



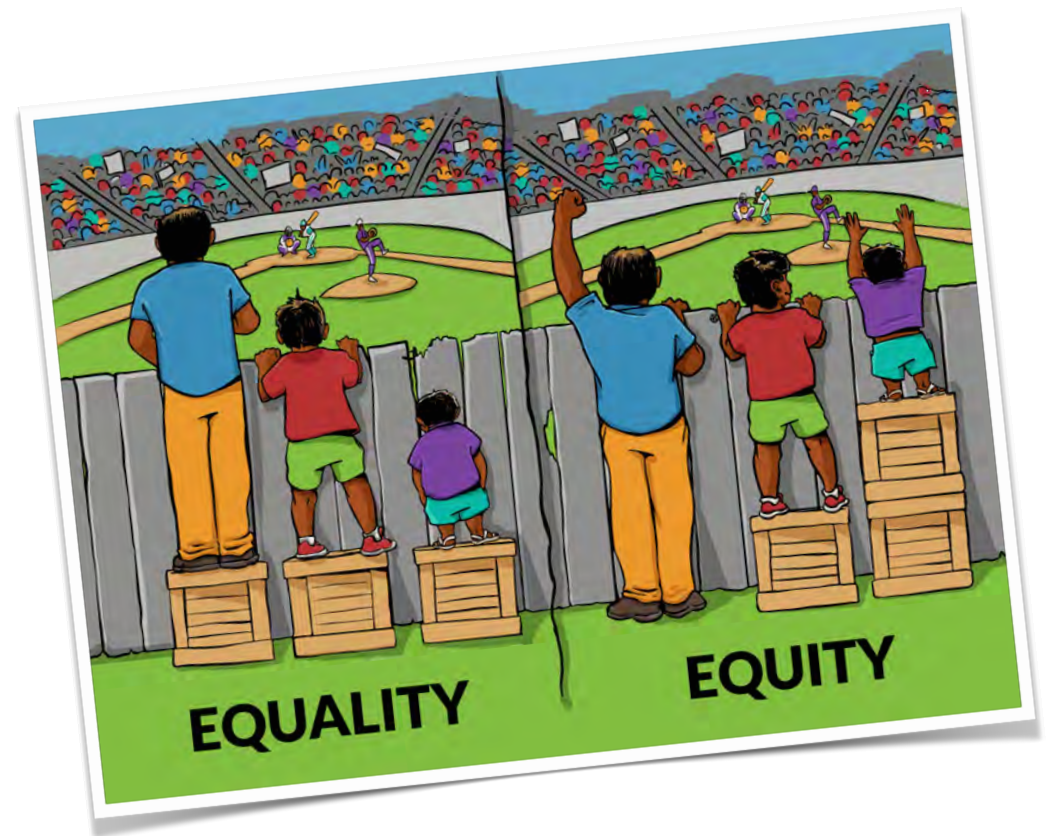
21C Inclusive learning

Greg Alchin



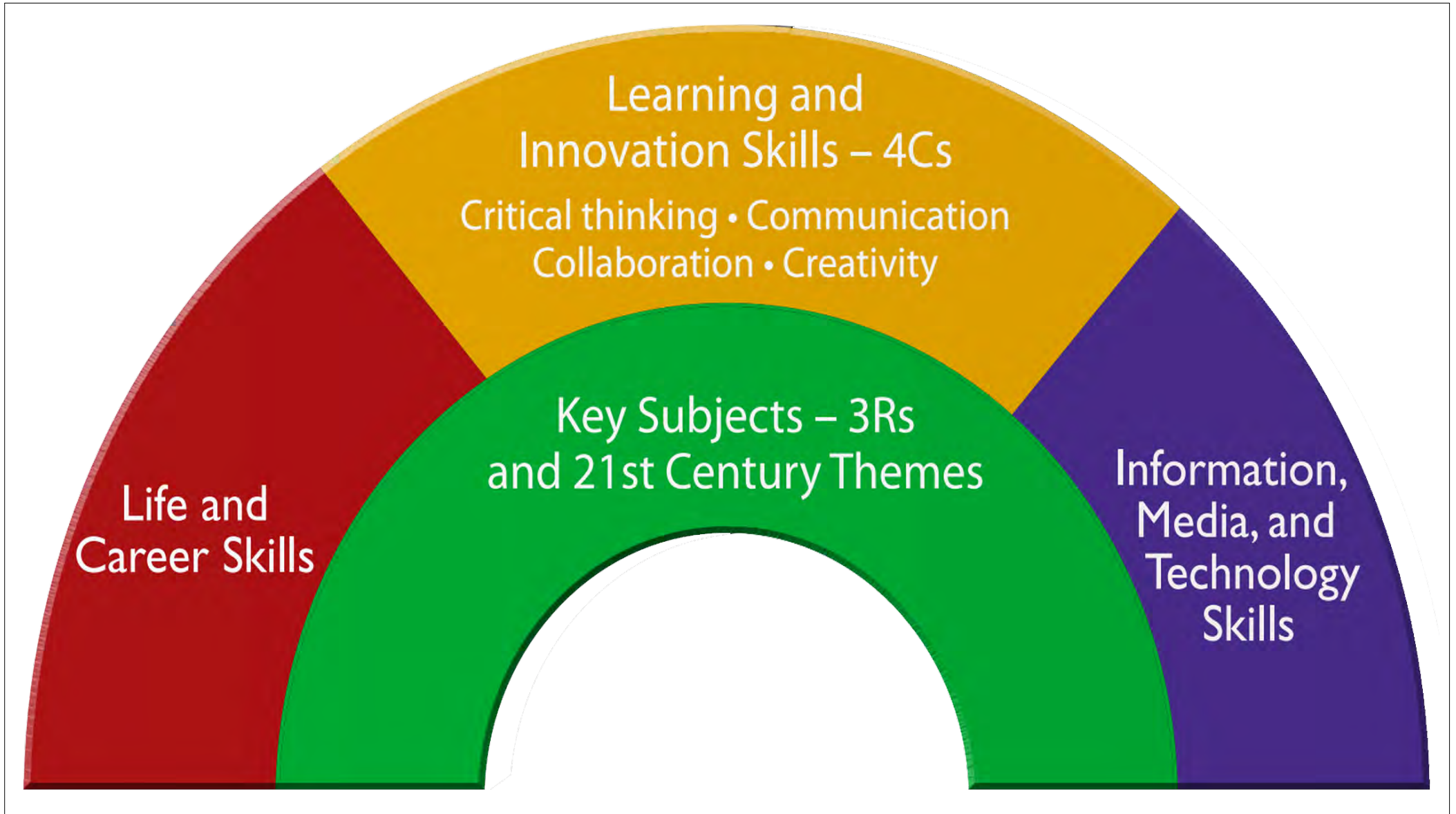
“All learners must be able to participate on the same basis right from the start.”

