

Language and Literacy for People with Low Vision and Dyslexia

SPEVI
Brisbane
January 2017

What we'll cover

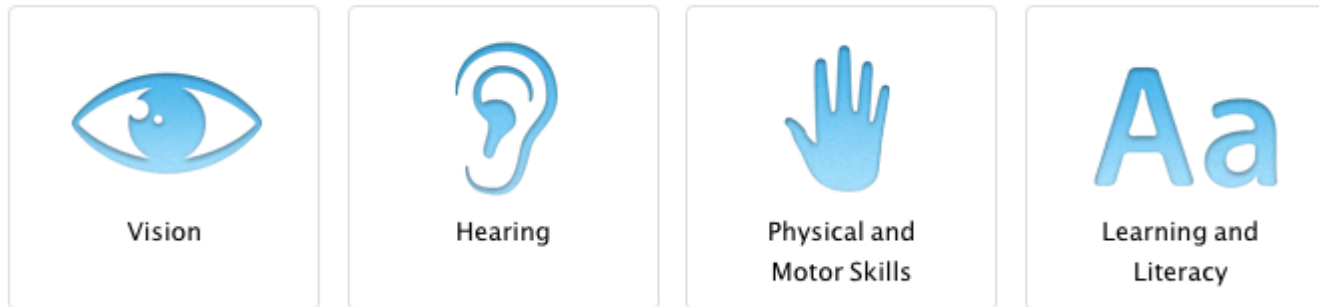
- What are SPEDs?
- Accessibility features of iOS devices
- Apps and accessories made to support individuals with a special need
- Apps which can be repurposed to support individuals with a special need
- Resources

Specific Learning Disabilities/Disorders/Difficulties/Differences

- Dyslexia (reading), Dysgraphia (written expression – motor based or language based), Dyscalculia (mathematics)
- Executive Functioning
- ADHD
- In common: neurological in nature
- Often in common: attention difficulties, poor working memory, poor organisation
- Impacts not just spelling and reading but background knowledge, comprehension, vocabulary, speed, ability to complete assessment, self esteem.
- Best practice is early intervention with evidence based methods and accommodation
- UDL – Universal Design for Learning

Why iPad?

- Apple showcases accessibility
- Market share – availability and quality of apps and devices
- Other devices – Android, smart phones, Windows



Jargon/Practicalities

- iOS
- Accessibility
- Basic navigation
- Wi-Fi or no Wi-Fi?
- Cellular or no cellular?
- Storage capacity
- Apple Care and Apple Care +
- App Store (and Categories)
- Apple ID
- Work vs play



Designing AT solutions

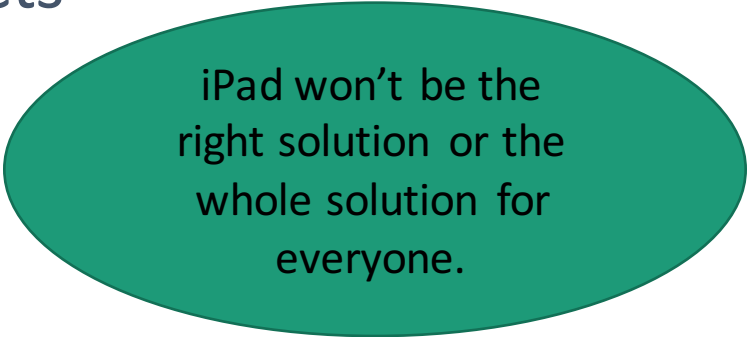
Edyburn - five essential variables must be taken into account:

- the person,
- the task,
- the context/environment,
- the technology tool,
- the outcome

Edyburn, D.L. (2009). Using research to inform practice. *Special Education Technology Practice*, 11(5), 21-28.

Designing AT solutions

- the person – particular challenges and strengths
- the task – what are they trying to achieve in this instance?
- the context/environment – school/home/work, Wi-Fi or no Wi-Fi, quiet or noisy, support or no support, rules to abide by
- the technology tool – cost, portability, ease of use
- the outcome – longer term or deeper effects

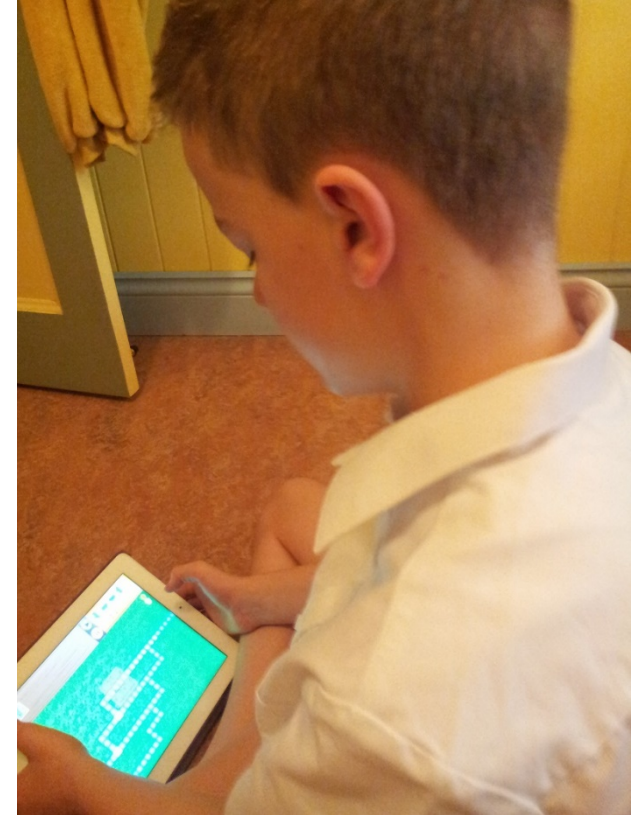


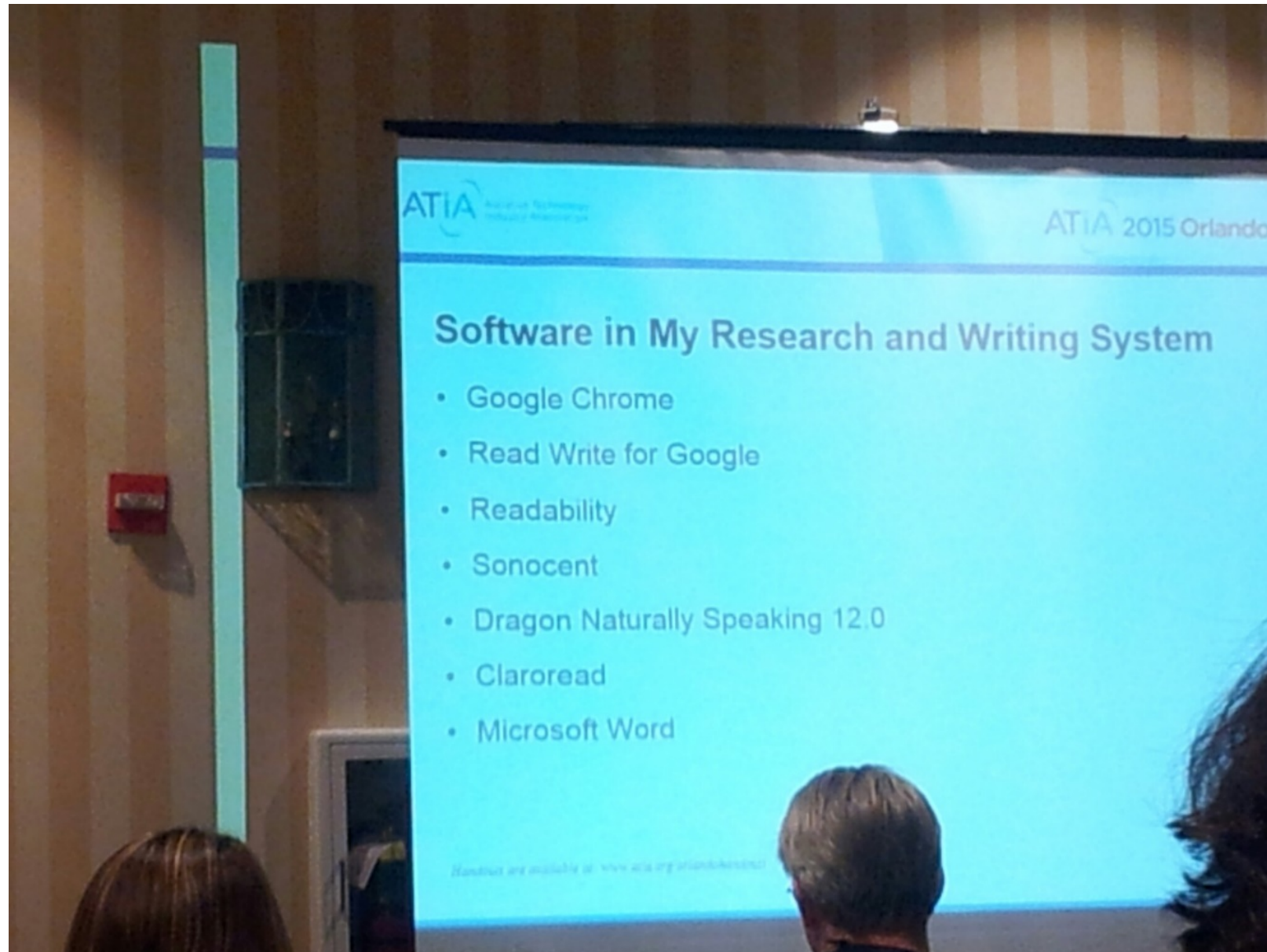
iPad won't be the right solution or the whole solution for everyone.

