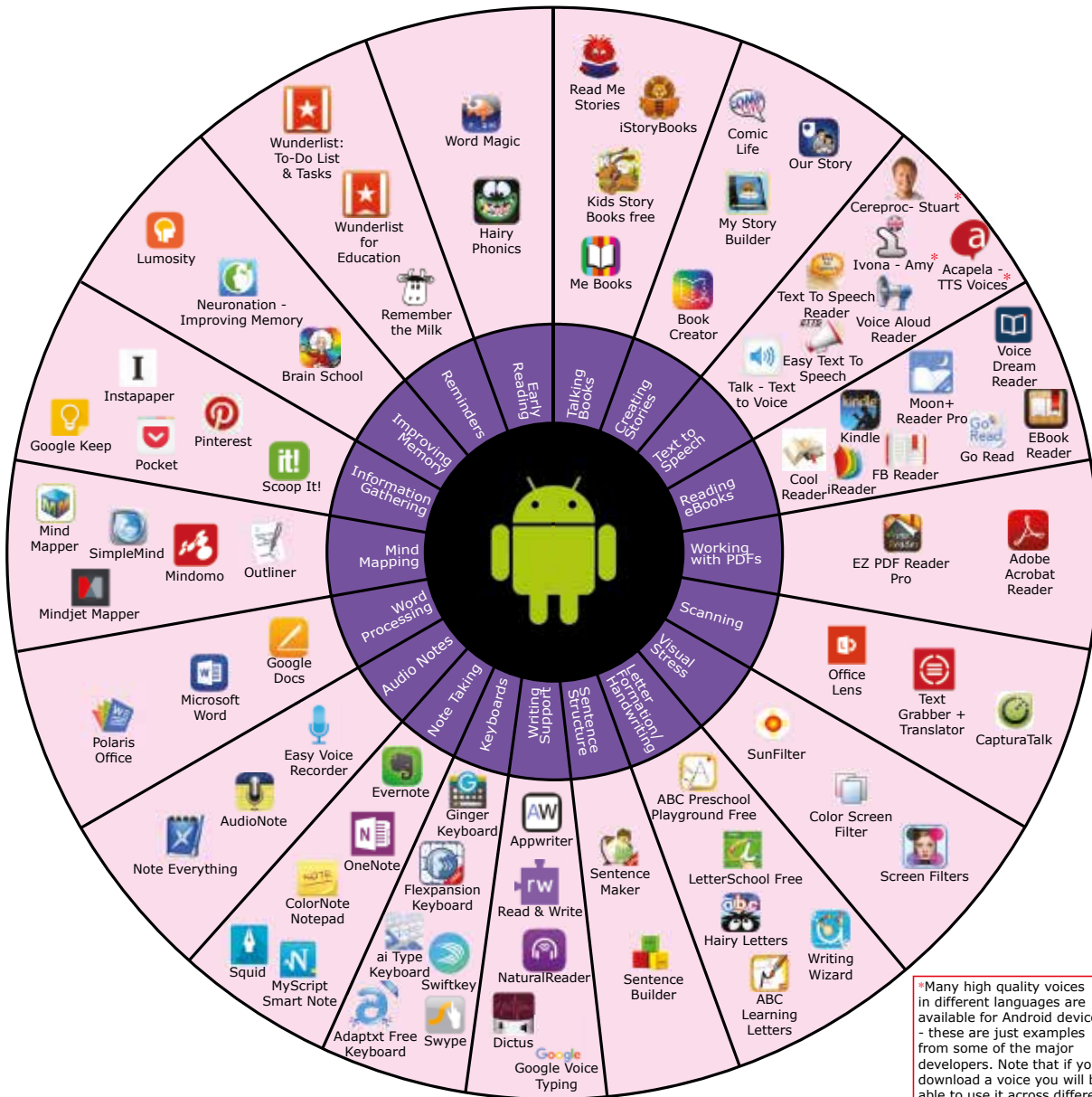Three new resources from CALL Scotland provide an at-a-glance overview of the many ways iPads and Android devices can be used to support literacy. For electronic versions of the first two resources with clickable links, see www.callscotland.org.uk/downloads/posters-and-leaflets.