DSE



defining
modern learners







21C learners

beyond content delivery, orientation and mobility

Students

team work
projects based
real world
local & global

Assessment

apply knowledge
prove by presenting

Teachers

mix of explicit
teaching &
guide / coach



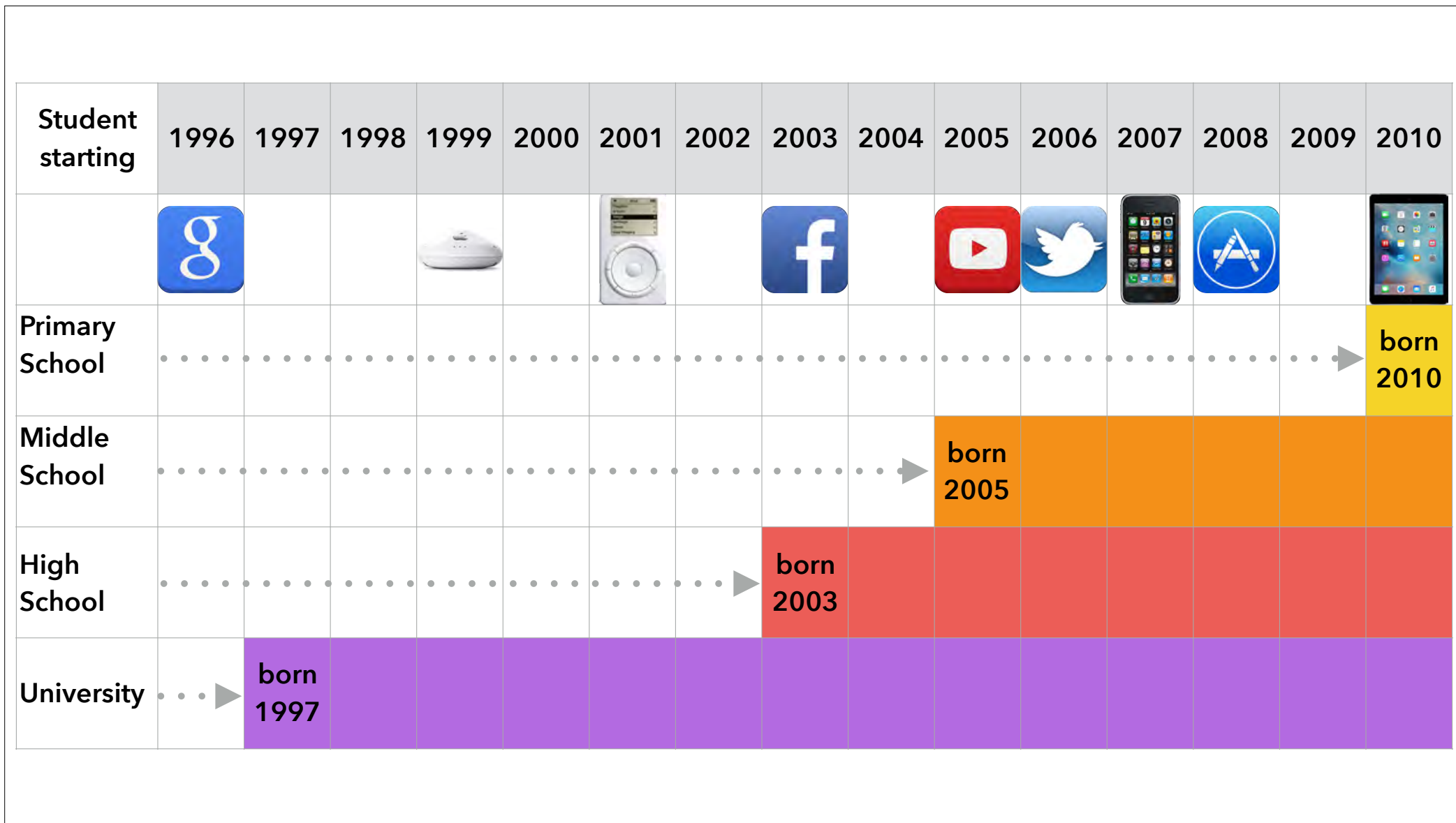
21C skills

Critical thinking and problem solving

Communication

Collaboration

Creativity and innovation





21C life is personalised





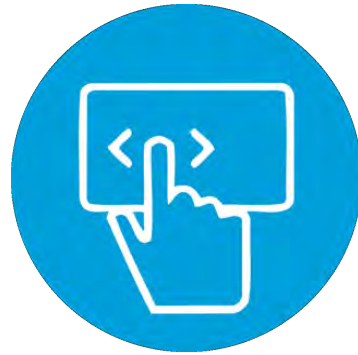
Build, scan and enjoy
THE BURGER
OF YOUR DREAMS

Build your favourite burger online with over 35 gourmet ingredients to choose from. Just build it, save it, and scan it in-restaurant.





personalised
learning



BYOD



built
environments



learning
spaces



inclusive strategies

personalised learning





Learner variability

"Our brains are as individual as our thumb prints"

- Dr L. Todd Rose





genetics

nutrition

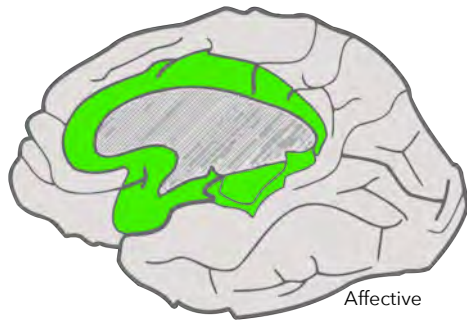
experience



sleep

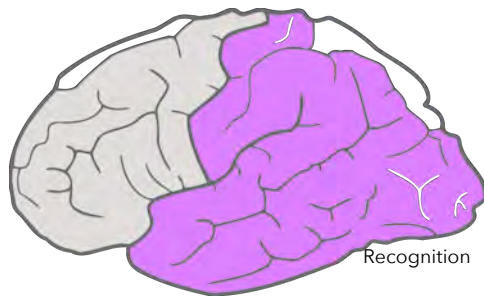
health

hydration



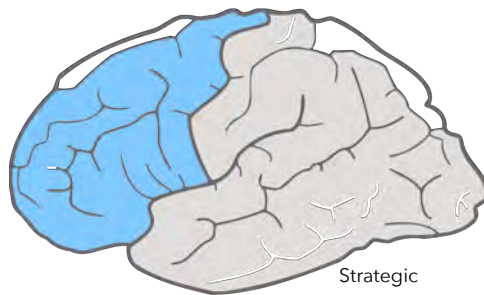
build and sustain engagement

>> purposeful & motivated



Provide flexible information

>> resourceful & knowledgeable



Enable voice & choice >>

>> strategic & goal-directed



Learner centred

There is a difference between **personalisation**, differentiation, & individualisation.

One is **learner-centered**; the others are teacher-centered.

Barbara Bray and Kathleen McClaskey





How will I ...?



