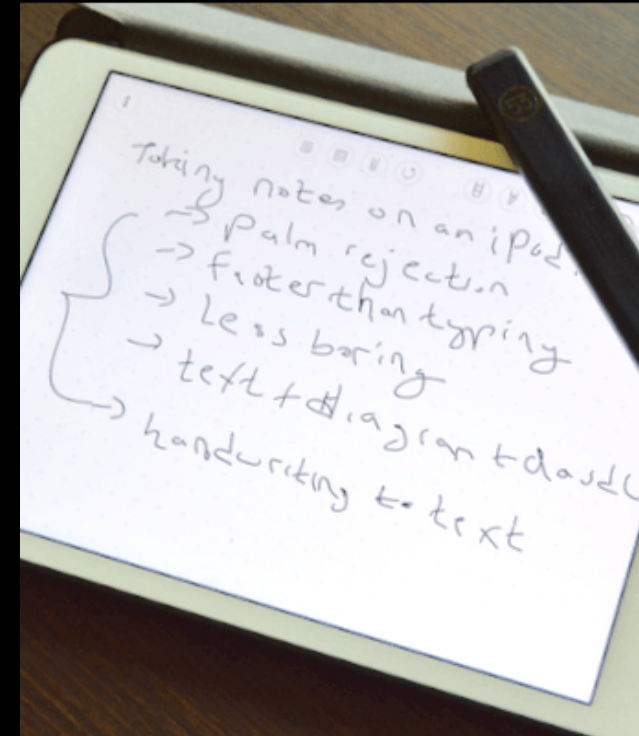
- Virtual Magnifying Glass
 - <http://magnifier.sourceforge.net>
 - Windows, Linux and Mac options, up to 32x
- Zoom +
 - <http://gipsysoft.com/zoomplus/>
 - Windows, up to 32x
- Dragnifier
 - <http://www.halley.cc/stuff/dragnifier.html>
 - Windows, up to 8x

Text Manipulation/Annotation

How to input?