Aim

- Smooth and seamless
- Personalised
- Able to be self-operated and self-maintained as much as possible

This takes time, negotiation and adjustment along the way!

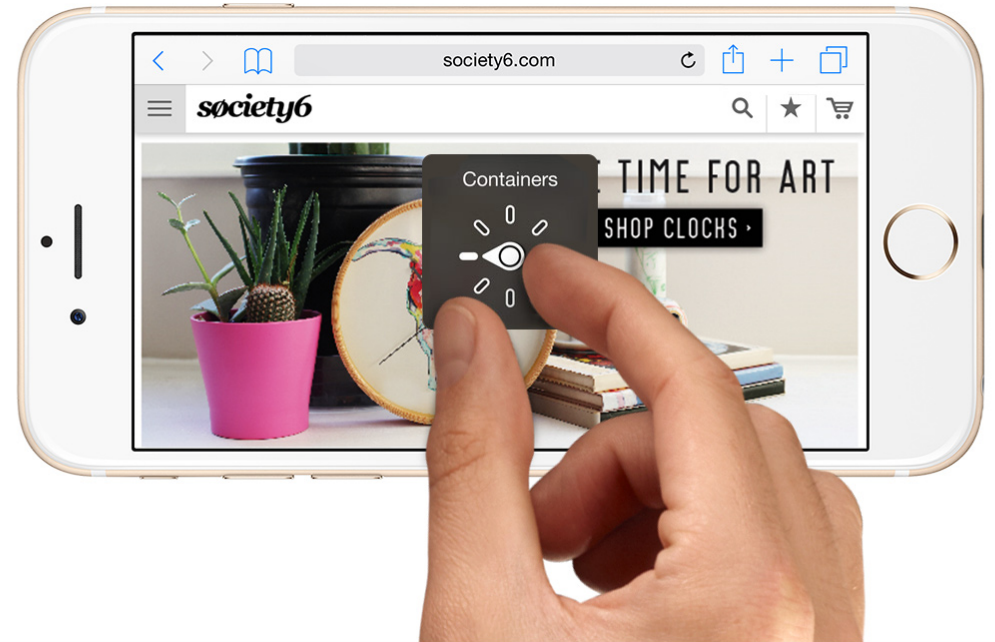




Jacqui Kirkman Mac & PC Doctors

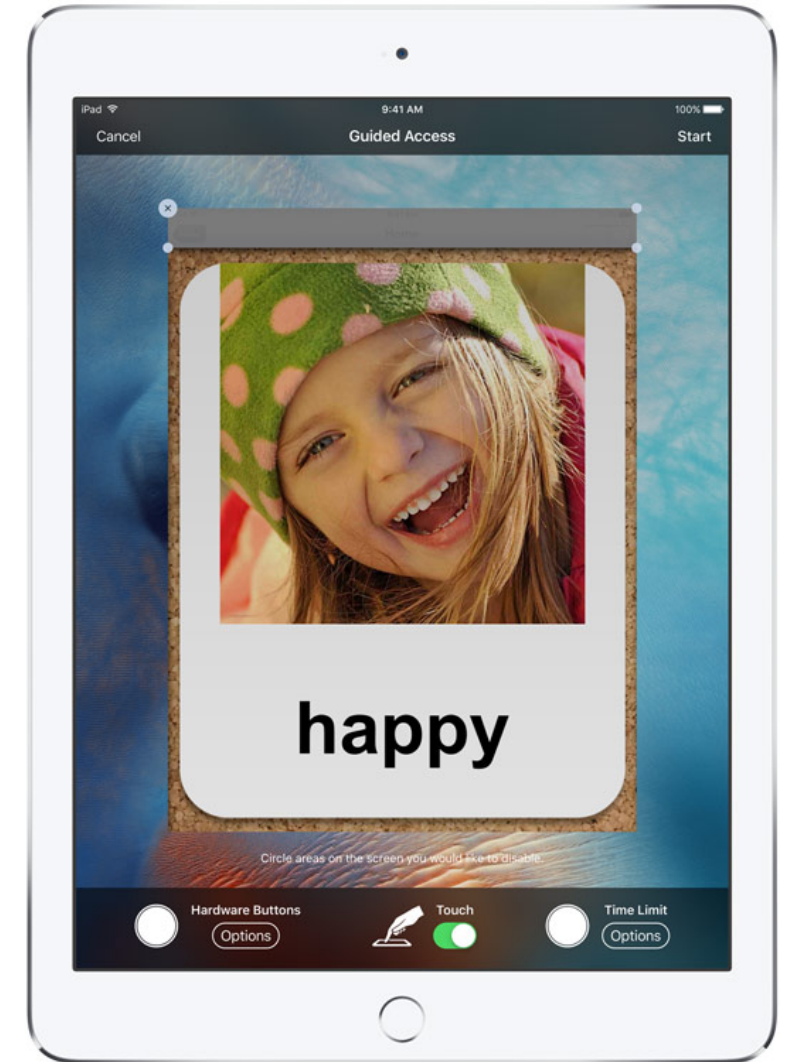
Inbuilt Accessibility Features - Vision

- Voice Over (with Braille option)
- Speak Screen and Speak Selection
- Siri
- Dictation
- Magnify and Zoom
- Display Accommodations
- Font Sizes
- Pronunciation Editor
- Clips on website here <http://macandpcdoctors.com.au/accessibility/vision/>