 **Access**
Information  + 

 **Process**
Meaning  + 

 **Express**
Understanding  + 



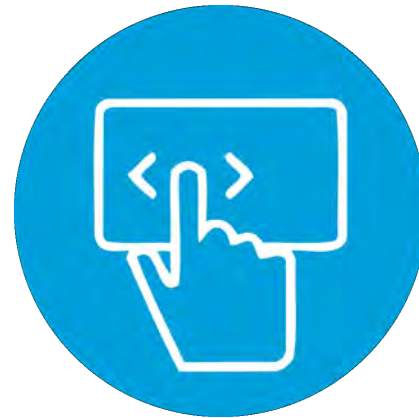
100,000,000,000

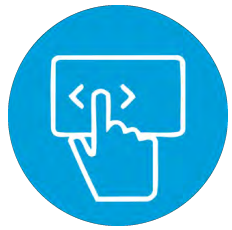
100 billion - June 2015



inclusive strategies

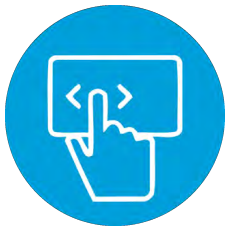
BYOD





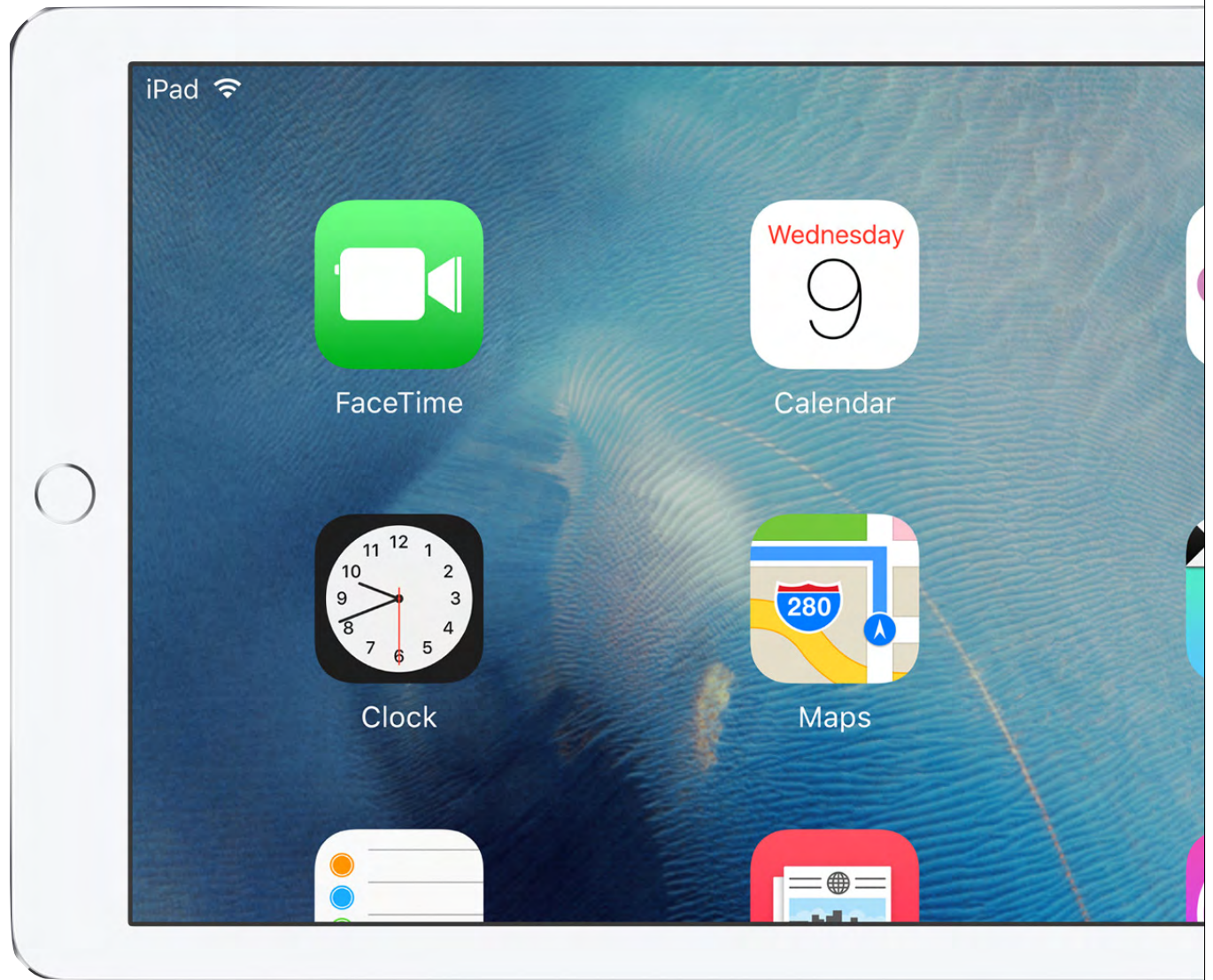
Personalising BYOD

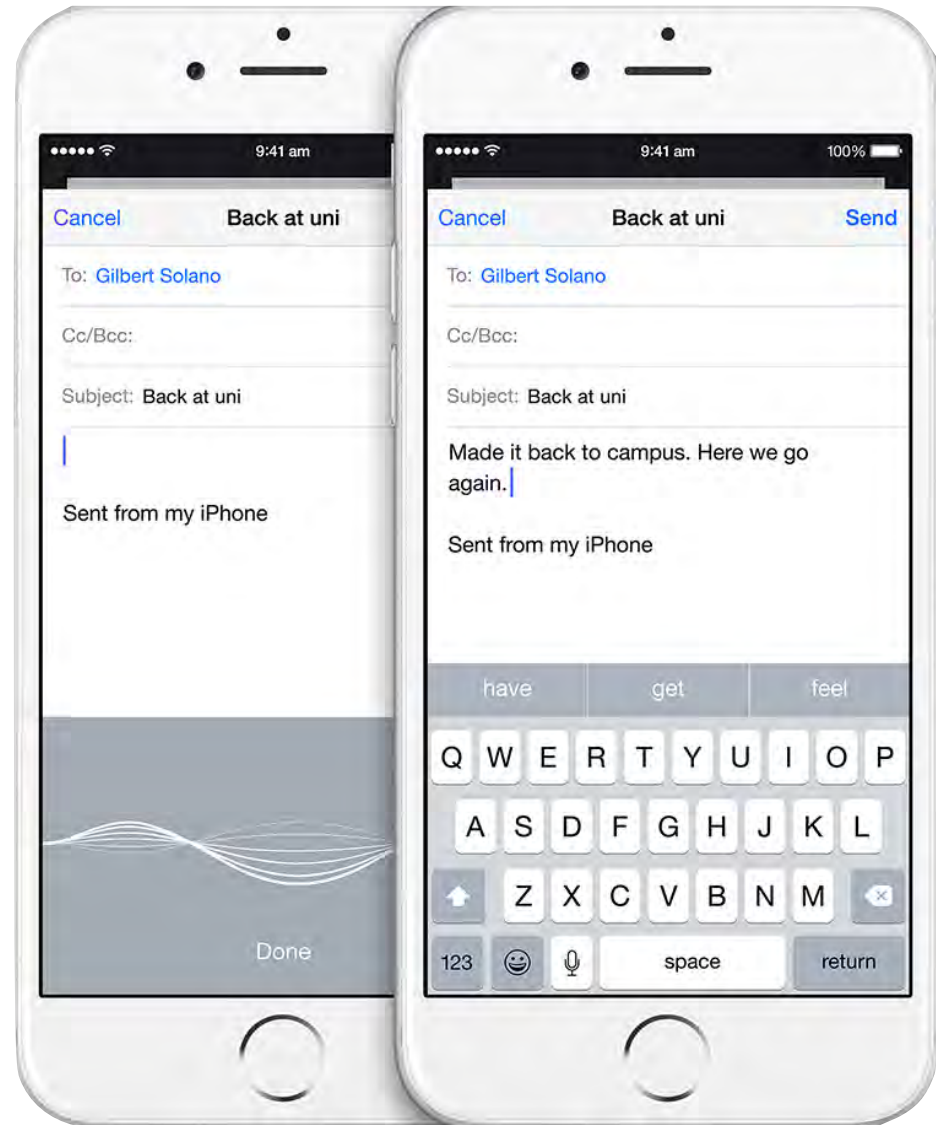
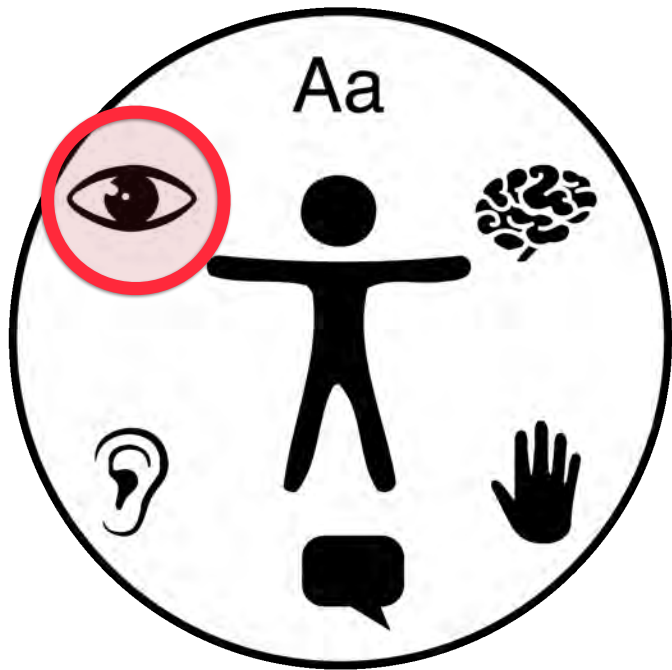