Android Apps for Learners with Dyslexia/ Reading and Writing Difficulties

App Wheel categories (inner ring): Reminders, Early Reading, Talking Books, Creating Stories, Text to Speech, Reading eBooks, Working with PDFs, Scanning, Visual Stress, Letter Formation/Handwriting, Sentence Structure, Writing Support, Keyboards, Note Taking, Audio Notes, Word Processing, Mind Mapping, Information Gathering, Improving Memory.

Apps shown: Wunderlist: To-Do List & Tasks, Word Magic, Read Me Stories, iStoryBooks, Comic Life, Our Story, Cereproc- Stuart*, Wunderlist for Education, Hairy Phonics, Kids Story Books free, My Story Builder, Ivona - Amy*, Acapela - TTS Voices*, Lumosity, Me Books, Book Creator, Text To Speech Reader, Voice Aloud Reader, Voice Dream Reader, Neuronation - Improving Memory, Remember the Milk, Talk - Text to Voice, Easy Text To Speech, Moon+ Reader Pro, Kindle, Go Read, EBook Reader, Brain School, Instapaper, Cool Reader, iReader, FB Reader, Google Keep, Pinterest, Pocket, Scoop It!, EZ PDF Reader Pro, Adobe Acrobat Reader, Mind Mapper, SimpleMind, Mindomo, Outliner, Office Lens, Text Grabber + Translator, CapturaTalk, Mindjet Mapper, Google Docs, SunFilter, Microsoft Word, ABC Preschool Playground Free, Color Screen Filter, Screen Filters, Polaris Office, Easy Voice Recorder, Evernote, Ginger Keyboard, Appwriter, Sentence Maker, LetterSchool Free, AudioNote, OneNote, Flexpansion Keyboard, Read & Write, Note Everything, ColorNote Notepad, ai Type Keyboard, Swiftkey, NaturalReader, Sentence Builder, Hairy Letters, Writing Wizard, Squid, MyScript Smart Note, Adaptxt Free Keyboard, Swype, Dictus, Google Voice Typing, ABC Learning Letters.

*Many high quality voices in different languages are available for Android devices - these are just examples from some of the major developers. Note that if you download a voice you will be able to use it across different apps on your Android.

This is the third in a series of 'App Wheels' produced by CALL Scotland, following on from our two iPad Wheels. This focuses on Android Apps to support reading and writing. Note that some apps address a range of difficulties. but in order to save space, we have decided not to place individual apps into multiple categories. Links on the electronic version are 'clickable', taking you to information in the Google Play Store.

This is not a comprehensive list, but an attempt to identify relevant, useful apps and to categorise them according to some of the difficulties faced by people with dyslexia. Unlike the iPad, there is little consensus on the 'best' Android apps for education, so we would be happy to receive suggestions for inclusion in future versions. Email suggestions to call.scotland@ed.ac.uk.

iPad versus Android

The iPad is well established as an educational tool, but Android tablets (and smartphones) are becoming increasingly popular.

- Android tablets are generally less expensive than iPads.
- There are more educational apps available for the iPads, than for Android devices.
- There is less 'quality control' over Android apps so some don't work properly, or perform in unexpected ways.
- Many Android devices cannot be upgraded to the latest version of the operating system so some apps won't work on them.
- The Android operating system is less tightly controlled than the Apple iOS, so some apps, e.g. voices and screen filters can work across most apps in an Android device, unlike the iPad where there are no general screen filters and voices have to be downloaded separately for each app.

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iPad Apps to Support Creativity

The iPad, combined with appropriate apps, is an ideal device to support, foster and engage creative thinking, collaboration, interactivity, and learning. With its front and back facing cameras, microphone, and portability, it is an engaging creative tool, even for the less creative among us. With a bit of imagination the iPad can become an art canvas, an animation tool, a live instrument, a music studio, a video editing suite, and much more!