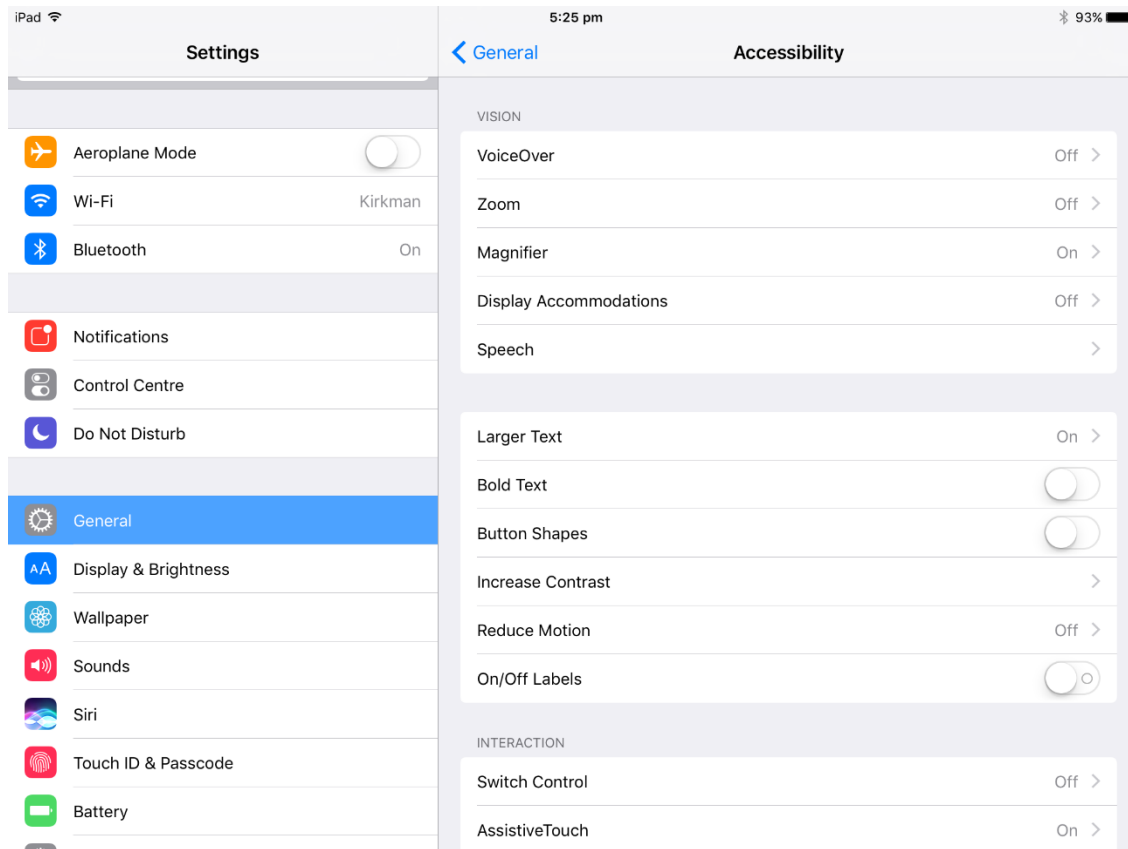


Inbuilt Accessibility Features – Learning and Literacy

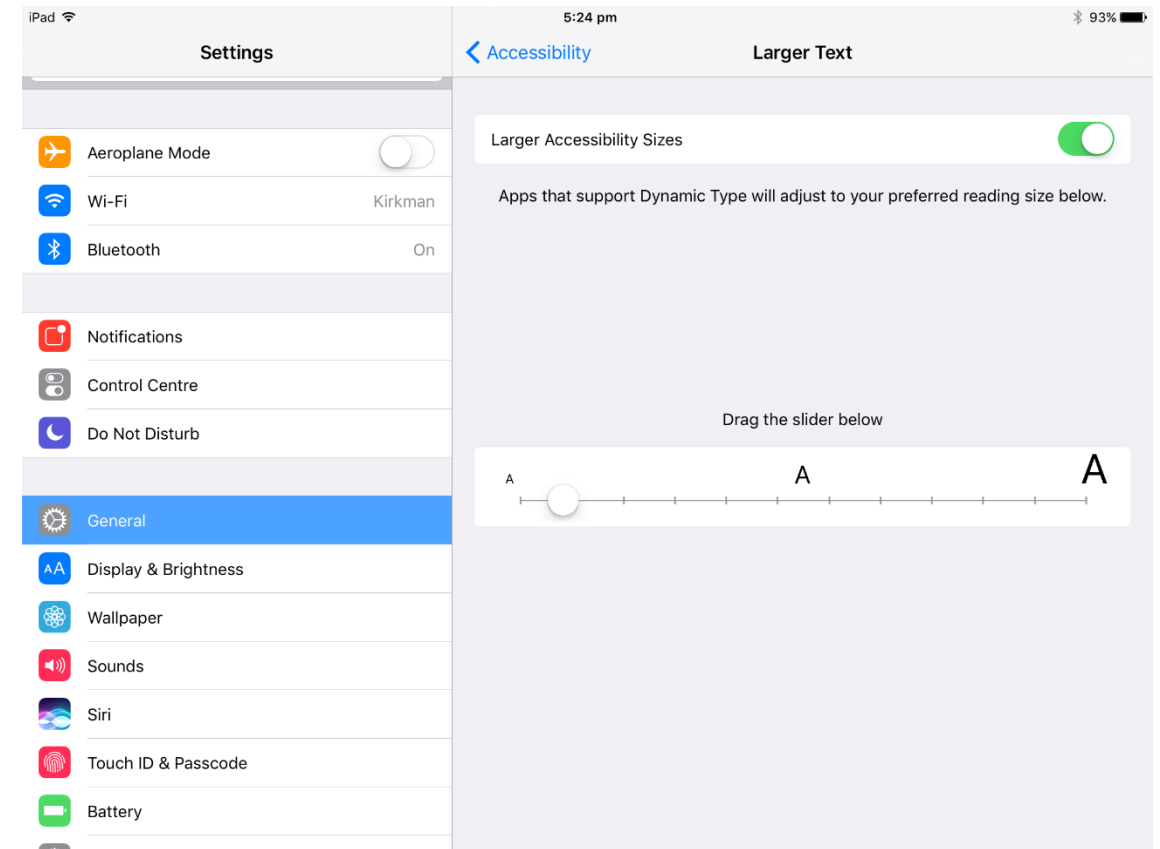
- Speak Screen and Speak Selection
- Siri
- Dictation
- Predictive Text
- Typing Feedback
- Dictionary
- Safari Reader



