## Healthy Living with Assistive Technology

**Rachel Wilson** With contributions from the Tools for Life Team and Network

Tools for Life AMAC Accessibility Solutions and Research Center College of Architecture | Georgia Institute of Technology

www.gatfl.gatech.edu

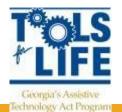
### Agenda



Technology innovations are emerging at a rapid pace from wearables to robotics and mobile apps to connected homes. Much of this technology holds great promise for the future of independent living.

Presenters will share information on Tools for Life, Georgia's Assistive Technology Act Program and how to access services. Other topics will explore products on the market that have the potential to improve independence and improve quality of life.

For Handouts: http://www.gatfl.gatech.edu/tflwiki

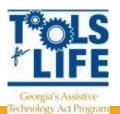


### **AMAC** Accessibility



AMAC creates practical solutions that work, with a focus on utility, ease of use, and high quality.

- Accessibility Consulting focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and website accessibility solutions.
- **Braille Services** produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology.
- **Captioning Services** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- **Professional E-Text Producers** provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- **Certified Assistive Technology team** provides on-site and remote assessments, demonstrations, training and technical assistance for education, work, and daily living environments.
- For more information, please visit our website at <u>www.amacusg.org</u>

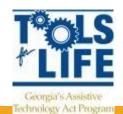


### **Tools for Life Mission**



Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work and play independently and with greater freedom in communities of their choice.





## Tools for Life & TFL Network

- TFL developed Georgia's Plan for AT
- We serve individuals of all ages & all disabilities in Georgia
  - Over 50,000 thru various activities throughout the year
- TFL Network
  - Assistive Technology Resource Centers/Outreach Sites
  - Lending Libraries
  - Training and Demonstrations
  - AT Reuse
  - AT Funding Education and Resources
- Online Resources
  - www.gatfl.gatech.edu



### The TFL Network is Growing!

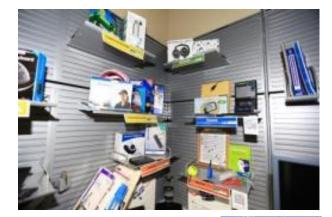


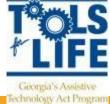


### TFL AT Demo Lab

- Tablets
- Vision & Hearing
- DME
- Communication
- Games
- Software
- Switches
- Keyboards
- More!











### What is Assistive Technology?

AMAC Accessibility for A

Assistive Technology Device is any item, piece of equipment or product that is used to increase, maintain or improve functional capabilities of individuals with disabilities. *Public Law 105-394 [29 USC 2201]* 

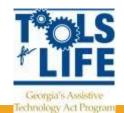
| <ul> <li>pencil grip</li> <li>adapted books</li> <li>slant board</li> <li>highlighters, tape</li> <li>color coding</li> <li>read to out loud</li> <li>picture schedule</li> <li>strategies for memory</li> <li>colored transparencies</li> <li>Proof readers</li> </ul> | Low/No-tech  | Mid-Tech   | High-Tech  |
|---|--|--|--|
| • note taker     • CCTV     • apps under \$100     • apps over \$100  | <ul> <li>adapted books</li> <li>slant board</li> <li>highlighters, tape</li> <li>magnifiers</li> <li>color coding</li> <li>read to out loud</li> <li>picture schedule</li> <li>strategies for memory</li> <li>colored transparencies</li> <li>Proof readers</li> </ul> | <ul> <li>text to speech</li> <li>speech to text</li> <li>spell checkers</li> <li>talking calculators</li> <li>digital recorders</li> <li>organizers</li> <li>e-books</li> <li>adapted keyboard</li> <li>adapted mouse</li> <li>adapted toys</li> <li>CCTV</li> </ul> | <ul> <li>tablets/phablets</li> <li>smartphones,</li> <li>smartpens</li> <li>OCR scanner/software</li> <li>magnification software</li> <li>speech output devices</li> <li>switch, joystick access</li> <li>scanning access</li> <li>voice recognition</li> <li>environmental<br/>control devices</li> </ul> |

### Why Assistive Technology?



- For a person without a disability, technology makes life easier.
- For a person with a disability, technology makes life possible.
- TIP: USE AT! We have yet to meet a successful individual who does not use any AT.