The option to add external devices (via Bluetooth and/or the Apple Camera USB Connection Adaptor) means the iPad can link to a guitar, a digital piano, synthesisers and other 'controllers'. The iPad can also offer an alternative means of recording, writing and presenting classwork, particularly useful for those pupils who find traditional methods of writing and reading challenging.

Camera and Video Accessories

Accessories such as hand grips and mounts (tripods) can help to stabilise video footage and extend the use of the iPad's built-in camera;
- bit.ly/iPad_moviemounts
- bit.ly/iPad_photo_accessories
- bit.ly/olloclip_photo_lens_iPad

(CALL Scotland does not have any association or interests with the above)

Apps which integrate / share with other apps
Tape   AudioCopy   AudioShare   Audiobus
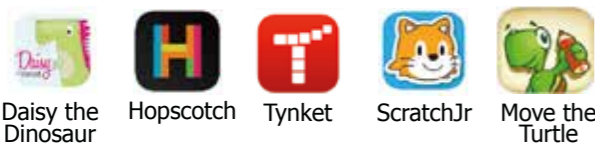
Music

General/Studio
Garage Band   Pocket Studio   Bossjock Studio   Music Studio   Thumbjam   SampleTank   Bloom HD
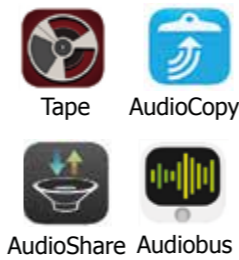
Instruments
iGrand   Virtuoso Piano   Bagpipe   Guitarism   Futulele   Keezy (& Keezy Drummer)   Drums!

Synthesisers / Effects / DJ
BIAS Amp   AmpliTube   AmpKit   Sunrizer Synth   djay 2   Figure   Launchpad

Coding
Daisy the Dinosaur   Hopscotch   Tynket   ScratchJr   Move the Turtle

Interaction

Augmented Reality / Interactive Whiteboard
Aurasma   ZooBurst   Explain Everything   Educreations   Screen Chomp

Photos

Editing / Collage / Effects
Adobe Photoshop Express   Photos   Snapseed   Pic Collage   Diptic
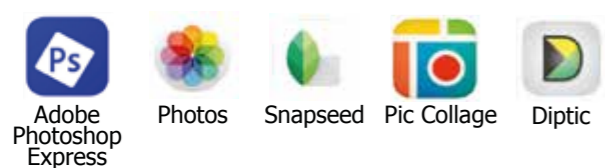
Art

Painting / Drawing / Effects
Brushes   Doodle Buddy   Uzu   Autodesk SketchBook
SpinArtX   Fruit Attack Artist   Finger Paint with Sounds   Etch A Sketch

Video

General
iMovie   Chromic   Filmic Pro   Videolicious   Toy Story Story Theater   Easy Studio

Special Effects
Action Movie FX   Creatures FX   Green Screen   Video Scribe   Zombie Booth   Kid Pix Deluxe 3D

Stop Animation
iAnimate   I Can Animate   Stop Motion Studio   Shadow Puppet Edu   Foldify   Foldify Zoo

Animation

Puppets / Animated Cartoons
Puppet Show   Sock Puppets   ToonTastic   Puppet Pals HD   Tellagami   Animation Desk

Comic Creation

Comic Books / Comic Art
Comic Life   Musomic   Photo Sketch   Toon Camera

Story Telling

Audio / Video / Narration / Interactive Books
Book Creator   Talking Pictures   SonicPics   Collins Big Cat Apps   Me Books

Creative Writing
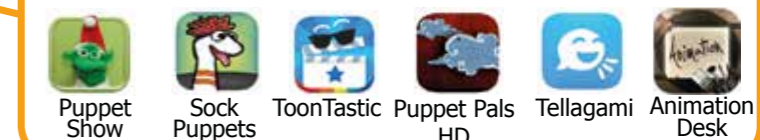
Presentation / Audio / Narration
Keynote   Adobe Slate   Microsoft Sway   Tell About This   Adobe Voice   VoiceThread