Display accommodations

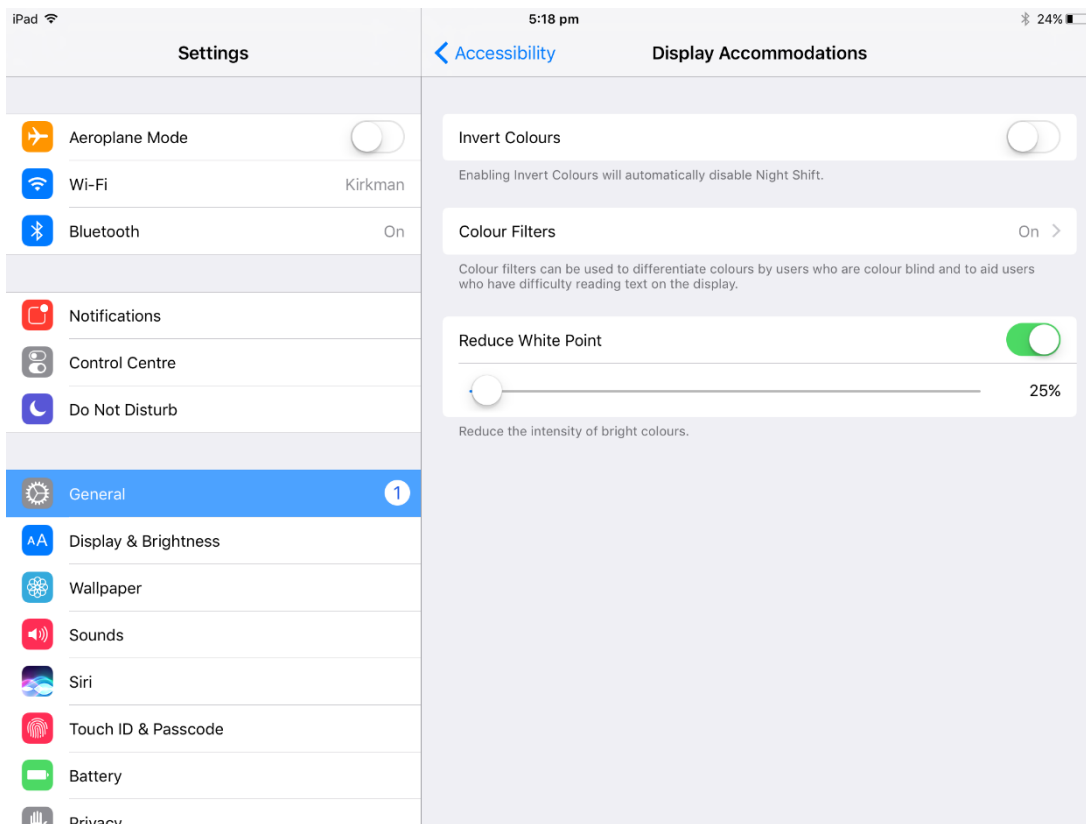


Adjustable font size

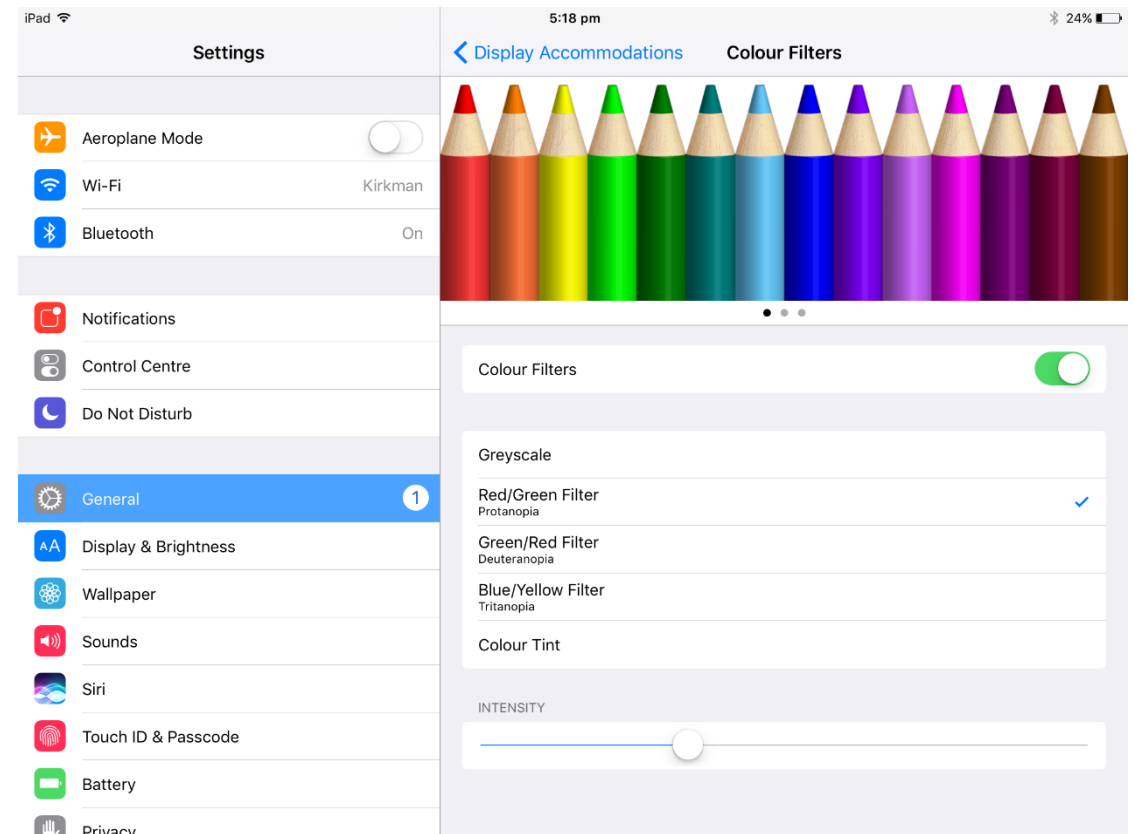


Display accommodations - colour

Reduce white point



Colour filters



Display accommodations - colour

Invert colours

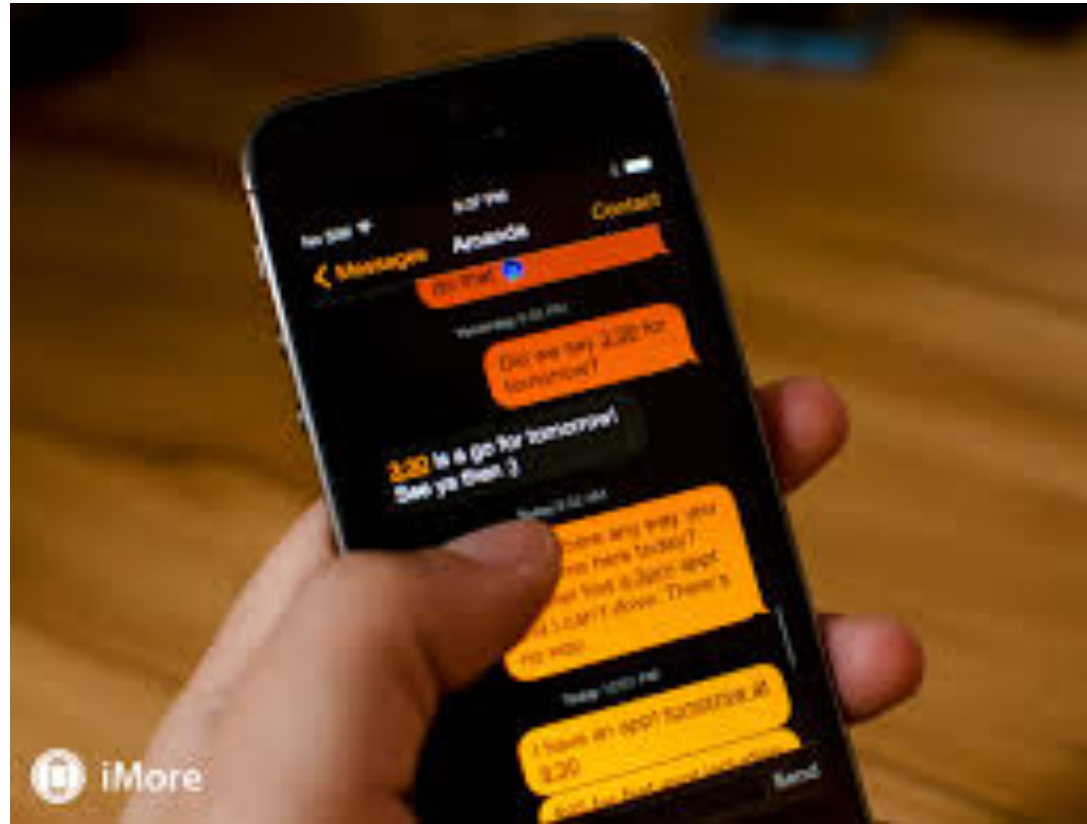
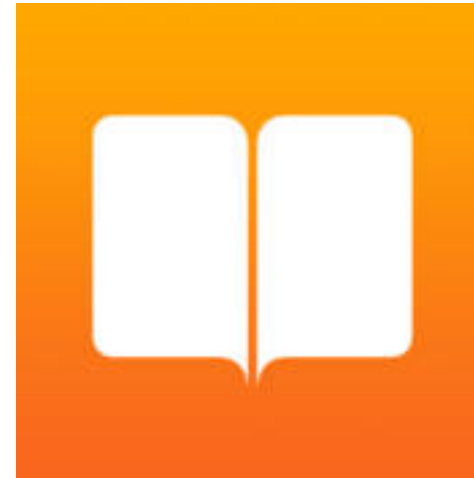


Photo courtesy of iMore.com.