- Hearing
- Vision
- Neuro-sensory system
- Skeleto-muscular
- Intellectual functioning
- Social supports
- Influenced by genetics, lifestyle and environment

Normal Effects of Aging





### Hearing



- Natural deterioration
- Tinnitus
- Conversation, socialization, and communication impacted
- Ability may vary place to place
- Hearing aids often problematic

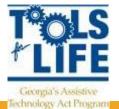






# Neuro-sensory and Skeloto-muscular Systems

- Changes in
  - Strength
  - Balance
  - Endurance
  - Range of motion
  - Sensitivity to temperature changes
  - Sensitivity to pain and trauma







### Intellectual Functioning



- Processing may take longer
- Long-term memory often better than shortterm memory
- Motivation varies to learn and do things differently











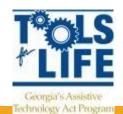








- Assistive Technology strategies and solutions can help support those living with disabilities, the aging population and those who have problems with:
  - speaking
  - hearing
  - seeing
  - moving around
  - getting places
  - memory
  - cognition (thought processes and understanding)
  - daily living activities, such as dressing and preparing meals
  - socializing.

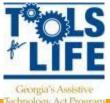


### Effective AT Assessment





- Uses a feature-match approach
- Incorporates on-going educational/life planning
- Hanging out with Intent
- Targets natural environments
- Utilizes the competencies of multiple team member
- Demands meaningful followthrough



### Assistive Technology Matching: A Team Approach

AMAC Accessibility for All

- The Person with the disAbility
- Circle of Support Family of Choice
- Case Managers
- Technologist
- Occupational Therapist
- Speech & Language Pathologist
- Physical Therapist
- Engineer

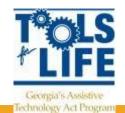


## Assistive Technology Funding Solutions

### AT Acquisition!



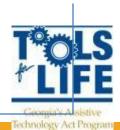
- Tools for Life endeavors to break down the barriers which prevent individuals with disabilities, their families, and service providers from acquiring and effectively using Assistive Technologies to gain greater independence.
- To insure that AT products are available to Georgians with disabilities
- Eliminate Funding Barriers



### Friends of Disabled Adults and Children -FODAC

- With a strong network of volunteers and partners, FODAC provides refurbished equipment and services improve their overall quality of life.
- Refurbished items can be cost effective
- FODAC is a partnering agency and have programs for:
  - Durable Medical Equipment
  - Home Mods
  - ReMount
  - Disposable Medical Equipment





www.fodac.org

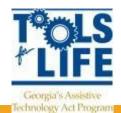
### **Dollars and Sense**



Your online funding guide



- Create and add resources
- Local, statewide and national
- <u>http://gatfl.gatech.edu//ds</u>



### What is Credit-Able?

- Alternative Financing Program for Georgia
- Low interest, small loans
  - \$250-\$5,000
  - Interest rate of 5-9%
- Used for:
  - Equipment
  - Software
  - Home mods
  - Vehicle mods







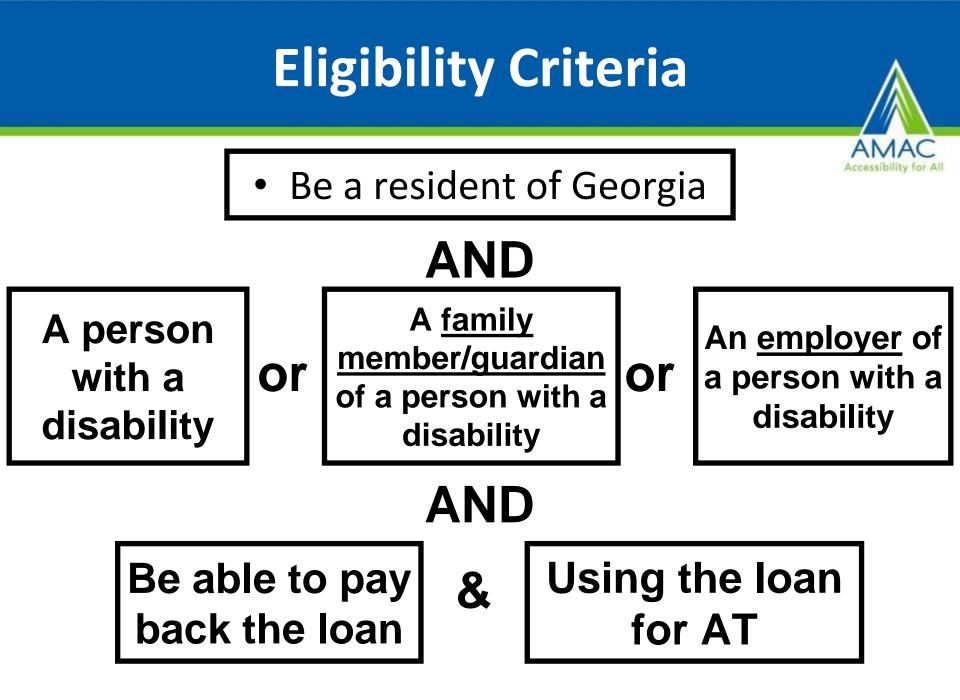
### Why Credit-Able?