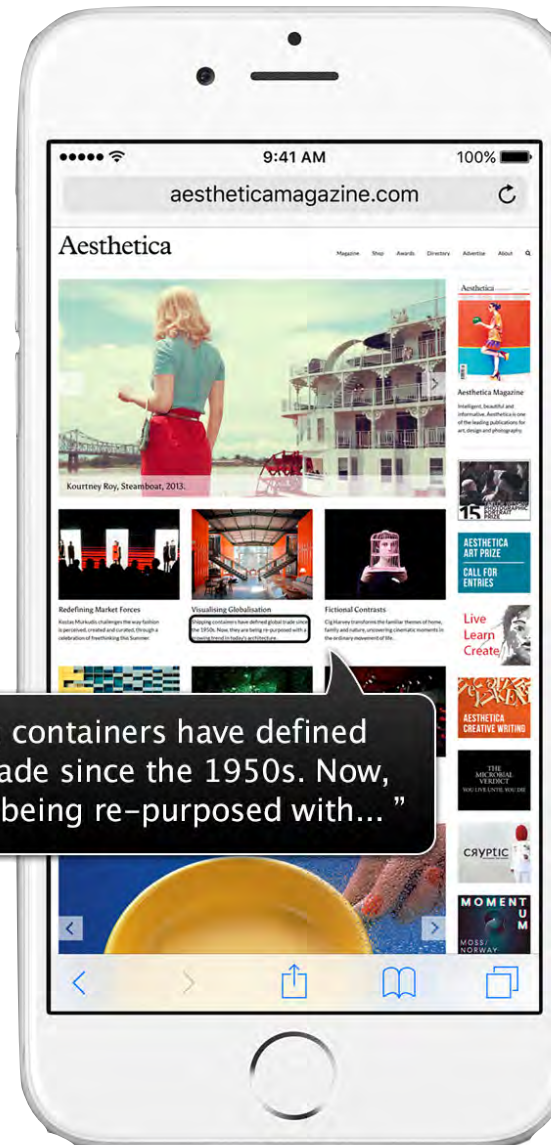


Personalising BYOD

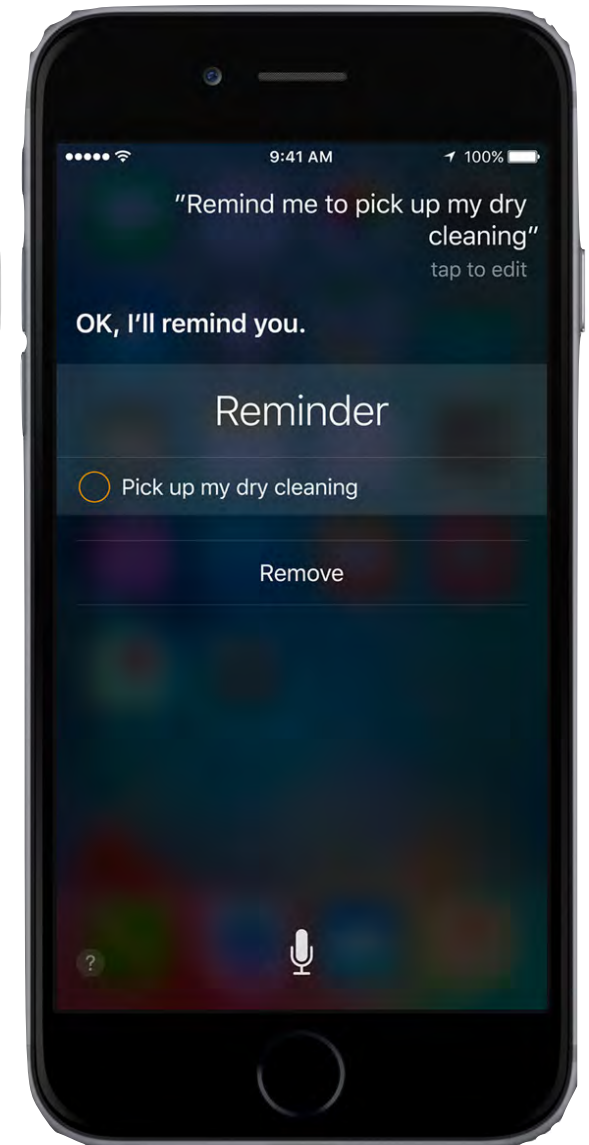


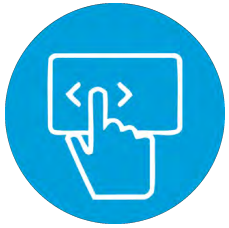






“Shipping containers have defined global trade since the 1950s. Now, they are being re-purposed with...”

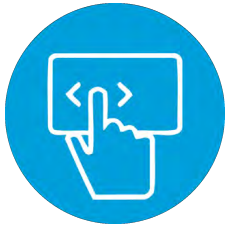




Alex..oh yeah!

The singer is here to record a record.

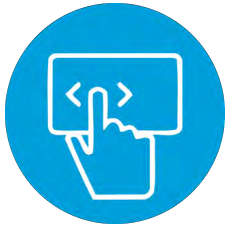
\$786,543,234,888,665,321,654,976.10



Alex..oh yeah!

The singer is here to record a record.

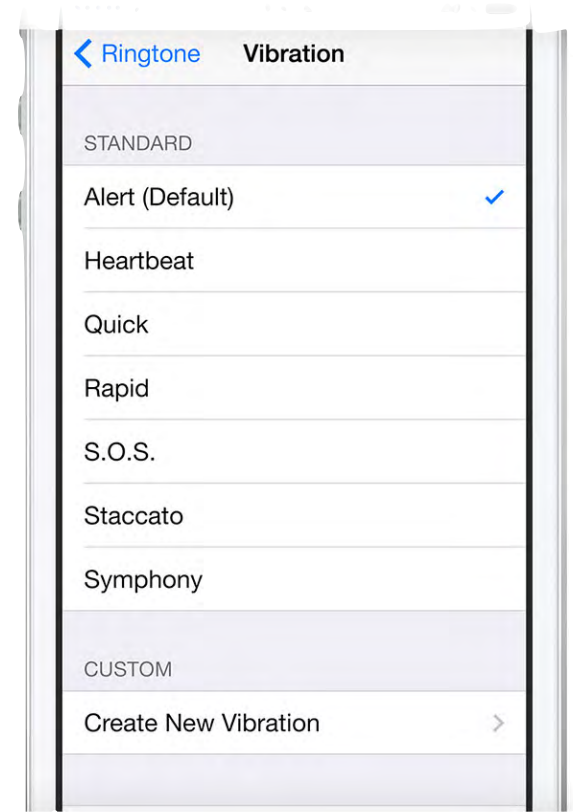
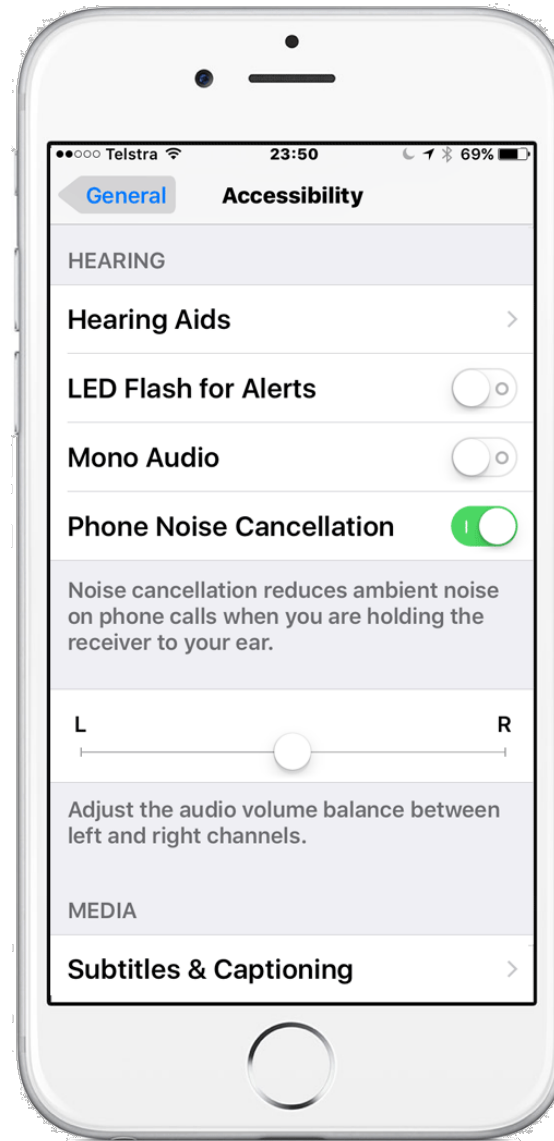
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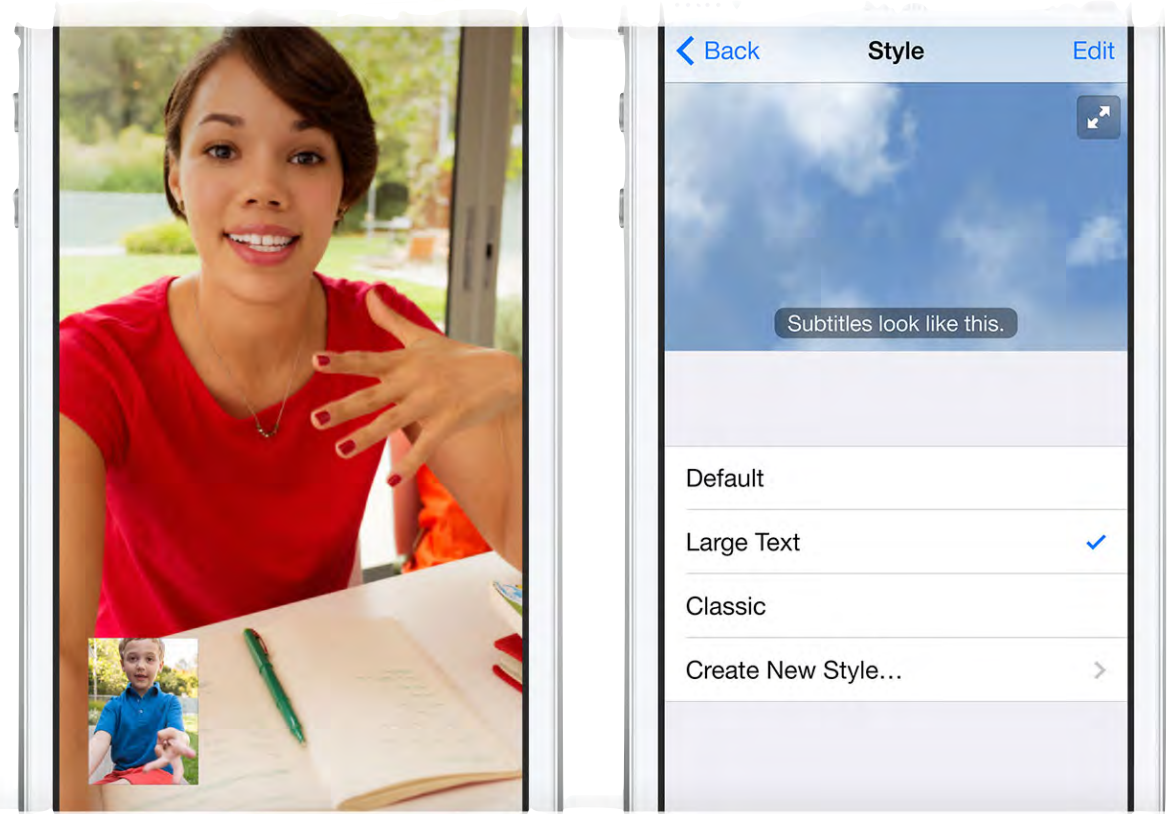