Can't get a screenshot!

Other “out of the box ”Accessibility Features

- Reminders
- Notifications
- Integration with other Apple devices including Apple Watch
- iBooks



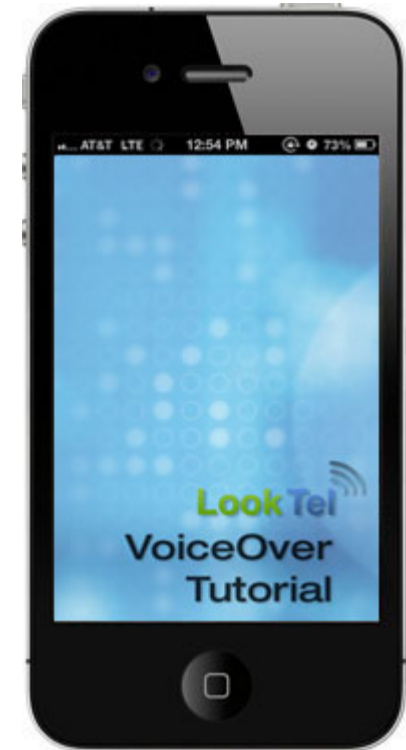
Apps/Online tools for Developing Spelling and Reading

- Nessy (online) and Hairy Phonics apps
- Reading Doctor
- OzPhonics
- Reading Eggs



Apps for Learning Voice Over

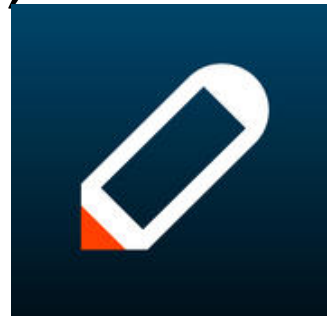
- VO Starter
- LookTel VoiceOver Tutorial
- Ballyland Magic App



Working with text - Writing



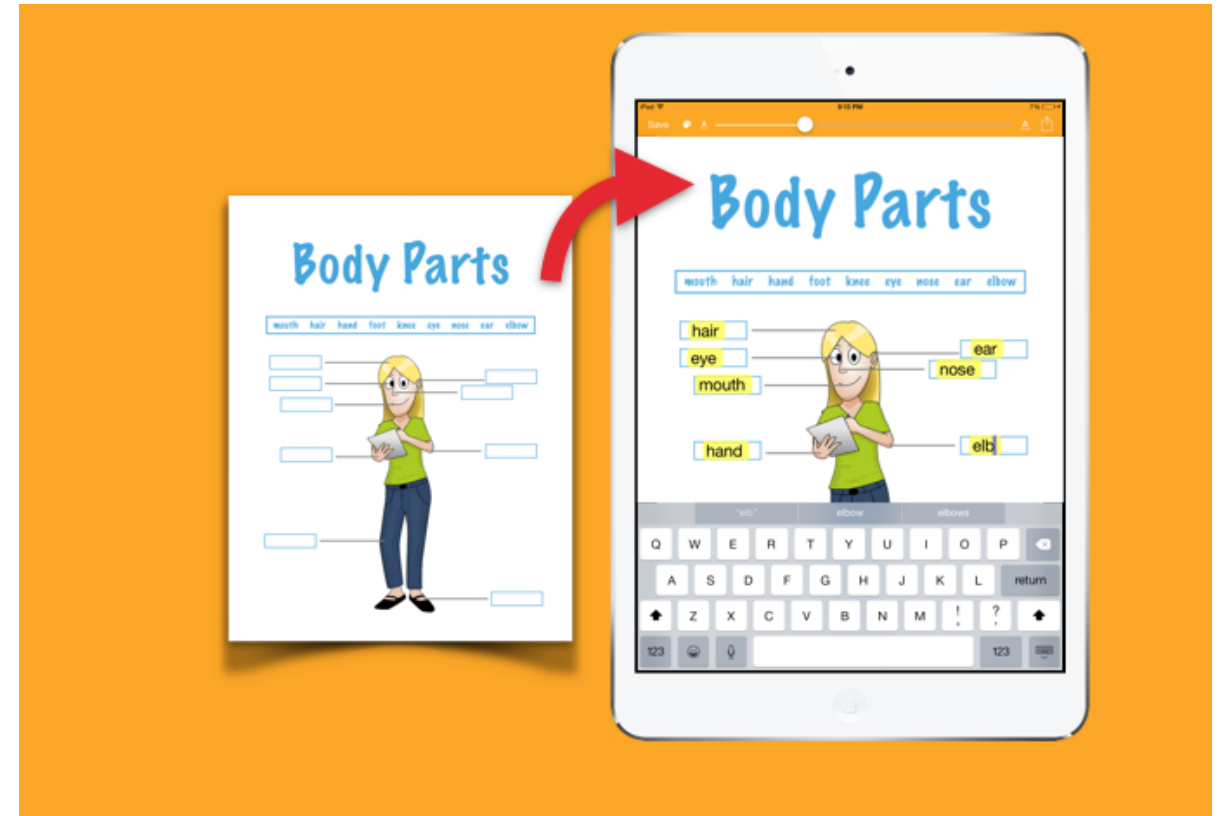
- Think about workflow- handover to different devices, exporting, access to wifi/data, keyboard
- Inbuilt accessibility features in Notes or Pages.
- **Speech to text:** Dragon (free), Voice Dream Writer (\$14.99), Proloquo4Text (\$179.99)*
- **Text prediction:** Read & Write for Google by TextHelp (subscription), iReadWrite, Ginger Page, Typ-O-HD! (\$22.99), Spell Better (free).
- *sometimes used as AAC



Working with text – writing on forms/worksheets

Filling in Forms

- SnapType (lite or \$7.99)
- Adobe Acrobat Reader
- iAnnotate (\$14.99)

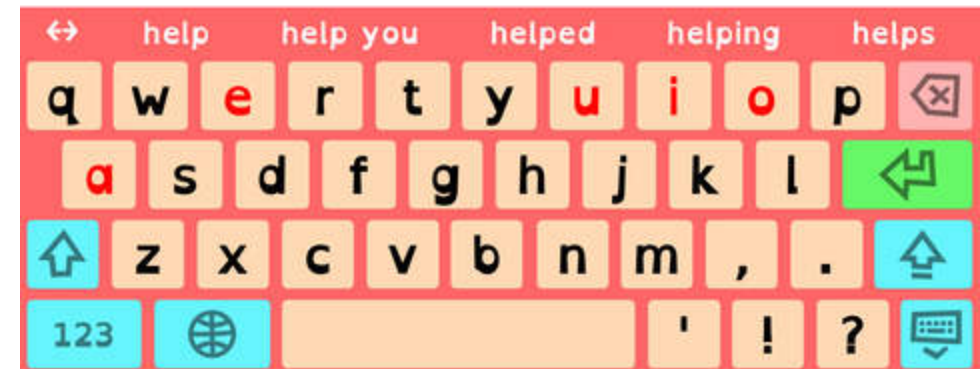


iPad keyboards

- Physical keyboards
ClamCase Pro,
Logitech Keys to Go



- Third party app keyboards –
Keedogo Plus (\$4.49), Keeble (\$38.99),
DyslexiaKey (free)