- Flexibility
- Personal
- More accessible
- Build/re-build credit
- You save money









Exploring Assistive Technology Solutions

### AT for Hearing

### AMAC Accessibility for All

#### **Pocket Talker**

- Sound amplifier
- Decreases background noise
- Works for individuals with ADHD





#### **TV SoundBox Speaker Receiver**

- No more straining to hear your TV from far away
- Volume control works independently from your TV speaker
- Wireless and lightweight



### AT for Vision

#### **Illuminating Magnifier**

- 5x LED Lighted
- Compact

#### **Magnifier Sheet**

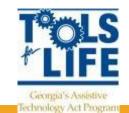
- Hands-Free
- 3x Magnification



### 20/20 Vision Panoramic

Rearview Mirror







### AT for Self Feeding



#### **Non-Slip Placemat**

- Keep plates/ items from moving
- Use on Roller walkers
- Cut to fit



#### **Freedom Dinnerware**

- Low vision, Alzheimer's, Arthritis, Stroke
- Suction keeps from moving
- Helps with getting food on utensils





### AT in the Kitchen

- Adapted Cutting Board
  - One-Handed
  - Low-Vision
- The KFS Easy Eat Fork
  - Lightweight utensil
  - Rocker knife
  - One-handed or limited grip
- Rocker Knife
  - One handed cutting











### Health and Safety

- EpicID Emergency ID Band
  - Easy for first responders to access
  - Salt water safe USB with a durable stainless steel clasp and USB cover
  - No subscription or internet connection is required
  - Plug this USB into your computer and input or update your personal information medical history and insurance information
  - Both PC and Mac compatible

#### • Health Smart Thermometer

- Compact and easy to hold
- Talking thermometer Large, backlit LCD screen with LED fever alarm indicator 30-reading memory storage
- Date and time display
   Fahrenheit/Celsius switchable







### Memory





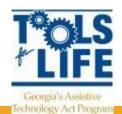


#### **Reminder Rosie**

- Alarm Clock
- Personal Voice Reminder
- Easy to use

#### **MedCenter System**

- Organizer with Reminder System
- Monthly display
- Alarm
- Talking

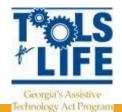


### **Dressing and Bathing**



- Sock aid
- Elastic shoe laces
- Dressing stick
- Long shoe horn
- Long handle bath sponge





### Personal Assistance

#### Freedom Wand

- Toileting
- Hygiene
- Grooming

#### **Home Bed Assist Handle**

- Slides under mattress
- Provides a safe, secure grip for getting in and out of bed







### Mobility & Transportation

#### Silicone Seabolt Reach Extender Helper

- Makes Gripping and Pulling Seatbelt Easier
- **Deluxe Swivel Seat Cushion**
- Convert stationary chairs into swiveling chairs to reduce the strain on your back and hips. The seat cushion swivels 360 degrees for smooth, easy movement in either direction.
- Great for home, office or travel use; easily get in and out of vehicles
- Portable and lightweight yet supports up to 300 pounds
- Non-skid, flexible swivel base contours to seat and stays in place.