Organizing/Annotating

1. GoodNotes - 7.99
2. Liquid Text - Free
3. Evernote - Free
4. OneNote - Free

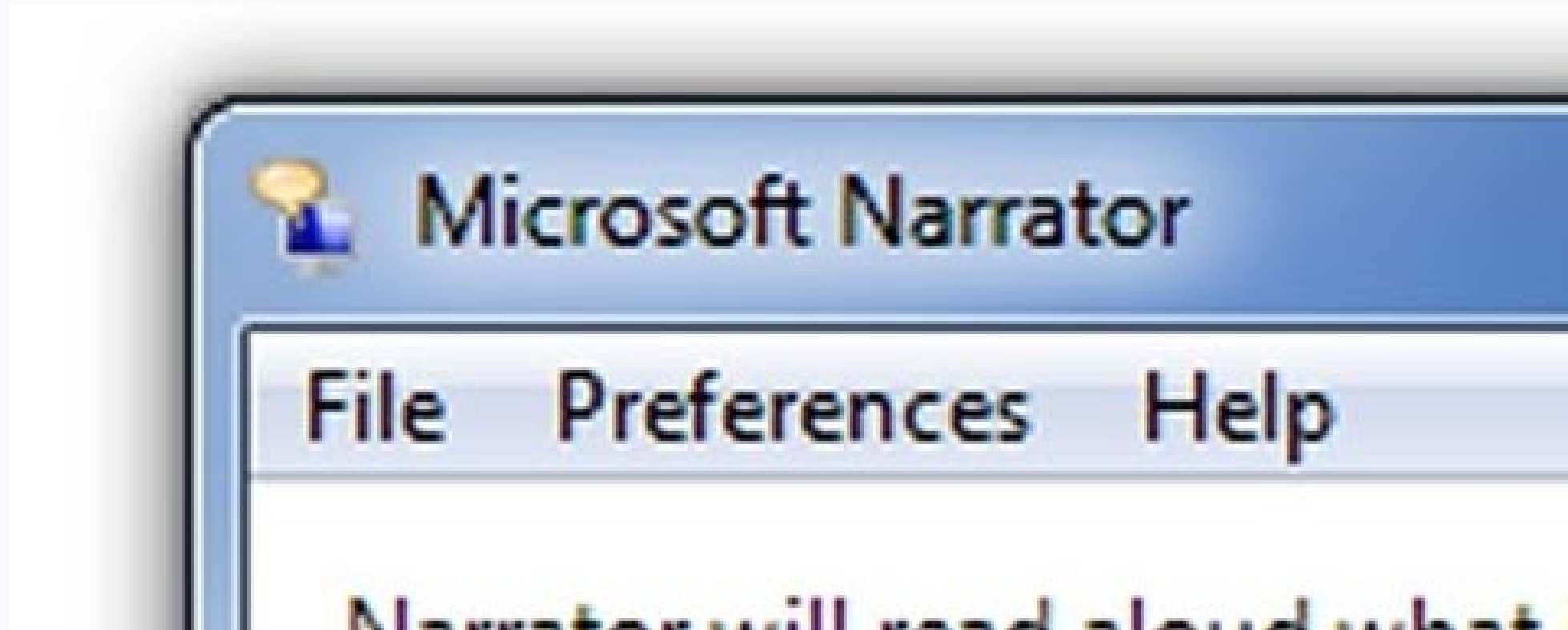


Questions?



Non-visual Access





ChromeVox



Third Party Screen Readers

- JAWS
 - <https://www.freedomscientific.com/products/software/jaws/>
 - \$1,000 or \$90/year
- NVDA
 - <https://www.nvaccess.org>
 - Free/donation
- Dolphin ScreenReader
 - <https://yourdolphin.com/products/individuals/screen-reader>
 - \$795

Optical Character Recognition

- Several Options and Various Price Points
- Handwriting can be tricky

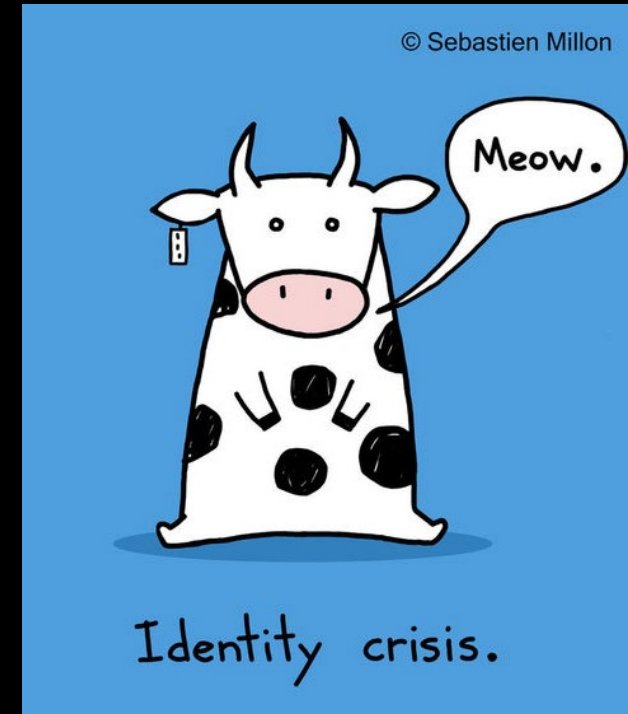
1. Seeing AI - Free (multi-function)
2. KNFB Reader - \$99
3. Office Lens - Free (great for students)



Apps for Identification

Using your camera to get descriptions

1. TapTapSee - Free
2. Google Goggles - Free
3. CamFind - Free
4. Seeing AI - Free



TFL App Finder Database

Search by:

- Price
- Category
- Operating system
- Free!

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Questions?