Working with text - Reading

OCR

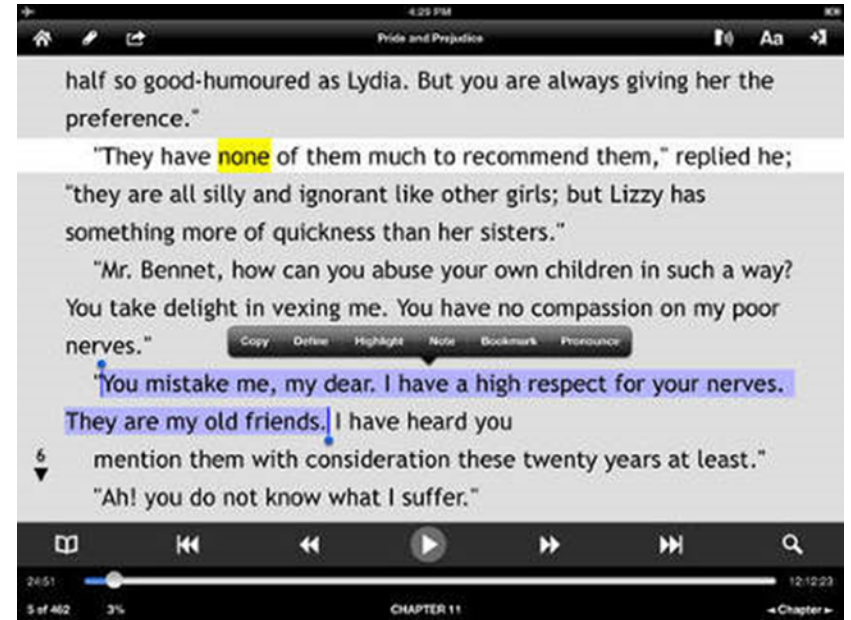
- Hard to find a good free one for iPad (Office Lens for iPhone, OneNote for desktop)
- Prizmo (\$14.99), IRIScan toWord (\$4.99)
- Portable scanning device such as IRIScan Book 3 (\$129)
- Fiddly, multi-step, formatting sometimes lost
- Find/Use a digital version



Working with text - Reading

Text to speech

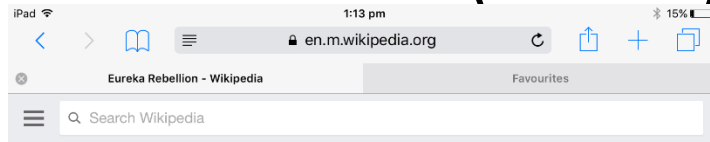
- can use Speak Screen, change font, voice, change display, pause, reread
- iBooks
- OverDrive (BCC Libraries have membership)
- BorrowBox (BCC Libraries have membership)
- Voice Dream Reader (\$22.99)
- Read2Go (\$30.99)
- Voice of Daisy (\$25.99)
- Kindle
- Audible audio books
- Vision Australia library



Working with text - Reading

Readability

Safari Reader (built in)



Eureka Rebellion

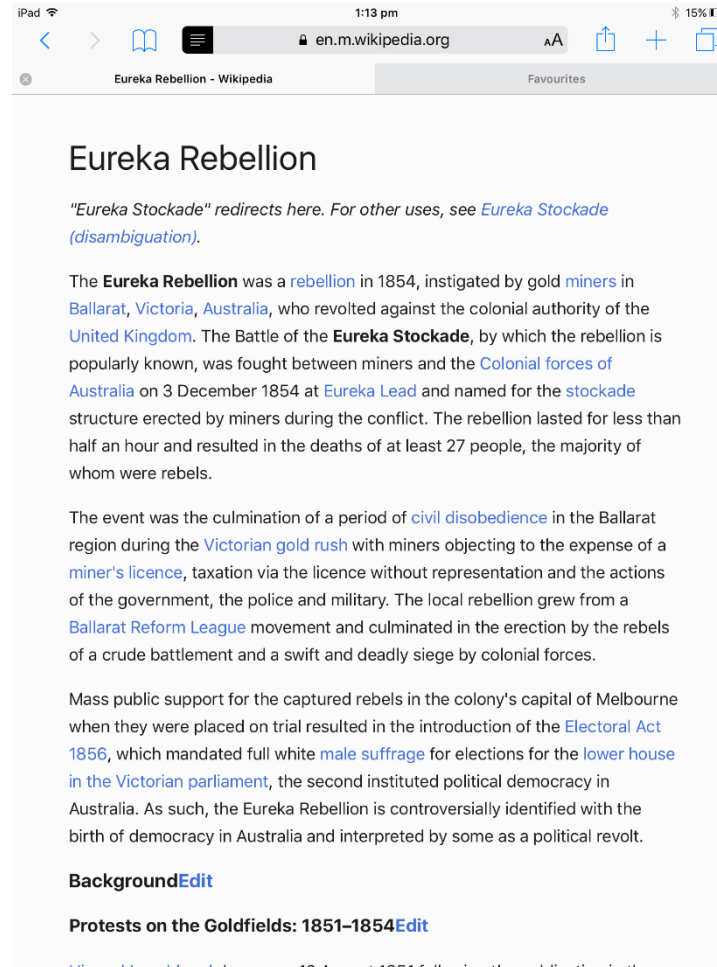
"Eureka Stockade" redirects here. For other uses, see [Eureka Stockade \(disambiguation\)](#).

The **Eureka Rebellion** was a [rebellion](#) in 1854, instigated by gold [miners](#) in [Ballarat](#), [Victoria](#), [Australia](#), who revolted against the colonial authority of the [United Kingdom](#). The Battle of the **Eureka Stockade**, by which the rebellion is popularly known, was fought between miners and the [Colonial forces of Australia](#) on 3 December 1854 at [Eureka Lead](#) and named for the [stockade](#) structure erected by miners during the conflict.^[2] The rebellion lasted for less than half an hour and resulted in the deaths of at least 27 people, the majority of whom were rebels.

The event was the culmination of a period of [civil disobedience](#) in the Ballarat region during the [Victorian gold rush](#) with miners objecting to the expense of a [miner's licence](#), taxation via the licence without representation and the actions of the government, the police and military.^{[3][4]} The local rebellion grew from a [Ballarat Reform League](#) movement and culminated in the erection by the rebels of a crude battlement and a swift and deadly siege by colonial forces.

Mass public support for the captured

Eureka Rebellion	
 <div>Eureka Stockade Riot. J. B. Henderson (1854) watercolour</div>	
Date	3 December 1854
Location	Eureka , Ballarat , Victoria, Australia
Result	Miners' rebellion defeated by the Victorian authorities
Belligerents	
 Colony of Victoria	 Stockade rebels
<div><ul style="list-style-type: none"> British Army Victoria Police</div>	
Commanders and leaders	
<div><div> J. W. Thomas</div><div> Charles Pasley</div></div>	<div><div> Peter Lalor (WIA)</div><div> Henry Ross (WIA) (POW)</div></div>
Strength	

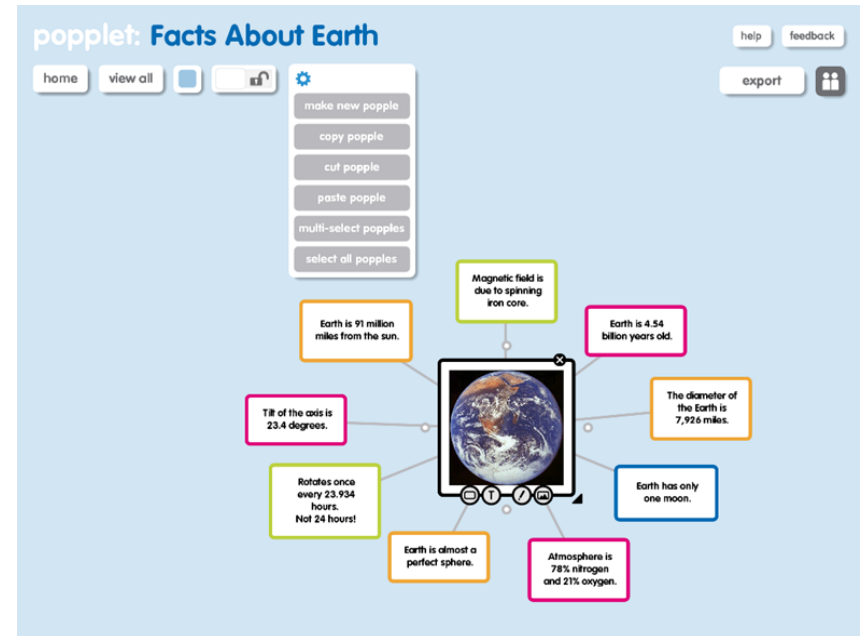


Apps:

- Read & Write for Google by Texthelp (subscription)
- Readability ????