#### Handy Bar

- Automotive standing aid
- Emergency escape tool Window breaker









### Recreation











### **Computer Access**







### Zoom Text Keyboard

- Large Yellow Keys
- Easy to See
- USB Port

### **Heated Mouse**

- Infrared Heat
- Carpal Tunnel/Arthritis
- Works well in colder weather

Trackball

Improves control while reducing to LS hand and wrist motion



echnology Act Pr

### **Communication Tools**

- Low Tech
  - Symbols
  - Comm boards, wallets, rings etc.
- Mid Tech
  - Single Message
  - Sequenced Messages
  - Static Display Devices
- High Tech
  - Dynamic Display
  - Icon Sequencing





### Communication

- Go Talk 9+
  - is lightweight and rugged
  - 45 message capacity and five recording levels
  - three "core messages" which stay the same on each level so you don't need to re-record essential messages for each level





# Emergency

### **Serene Innovations Kit**

- The text and alerts you to public emergency broadcasting warnings of impending emergencies or disasters.
- Includes wearable unit, doorbell, home/cell phone ringer/flasher, and bed shaker.

### **Personal Pager**

- Alert family/caregiver for assistance.
- Alert with time or vibration.
- Wireless transmitter up to 100 feet.

### Safety Tape for Low Vision (Yellow)

- Easily and clearly marked hazardous areas to prevent injuries.
- \$3.00







### VGo Telepresence Robot

 Enables a person to replicate themselves in a distant location and have the freedom to move around as if they were physically there.

- Reduces travel costs.
- School, hospital, work from home opportunities.





# Kubi

- Telepresence
- Uses a tablet
- Uses free conference sites
  - Google Hangout
  - FaceTime
  - Skype









# Magnifiers

AMAC Areastibility for All

- Lots of different types
- Handheld
- Some with a LED Light
- Full Page













- Maps all of the digital things in your life
- Place a pixie chip on any device and map will tell you it's precise location
- https://www.getpixie.com/



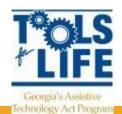


### iBeacon Technology



- Estimote Beacons
  - Wireless sensors that attached to any location or object
  - Broadcasts radio signals to smartphone
  - <u>https://www.youtube.com/watch?v=lwnmx-</u> <u>5mBLM</u>



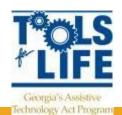


### Lechal



- Haptic Footwear
- Uses GPS to let you know
- Connects with app
- <u>www.lechal.com</u>





### **Assistive Listening Devices**



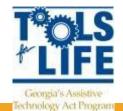
• Audio/Hearing Loop

• Infrared System

• FM System

• Wearable device



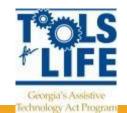


### Visual Alerts

AMAC Accessibility for All

- Visual doorbells
- Flash on your cellphone
- Smoke/carbon monoxide
- Flashing computer screen





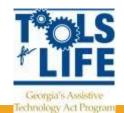
### **Physical Alerts**

• Haptic alerts on phone and wearables

• Vibrating alerts

Bed shaker





### Watchminder

- Rechargeable battery
- 65 pre-programmed messages to (
- 30 daily recurring alarms
- Create your own personalized mes
- Helpful training and reminder mod
- Vibrating alert







### **GPS Tracking Devices**



- Find My iPhone
- Find My Friends

#### 10 Tracking Devices that Keep Loved Ones with Dementia Safe



Wandering adds more confusion to the lives of those already

dealing with a disorienting disease, and leads many people with Alzheimer's or dementia into unsafe situation Location and elderly GPS tracking devices for dementia are an increasing option for families and caregivers trying to reduce wandering.

Here are 10 location devices that are being used to keep loved ones with the disease safe:

#### 1. iTraq

A new cellular tracking device that came out this year, iTraq is the "world's first global location device that care found anywhere " It uses cellular towers to determine location, allowing it to be used anywhere there is servic around the world. The device itself is as small as a credit card, and its location is reported to you through a mobile application which allows you to view a map of locations and timestamps. iTraq also features a "Guard Mode" where users can specify a radius on a map, then receive alerts if/when the iTraq goes beyond your priset radius. This means that you could receive notification if a loved one wandered from home, and also be at to track where they are with accuracy.