Accessibility On the Go

iOS

Features for Users with Low Vision

- Zoom
- Magnifier
- Display Accommodations
- Dynamic Text

Screen Accommodations

- Invert colors
- Color filters
- Reduce white point



Android

Visual Access



- Text manipulation (large font, font style, high contrast)
- Color manipulation (features for color blindness, inverted colors, color filters)
- Navigation of the screen (color IDs, button shapes, keyboard options, large pointer)

Funding Resources

The Association of Blind Citizens

Can cover up to 50% of the cost of a vision device

www.blindcitizen.org

Credit-Able, Georgia's Alternative Financing Program

Low interest loans for Georgians with disabilities

www.cfiiga.org

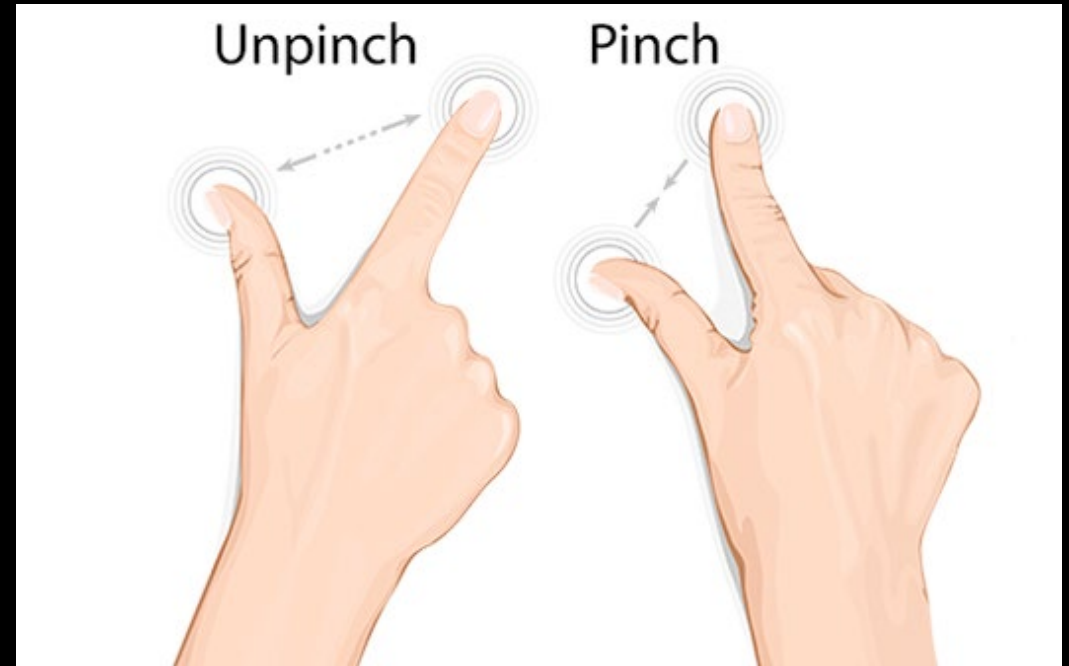
Georgia Vocational Rehabilitation Agency

Supports and services centered around employment

<https://gvs.georgia.gov>

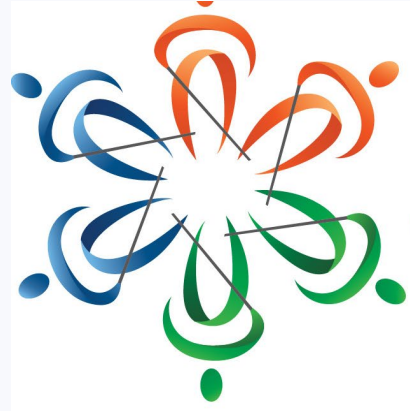
Magnifier

- Two options
 - Magnifier box
 - Full screen
- Full screen is easy to activate once selected in the accessibility (1 finger triple tap, maneuver with two fingers)
- Magnifier box can be moved around with two fingers