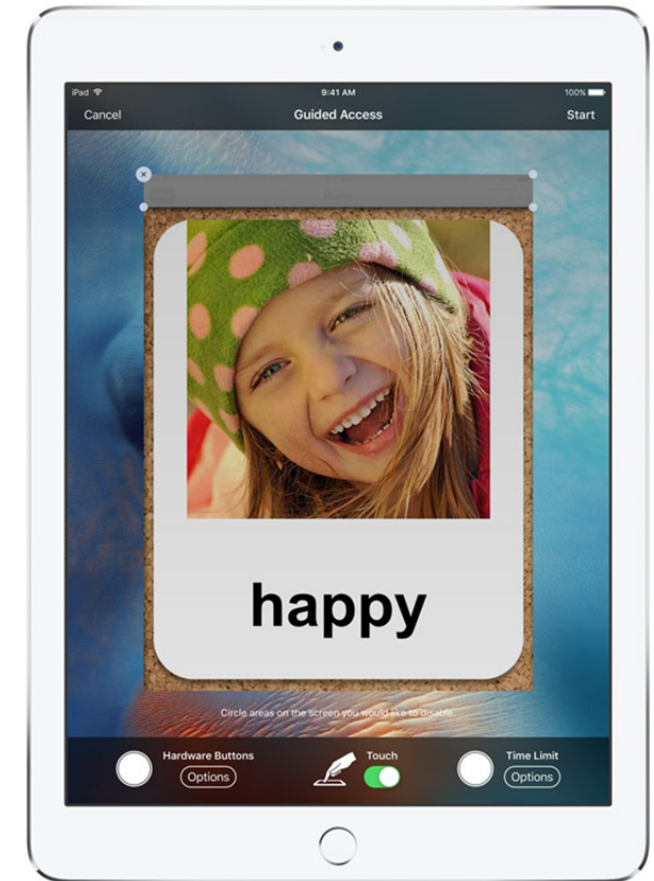
Organising and planning work – Mind mapping

- Popplet
 - Kidspiration/Inspiration* (lite and pro versions)
 - Tools4Students (\$1.49)
- * compatible with Voice Over, Jaws and Orca



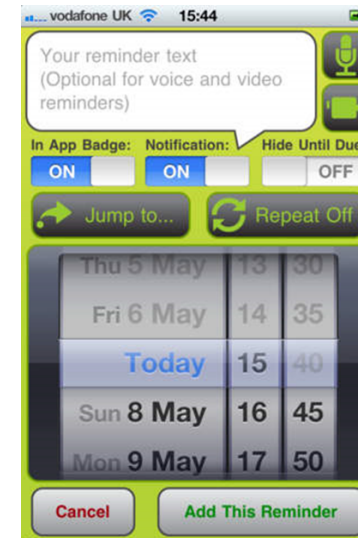
Organising and planning work - Workflow

- Workflow – OneDrive, Google apps, iCloud
- Make your own icons
- Make Siri work for you
- Spotlight search
- Guided access



Reminders and life

- Reminders and Notification (inbuilt)
- Google notifications synched with Google Calendar
- Alarmed
- Forgetful?
- Remember the Milk
- Wunderlist (collaboration)
- Clue
- Medication reminders
- Email tags and categories
- Find my iPad, Tile



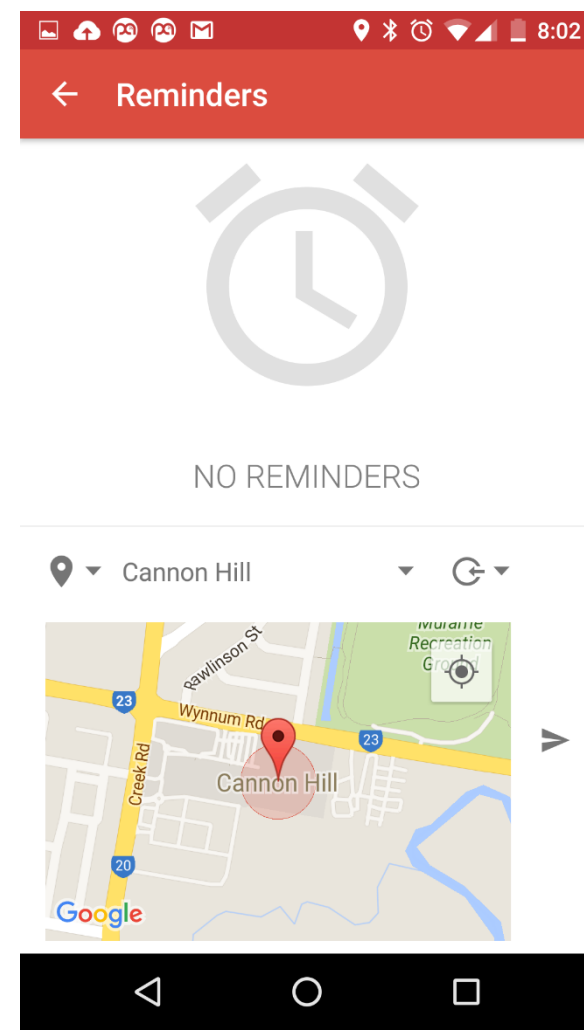
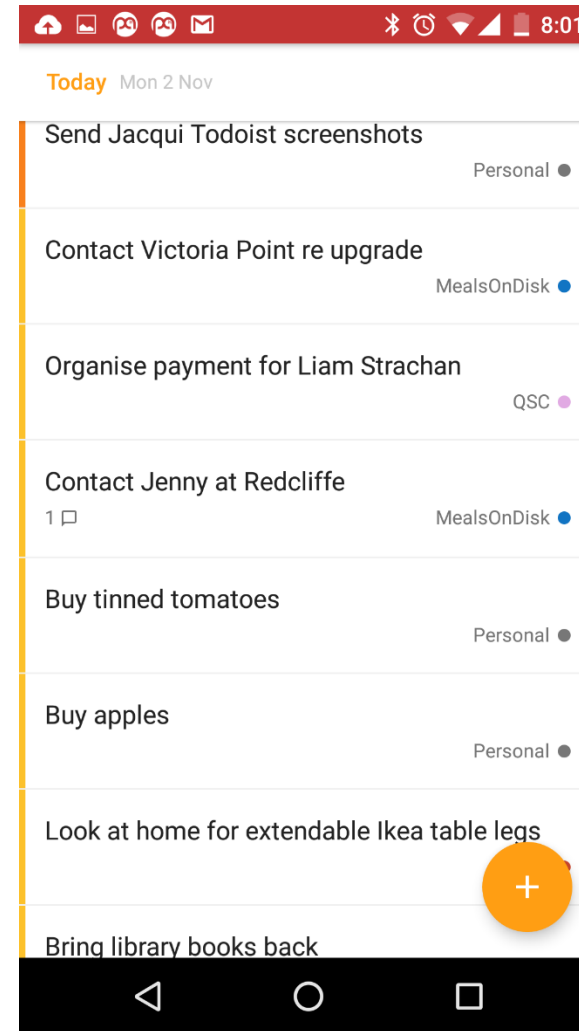
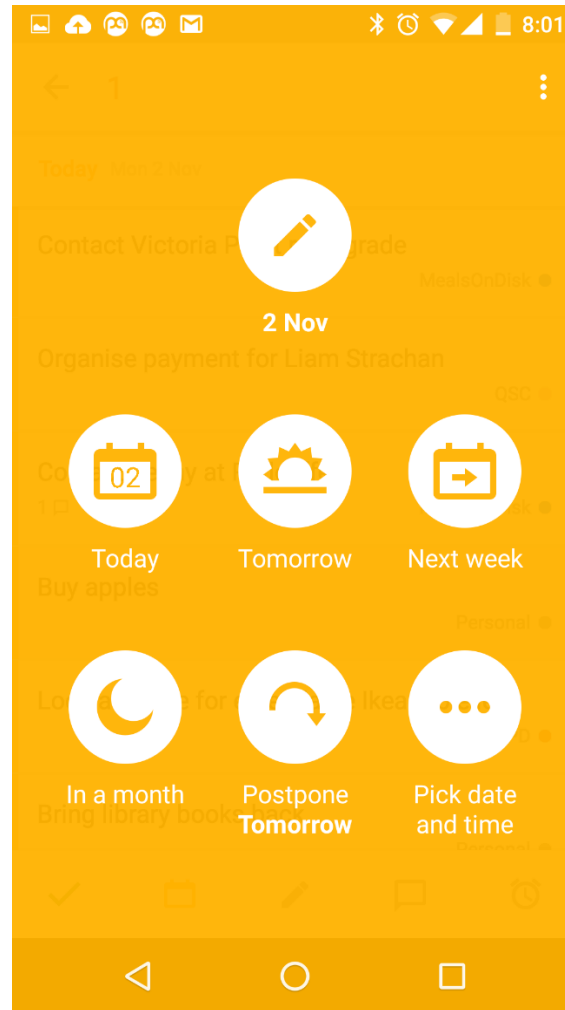
Reminders and life - CanPlan