#### 2. Project Lifesaver

Fulfilling their mission to "provide a timely response to save lives and reduce potential injury for adults and children who wander due to Alzheimer's, autism and other related condition or disorders," Project Lifesaver's GPS tracking program has helped rescue 2,983 people. We spoke with Gene Saunders, Chief Executive Offi and Founder of Project Lifesaver, who shares more about the technology – a small PAL (Protect and Locate) tracker worn around the wrist – that has saved so many from wandering, "Citizens enrolled in Project Lifesaver a small personal transmitter around the wrist or ankle that emits an individualized tracking signal. If an enrolled client goes missing, the caregiver notifies their local Project Lifesaver agency, and a trained emerger team responds to the wanderer's area. Most who wander are found within a few miles from home, and search times have been reduced from hours and days to minutes. Recovery times for PLI clients average 30 minutes 95% less time than standard operations." Saunders adds. "Recently, Project Lifesaver has added a new technology... that can also provide a radio frequency safe zone around them that notifies the caregiver in the event an at risk individual breaches this established safe zone."

#### 3. Mindme

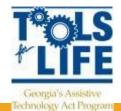
Mindme offers assistance to families dealing with dementia and wandering in the form of both an alarm and



### **B-Calm**

- "acoustic shield", allowing the individual to have control of the sound environment
- helps reduce off task behaviors and irritabil
- disturbing noises are blocked and replaced soothing sounds





# Snug Vest

- inflates to provide adjustable and evenly-distributed pressure to the torso for a comforting hug-like squeeze without pressure placed on the stomach or chest.
- promotes independence as the user ca way to get the exact amount of safe pa enables the user to complete daily tas





## Simple Safety Solutions

 Anywhere lighting: "Stick-n-click" or motion detection lighting can illuminate darken hallways or dark staircases



 Organize cords by using toilet paper rolls. Cost efficient!

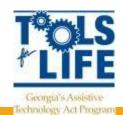


• Skid-resistant rugs



 Smoke alarms for deaf/hard of hearing





## AT for ADL

- Non-Slip Placemat
  - Keep plates and other items from moving
  - Use on roller walkers
  - Cut to fit



- Freedom wand
- toilet aid



- Freedom Dinnerware
  - Low vision, Alzheimer's, Arthritis, stroke
  - Suction keeps plate from moving
  - Helps with getting food on utensils







### Does this look familiar?



- How many prescriptions?
- How are they managed?







### **Medication Solutions**

#### MedCenter

- Organizer with Reminder System
- Monthly display
- Alarm
- Talking

#### Pillpac.com

- Organized pills packaged by pharmacy
- Sealed pouches for each day
- Time stamped
- Lessen medication errors

#### www.alzstore.com

- Holds 29 doses
- Set up to 4 alarms each day









## **Telephone Options**

### **Future Call**

- Amplified Picture Memory Phone
- Amplified Volume Up To 40dB
- Hearing Aid Compatible
- One-Touch Emergency Button
- Easy-To-See Oversized Photo Buttons
- Bright Visual Ringer

### **Clarity Picture Phone**

- Amplified Picture Memory Phone
- Amplified Volume Up To 18dB
- Hearing Aid Compatible
- Easy-To-See Oversized Keypad Buttons
- 9 Programmable Photo-Dial Memory Buttons
- Bright Visual Ringer









### **Amazon Echo**



### amazon echo

Always ready, connected, and fast. Just ask.



- Speech-controlled speaker system
- Voice recognition further distances
- All functions are server side
- Compatible with many EC Brands
- \$179.99









- Wifi Connected
- Dimmable
- Displays Over 16 Million Colors
- Compatible with Amazon Echo
- Color Starter Kit \$174.99



## Xbox One with Kinect



- Control your
   entertainment with your
   voice
- Netflix, Skype, Youtube, Internet Browser, Music, Television, etc.
- Gesture Control
- Price varies depending on bundle.
- Xbox One ~ \$<del>350</del> \$299

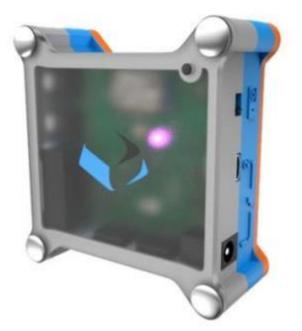
Georgia's Assistive Technology Act Program

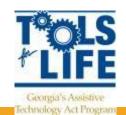
• Kinect ~ \$100

### **Tecla Shield**



- Wireless device that controls smartphones and tablets using your external switches or the driver controls of your power wheelchair
- The only switch interface that works with both iOS<sup>®</sup> and Android mobile devices.