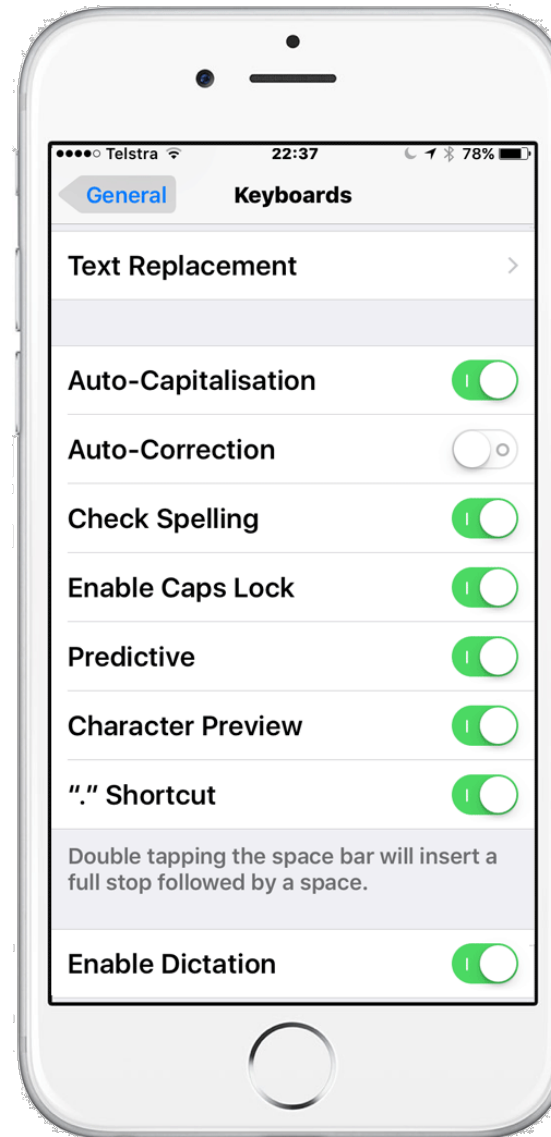
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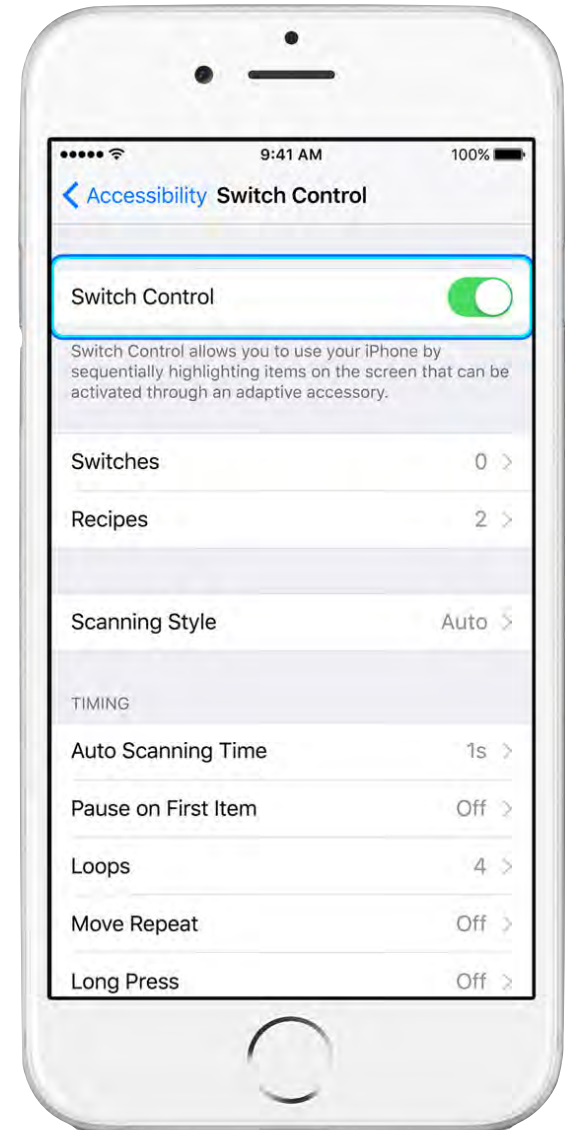
The singer is here to record a record.