- promotes independence and builds confidence
- helping people with cognitive challenges complete tasks successfully
- virtually any activity can be broken into a sequence of easy-to-follow steps, illustrated by photos and reinforced with optional text and audio
- scheduling and reminder features ensure each task gets done on time
- free



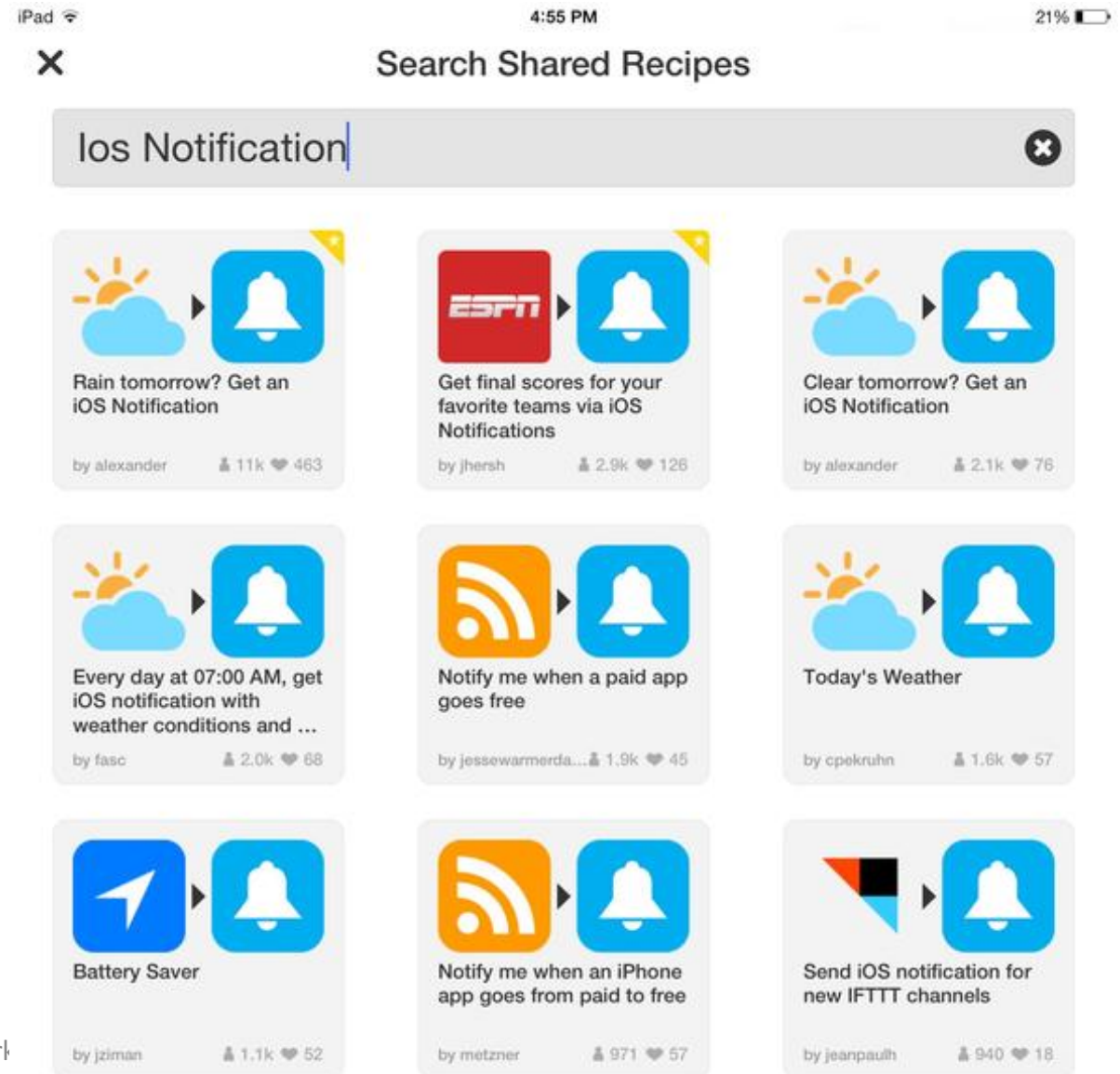
Reminders and life - Todoist

- can categorise
- GMail extension
- gamified
- alerts for time or place,
- pay for constant synchronising, free for once a day synchronising between devices



Reminders and life - IFTTT

- If this, then that
- Create “recipes” based on location, time, events or social media alerts



Reminders and life apps

- Habits: Habitica/HabitRPG, Proof
- Goals: LifeTick, Momentum
- Mental health and wellbeing: meditation, prayer
- Fitness and diet
- Health – medication reminders, blood sugar and blood pressure trackers

Resources

- Blogs
- Twitter (#AT)
- Facebook
- ATIA webinars and conference
- NDIS updates
- Disability advocacy associations
- Apple Consultants Network
- QIAT forum. Join at
<http://lsv.uky.edu/scripts/wa.exe?SUBED1=qiat&A=1>

Resources



- Vision resources on our website
<http://macandpcdoctors.com.au/accessibility/vision/>
- Literacy and Learning resources on our website
<http://macandpcdoctors.com.au/accessibility/learning-and-literacy/>
- My ScoopIt! Feed on AT and Learning Disabilities
<http://www.scoop.it/t/learning-disabilities-and-assistive-technology>
- Accessibility section of Apple website
<http://www.apple.com/au/accessibility/ios/>
- Siri as personal assistant - <http://www.apple.com/au/ios/siri/>,
<https://hey-siri.io/dl/Hey-Siri.pdf>
- Forum about Apple products for vision impaired users -
<http://www.applevis.com/>
- Dyslexia iBook by Jeanette Davies

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Apple Consultants Network