Writing Prompts
Writing Prompts   Write About This   Creative Writer   Writing Challenge   Web2Easy   Songwriters Pad

An electronic copy of this infograph can be downloaded from:
www.callscotland.org.uk/downloads/posters-and-leaflets/
In the electronic version, App images are 'clickable' links, taking you to information about the individual App on the iTunes site for the UK.
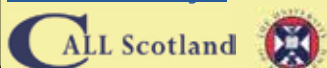
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Using the iPad to Support Dyslexia

With each new update of the iPad's operating system (iOS), the built-in tools continue to improve. iOS 9 includes support for literacy difficulties such as dyslexia, without necessarily needing to buy additional apps. This infograph provides a snapshot of some of the built-in tools; others not mentioned here, include lower case keys, undocking the on-screen keyboard to help track writing, the facility to add external dyslexia-friendly Bluetooth keyboards to aid writing and the newly designed Notes app with text formatting options.

As well as the suggestions provided here, CALL Scotland offers many more resources, such as the 'Dyslexia Wheel of Apps', and colour background templates for Pages as well as neutral colour backgrounds for the iPad's screen.

bit.ly/dyslexia-wheel-of-apps
bit.ly/neutral-screen-colours
bit.ly/pages-background-templates
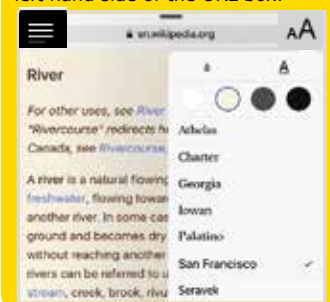www.callscotland.org.uk

Split View

With Split View you can work on two apps and/or documents simultaneously, - useful for revision or notetaking.

*iPad Air 2 only - alternatively **Slide Over** for some older iPads).*

Siri

You can use Siri to ask questions, set reminders, open apps, complete tasks, and dictate text instead of typing.

Siri Voices
Use the Siri voices – Siri Male and Siri Female – for natural sounding text-to-speech.

Safari Reader

Improve the readability of web pages by removing clutter - tap the black horizontal lines on the left hand side of the URL box.

Speak Screen

Speak Screen reads content on the iPad. You can set the speaking rate and choose from different voices. Swipe down from the top with two fingers or tell Siri to 'Speak Screen'.

Speak Selection
If you don't want everything read aloud tap and hold the bits of text and Speak Selection will read it.

Speak Selection reads highlighted words

Highlighting
Follow words and sentences as they are read aloud with 'Highlighting'.

Define/Dictionary

Use Define and Dictionary to find the meaning of words.

Use **Manage** to choose from a range of Dictionaries such as the English Oxford, American English Oxford, French, German, Dutch and more.

Dictionary can also help with spelling, grammar and pronunciation.

Check Spelling

Consider turning on Check Spelling (in General and Keyboards) to alert learners to spelling mistakes. Misspelt words are highlighted with a red underline.

I recieved the parcel yesterday.

Replace Spelling
Tap or highlight the misspelt word to replace it with a correctly spelt word. If you are unsure if the replaced word is the correct one, highlight the word to have it read aloud (Speak).

I recieved the parcel yesterday.

Text Replacement to support spelling

Use Text Replacement to create personalised spelling lists and Auto-Corrections.

received
I recived

Text Replacement to cut down keystrokes (Shortcuts)
Consider using Text Replacement (abbreviation expansion) to help cut down keystrokes. Text Replacement can also help to quickly type repetitive sentences and phrases.

Asa
As a matter of fact

QuickType

Use QuickType to tap a word from the list of words appearing above the on-screen keyboard.

3rd Party Keyboards

You can use 3rd Party keyboards such as Keedogo, SuperKeys, Swype to aid writing and improve readbility (Settings and Keyboard).