# **TFL Gaming Initiative**

- AMAC Accessibility for All
- Tools for Life has recognized the importance of play and is starting an initiative dedicated to gaming with disabilities. Some objectives of the program are:
  - Demonstrate the accessibility of gaming
  - Build relationships with developers and aid in creating more accessible games
  - Increase public awareness of the importance of accessibility in games
- There are many benefits to playing games
  - Improved Hand/Eye coordination
  - Increased problem solving and cognitive function
  - Better handle stressful environments
  - Social outlet



## FRU





- FRU is a puzzle platformer that features an innovative use of Kinect, in which your silhouette becomes a "portal" between two worlds.
- Encourages physical movement, activity, and cognitive function.
- Can be played individually of cooperatively.



## Boogie Dice





- First self rolling, sound activated, programmable dice.
- Activated using sound.
  - Clap, snap, thump
- Set roll duration, LED colors and more.
- Smartphone app can also be used to activate the dice.

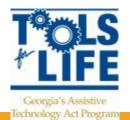


# TFL AppFinder



#### Search by:

- ✓ App Name
- ✓ Categories
  - Book
  - Education
  - Environmental Adaptations
  - Hearing
  - Cognition, Learning, Developmental
  - Navigation
  - Personal Care and Safety
  - Productivity
  - Communication
  - Therapeutic Aids
  - Vision

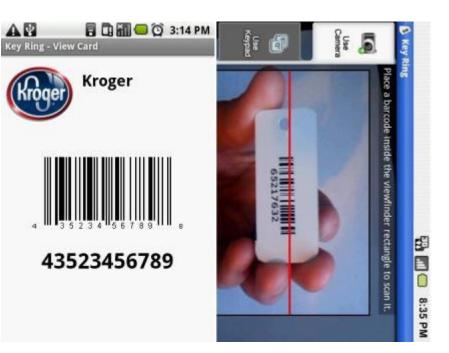




### Key Ring



- One Place to store all reward cards
- Organized
- Android & Apple <u>www.keyringapp.com</u>
- Free!





### Fooducate

AMAC Accessibility for All

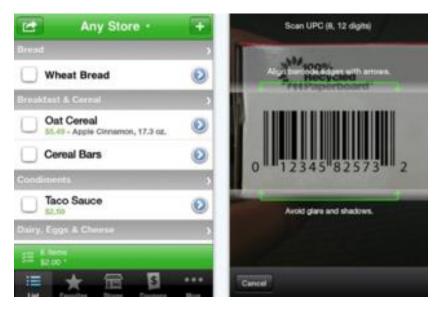
- Track calories
- Provides healthier options
- Educates on food ingredients
- Create lists
- App for allergies and glutenfree
- App for diabetes nutrition
- Free
- www.fooducate.com

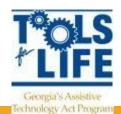




# Grocery IQ

- Pictorial shopping list
- Customize different lists for different users using pictures on camera roll
- Add your own items and categories
- Assign item prices
- Assign item locations (for example, aisle numbers)
- Several accessibility options
  - text-to-speech
  - uses large easy-to-see images
  - item prices automatically totaled
- \$4.99



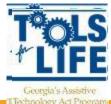




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| .7123 |   |   |                   | .7123            |            |

- Records your notes, meetings or lectures
- Can take notes by typing, stylus, or drawing
- Time stamps so you can go directly to where you want to hear
- Highlights notes when read back





# **Reading Apps**

### **Free Books**



- Free
- Over 23,000 titles
- Audiobooks

### Newspaper



- Free
- Newspapers from 150+ countries
- Over 20,000newspapers

### Overdrive Media Console



- Must have library card
- Download ebooks and audiobooks



### BARD Mobile



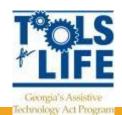


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#### ACKNOWLEDGEMENTS



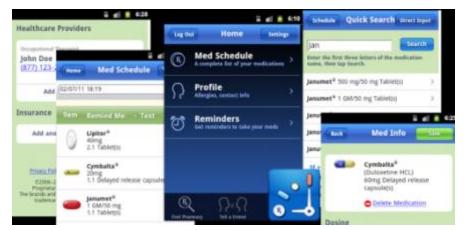
- Access directly to the National Library Service for the Blind and Physically Handicapped (NLS)
- Must be registered
- Settings
- Can use with braille display
- http://www.loc.gov/nls/find.html
- Free, iOS



#### MyMedSchedule



- Keep track of medication
- Reminders
- Refill Reminders
- Healthcare Provider Profiles
- Insurance Information
- Allergies
- Works across Platforms
- Free
- <u>www.mymedschedule.com</u>