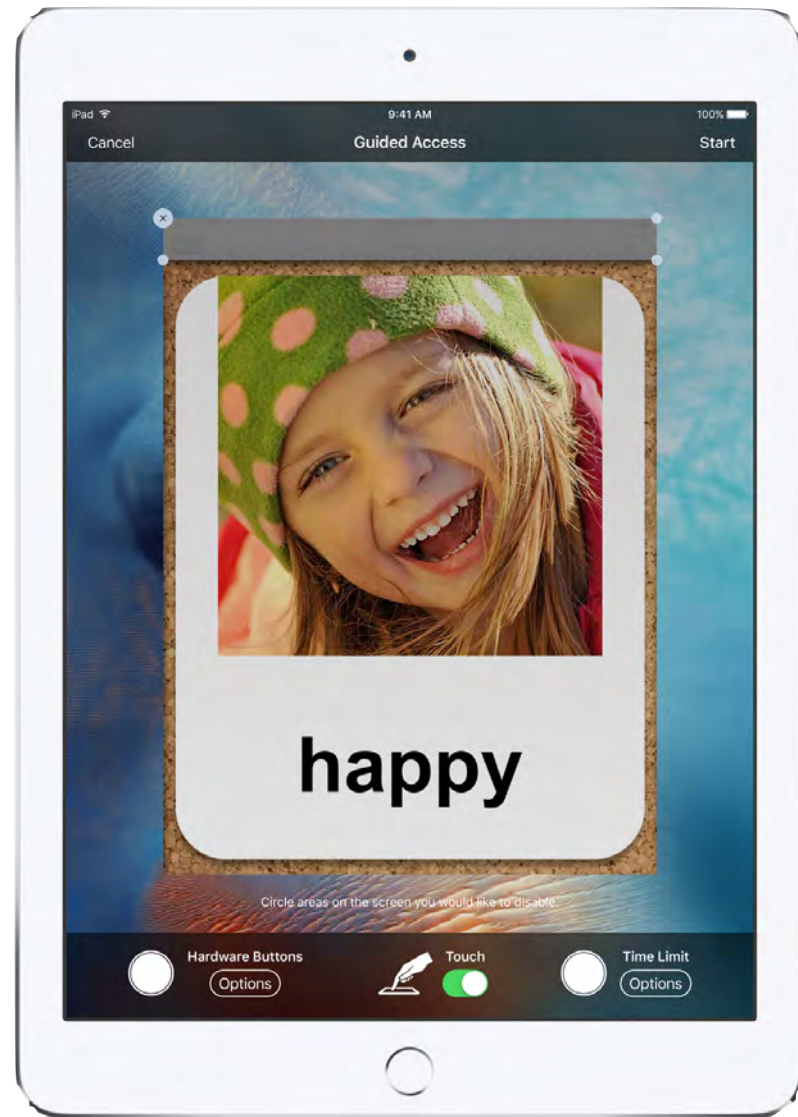
\$786,543,234,888,665,321,654,976.10

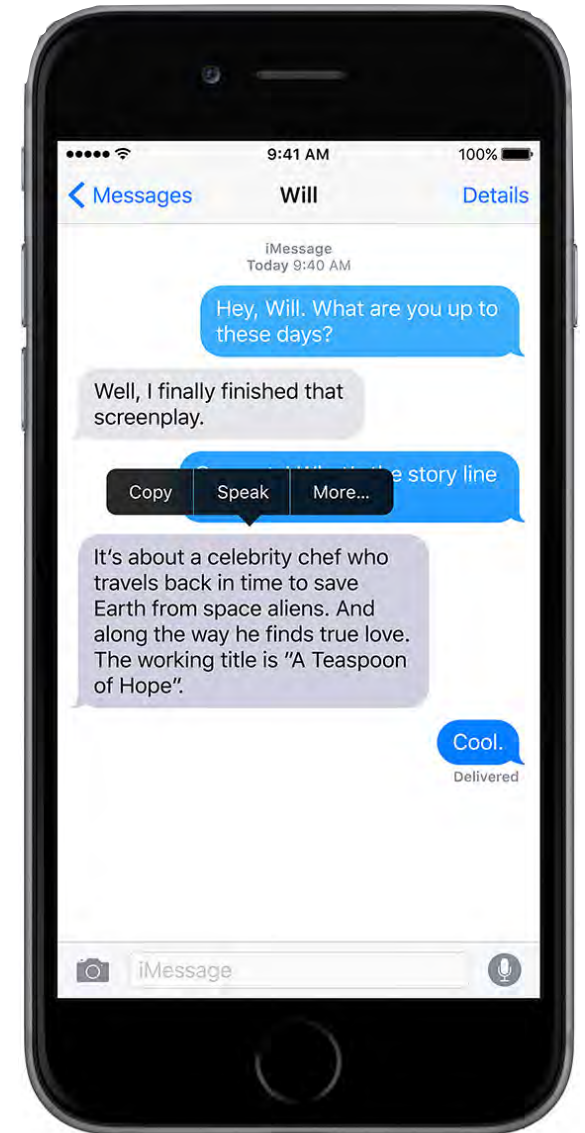
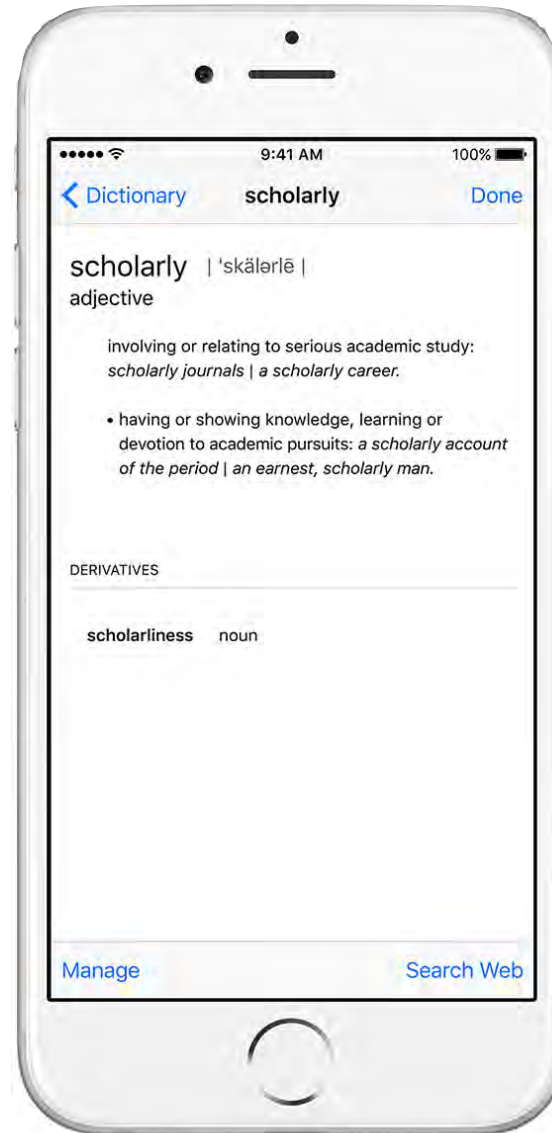
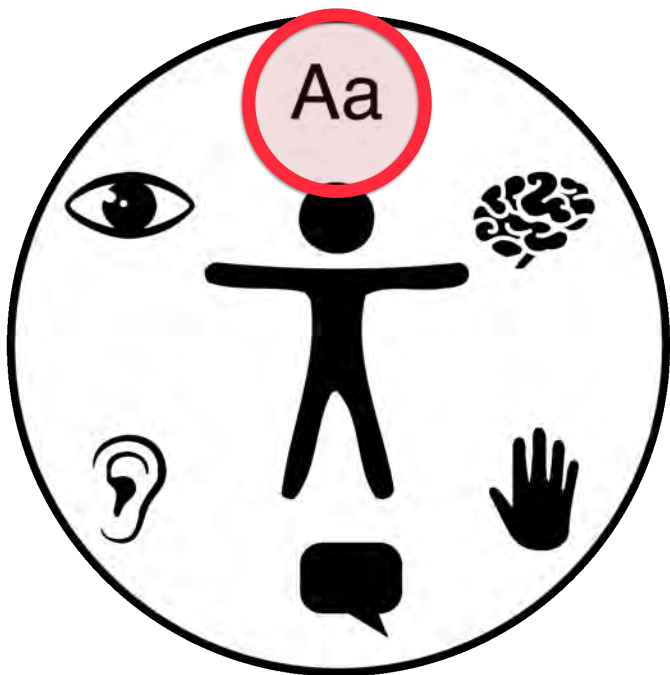


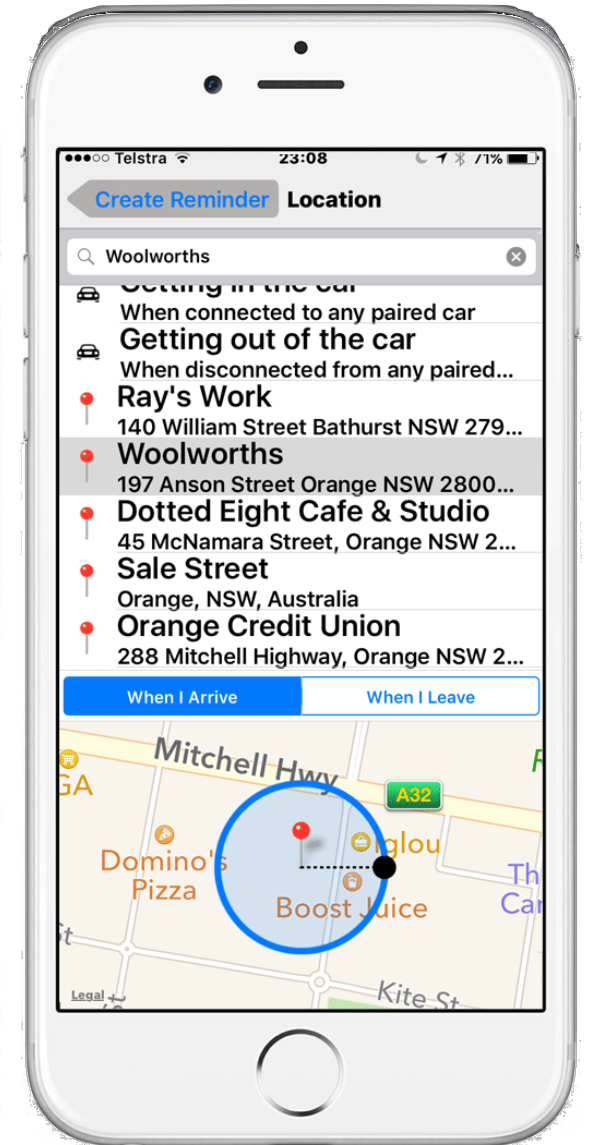
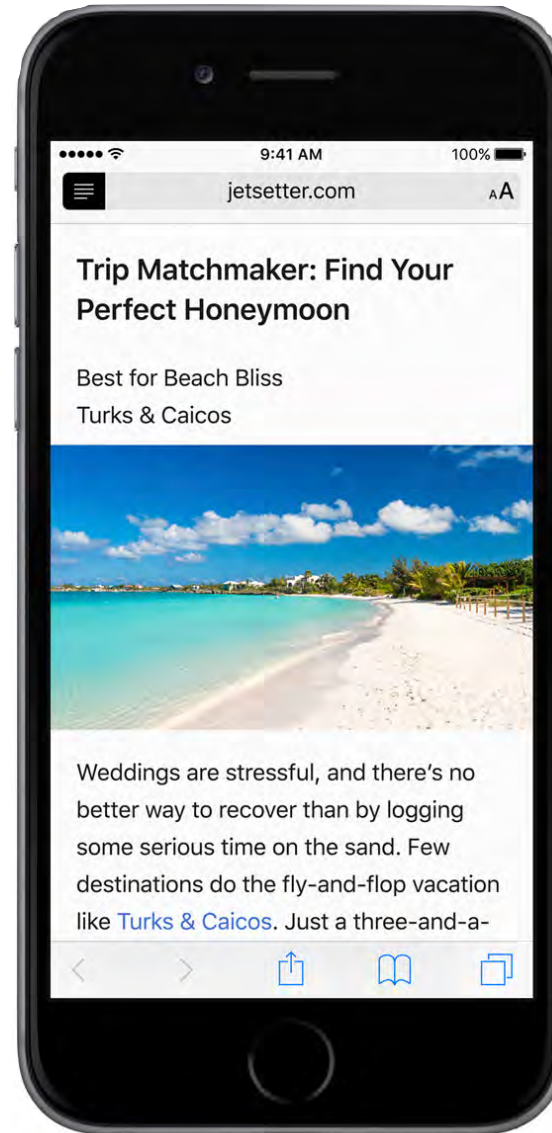
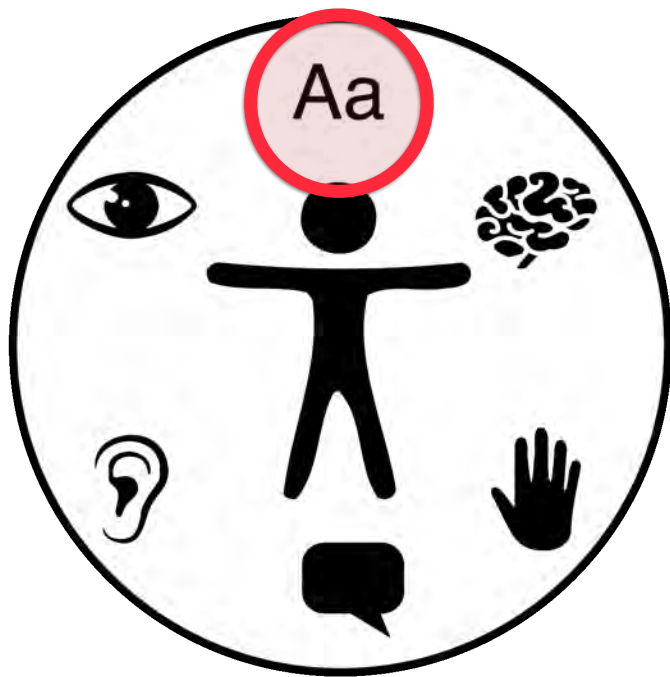