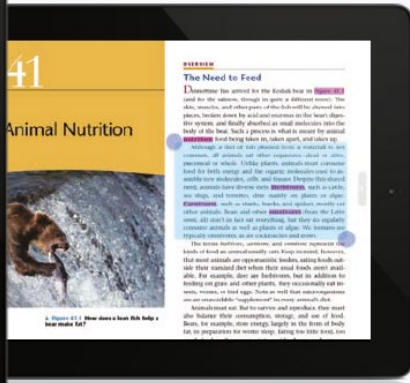
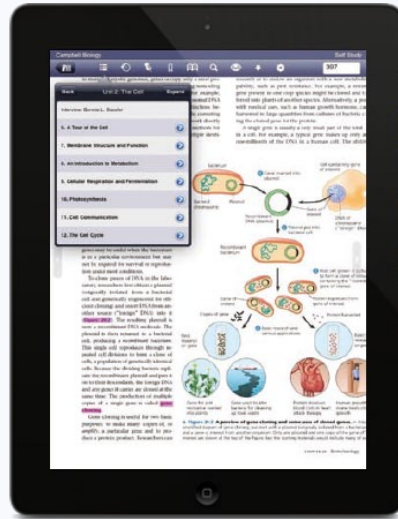


Don't Forget Alternate Formats



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Prompting
Readers
Relaxation
Scanner
Science
Screen Reader
Sign Language
Social Distancing
Speech
Spelling
Talking Calculator
Teleworking
Therapeutic Aids
Vision
Writing

Price:

☒ Free ☐ Up to \$4.99 ☐ Up to \$9.99 ☐ All

Device Type:

☐ Android
☐ iOS
☐ Microsoft
☐ Blackberry
☐ Chrome Extension

ASK

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ClaroCom Pro for iOS

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Manufacturer
Claro Software Limited

Description
ClaroCom Pro replaces speech for adults or children who have difficulty speaking but who have some or full literacy. The Pro version adds high quality voices, and it can load custom phrases, send text to other applications, and share the message display.

Augmentative and Alternative Communication (AAC) Features
[Add custom phrases](#)
[Share screen with others](#)
[Text entry for other programs](#)
[Text-based](#)

- Prototype version:
assistivesoftware.gatech.edu
- Narrow searches by different product features (e.g., add custom phrases).
- View Reviews, User Tips
- Check back in October for more functionality.

Questions?
Comments?

Tools for Life Team



Carolyn Phillips

Director, Tools for Life

carolyn.phillips@gatfl.gatech.edu



Liz Persaud

Program and Outreach Manager

liz.persaud@gatfl.gatech.edu



Danny Housley

AT Acquisition Manager

danny.housley@gatfl.gatech.edu



Martha Rust

AT Access Team Manager

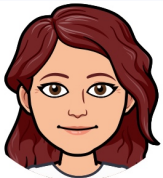
martha.rust@gatfl.gatech.edu



Gina Gelinas

Educational Outreach Manager

ggelinas3@gatech.edu



Rachel Wilson

AT Specialist

rachel.wilson@gatfl.gatech.edu



Tori Hughes

Outreach Specialist

tori.hughes@gatfl.gatech.edu



DeeDee Bunn

Speech-Language Pathologist

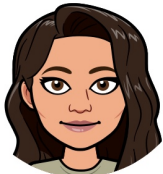
dbunn6@gatech.edu



Sam Peters

Program Specialist

speters37@gatech.edu



Ciara Montes

AT Specialist

ciara.montes@gatfl.gatech.edu



Ben Satterfield

Research Associate

rsatterfield8@gatech.edu



Sarah Endicott

Research Specialist

sarah.endicott@design.gatech.edu



Annabel Joyner

AT Lab Specialist

ajoyner8@gatech.edu



Sal Kibler

AT Services Intern

mkibler3@gatech.edu

Contact Us



Tools for Life, Georgia's Assistive Technology Act Program

Center for Inclusive Design and Innovation (formerly AMAC Accessibility)

Georgia Institute of Technology

1-800-497-8665

www.gatfl.gatech.edu

info@gatfl.gatech.edu



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