# ICE - In Case of Emergency

- Emergency contact list
- Central place for you to record any medications
- List allergies or medical conditions
- Pre-loaded medical information to choose from
- Free
- <u>www.ice-app.net</u>





# Pacifica





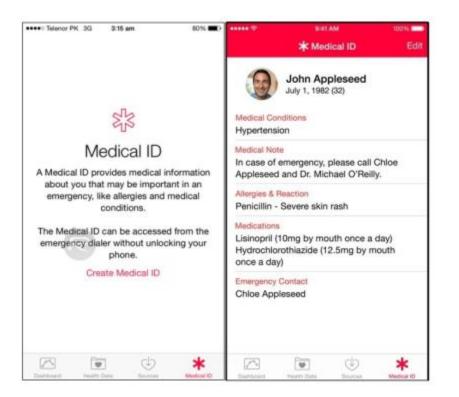
- Monitor and track mood, anxiety and depression.
- Choose from several methods of relaxation.
- Connect with others for support in real time.

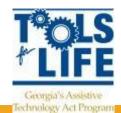




# Apple iPhone Medical Id

- New
- Create Medical ID
- Can be used without passcode
- Medical Conditions
- Medications
- Emergency numbers
   Can call
- Organ Donor
- Blood Type





## Calendars



#### **COZI Family Organizer**

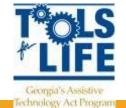
- Family Calendar: Easy to use color-coded calendar, see individual schedules or the whole family at once
- Reminders: Set reminders for anyone in the family and get a weekly email of upcoming appointments
- Shopping and To Do Lists: Create as many lists as you want and access them anytime, anywhere
- Meals and Recipe Box: Easy to use dinner planner, plus store all your favorite recipes
- One Account for the Family: Everyone's schedules and lists in one place the whole family can access





# Apps for Mood/Emotion Management

- Operation Reach Out (free iOS, Android)
  - Developed by military to prevent suicide
    - Helps access thinking and when to reach out for help when in crisis
- T2 Mood Tracker (free iOS, Android)
  - Allows users to monitor moods on pre-loaded scales
- MindShift (free iOS, Android)
  - Tools for relaxation; develops new thinking; suggests healthy activities
- Breathe2Relax (free iOS, Android)
  - Uses guided breathing exercises to reduce anxiety



### **Anxiety Management**

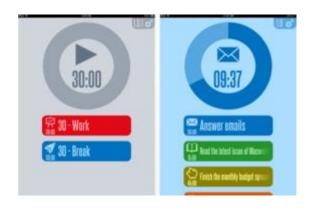
- Self-Help for Anxiety Management or SAM (free iOS, Android)
  - Tell the app how you're feeling, how anxious you are, or how worried you are.
  - Self-help features walk you through some calming or relaxation practices.
- iZen garden (\$4.99, iOS)
- Koi Pond (\$1.00, iOS)



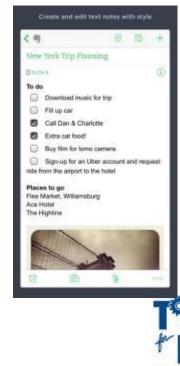


## Task Management

- Evernote (free, iOS, Android, Windows)
  - allows you to store text, photos, and audio notes on your device of choice.
     Create "notebooks" and categorize notes for meetings and to-do lists. Notes are tagged with geo-location for mapping or search. Keep all info in one place
- 30/30 (free, iOS, Android, Windows)
  - Set up tasks and time needed to complete
  - App will tell you when to move onto next task









Georgia's Assistive fechnology Act Program

# Apps for Sleep Management



- Sleep Time-Alarm Clock (free, iOS, Android)
- Sleep Cycle (\$1, iOS, Android)
- Sleepbot (free, iOS, Android)



Monitors sleep habits

Uses accelerometer in the smartphone, tells you how quickly you fall to sleep, when you enter each phase of sleep, and how efficient each sleep cycle is. The app gently wakes you up at the right time, not in the middle of a deep sleep.





### iZen Garden



- Choose from 100s of objects, plants and creatures to place in your garden
- Rake the sand and share your creations
- Helps you to center your mind, relax your psyche and relieve your stress



# Questions











# The Tools for Life Team





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