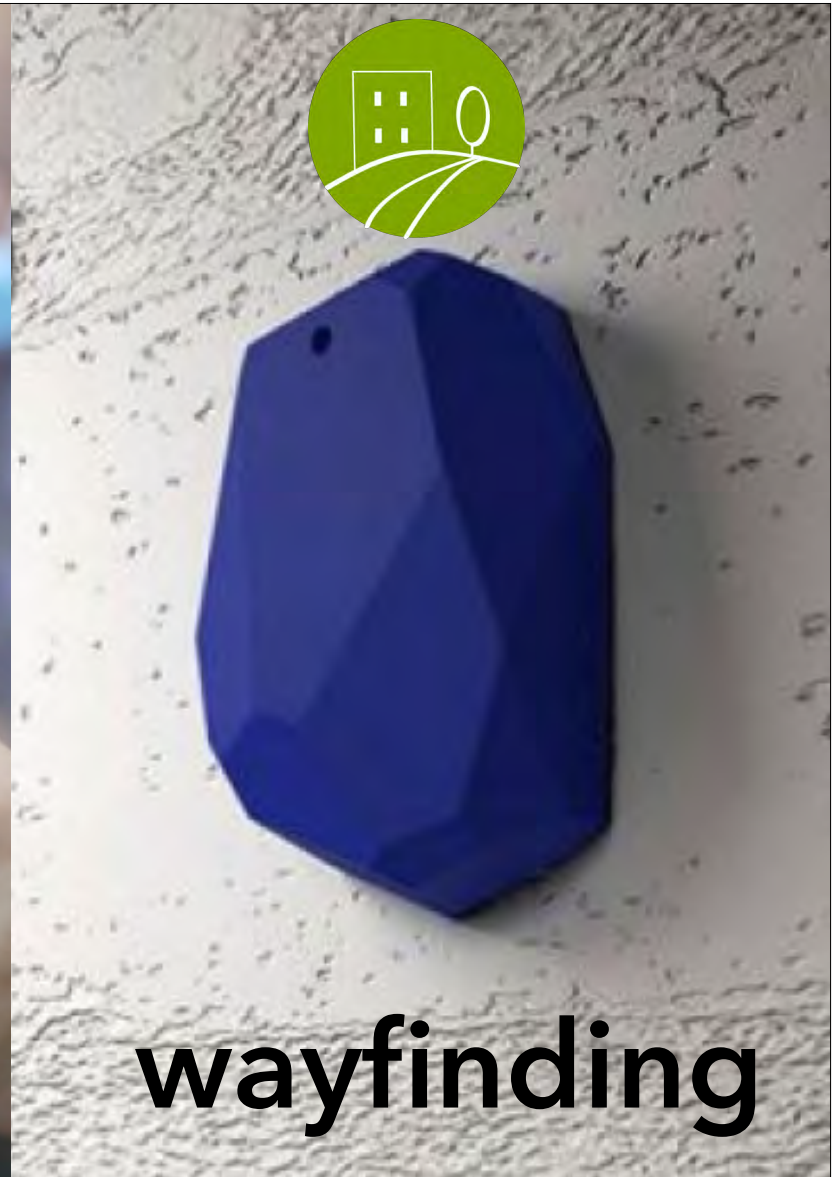


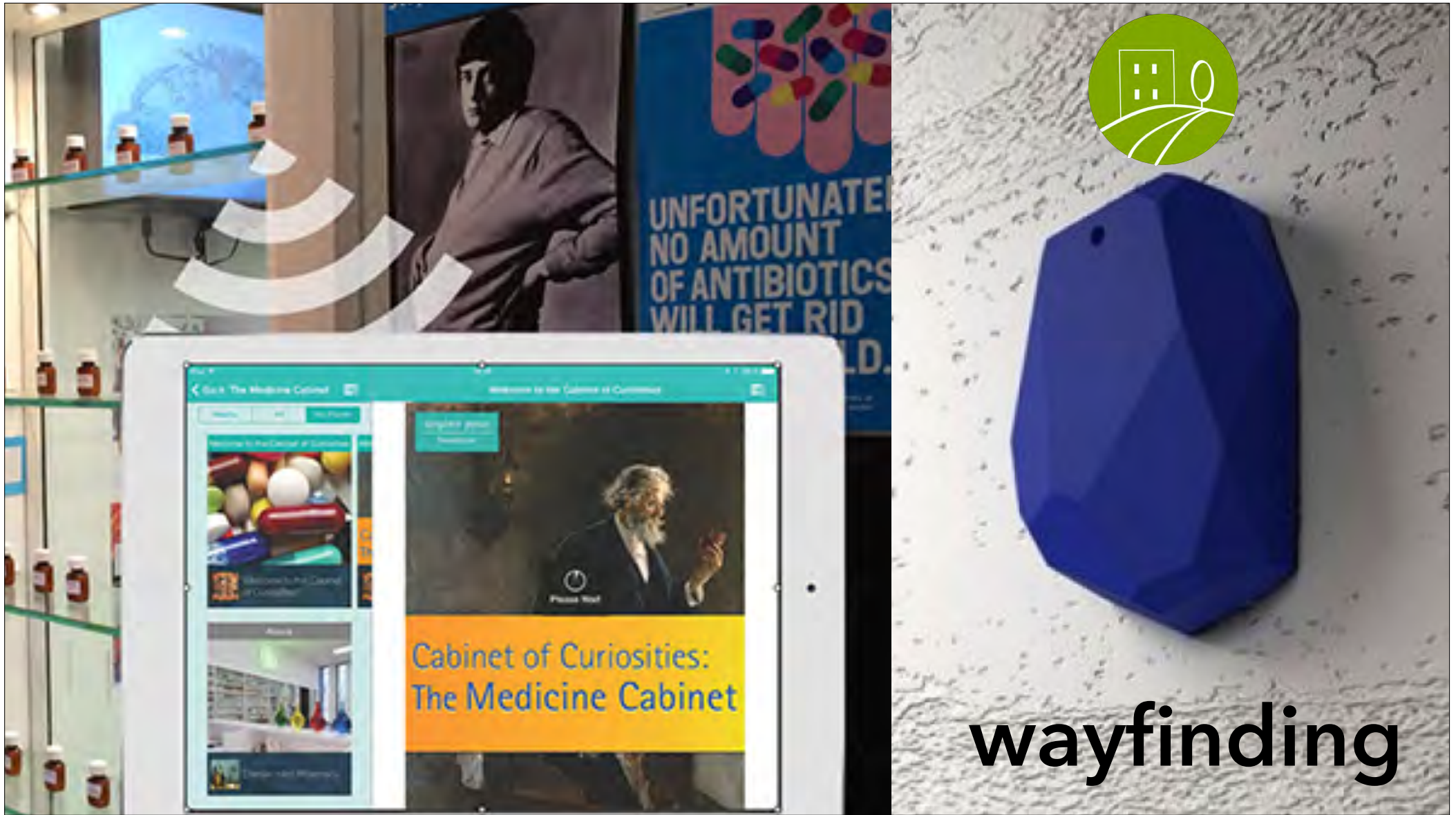


inclusive strategies

built environments







Touch Mapper





AfterShokz Treks Titanium

inclusive strategies

digital learning spaces



This section is based upon the work by Sarah Horton and Whitney Quesenbery - "A Web for Everyone: Designing Accessible User Experiences Paperback"



Learners first : design for difference

Learners are the first consideration, and resources are designed with the needs of everyone in the audience in mind.







digital standards

DSE

Web

Content

Level AA

Accessibility

Guidelines





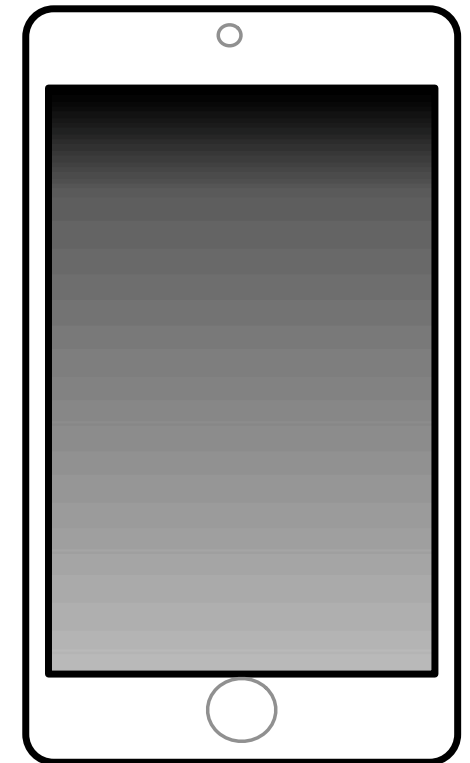
Learning design principles

1. Learners first
2. Clear purpose
3. Solid structure
4. Easy interaction
5. Helpful wayfinding
6. Clean presentation
7. Plain language
8. Accessible media
9. Universal usability



Clear purpose: **well-defined goals**

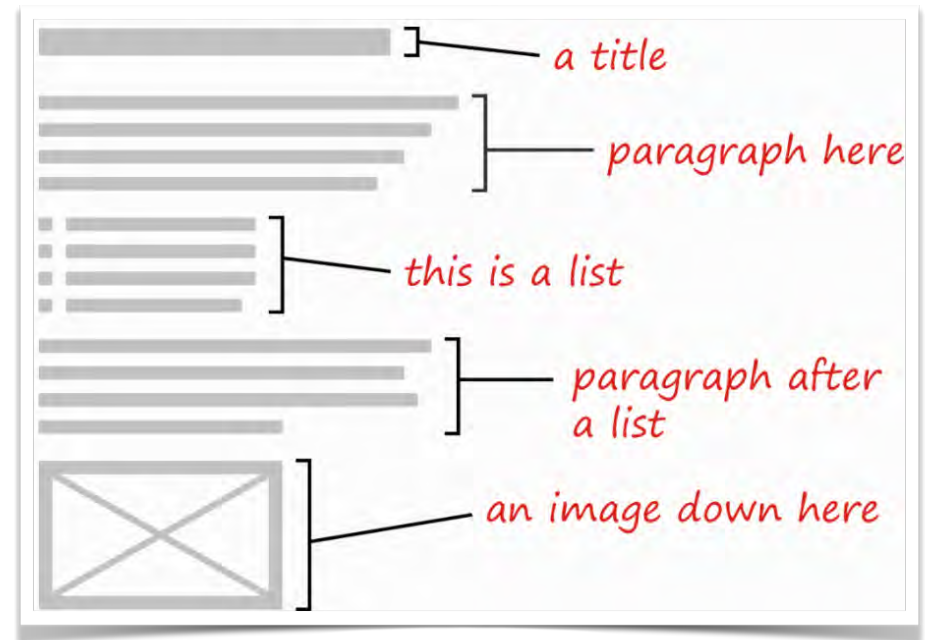
Learners enjoy resources that are designed for them and guided by a defined purpose and goals.





Solid structure: Built to standards

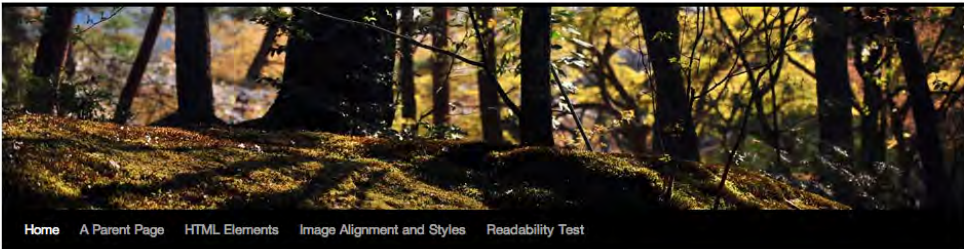
Learners feel confident using the design because it is stable, robust, and secure.





Solid structure: Built to standards


Twenty Ten Just another WordPress theme



Home A Parent Page HTML Elements Image Alignment and Styles Readability Test

Twenty Ten now available with WordPress 3.0
Posted on [June 18, 2010](#)

Theme Name: *Twenty Ten*
Theme URI: <http://wordpress.org/>
Description: *The 2010 default theme for WordPress.*
Author: *the WordPress team*
Version: *1.0*

 Just in case you haven't already heard the news: this theme is now available with today's [arrival of WordPress 3.0](#). Twenty Ten is just one of many features in this major new version of WordPress. I'm both very proud of and very grateful for the efforts of the many developers who contributed their code and advice during the development of

Search

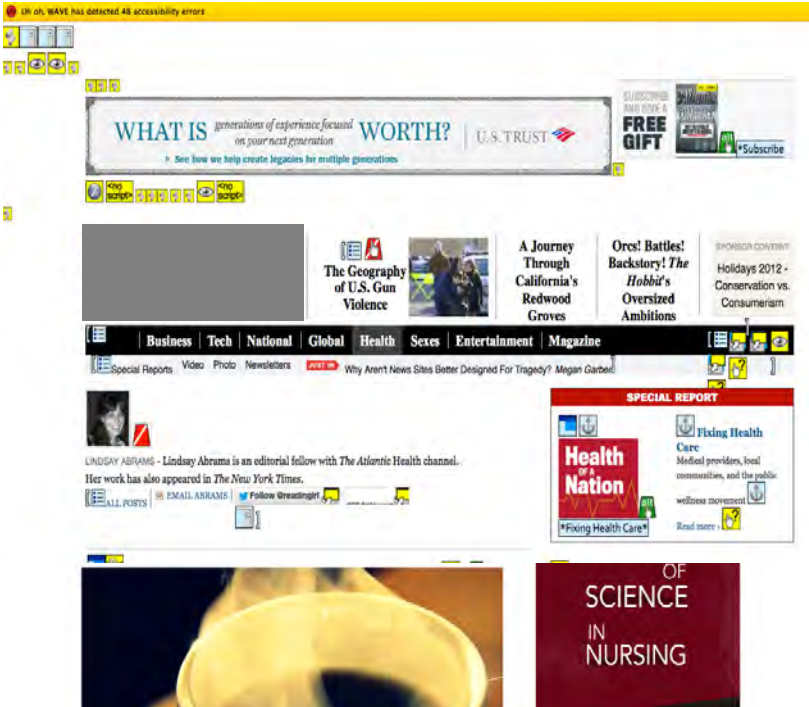
April 2012

M	T	W	T	F	S	S
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Recent Posts

- Twenty Ten now available with

Librati, WAVE has detected 48 accessibility errors



WHAT IS generations of experience focused on your next generation WORTH? U.S. TRUST

FREE GIFT

Business Tech National Global Health Sexes Entertainment Magazine

Special Reports Video Photo Newsletters Why Aren't News Sites Better Designed For Tragedy? Megan Garber

LINDSAY ABRAMS - Lindsay Abrams is an editorial fellow with The Atlantic Health channel. Her work has also appeared in The New York Times.

Health of a Nation

OF SCIENCE IN NURSING



Easy interaction: Everything works

Learners can use the resources across all devices using their own accessibility settings.





Easy interaction: Everything works

Learners can use the resources across all devices using their own accessibility settings.





Helpful wayfinding: guides users

People can navigate a site, feature, or page following self-explanatory signposts.



Helpful wayfinding: guides users

Driving directions to Provincetown, MA

1. Head southwest on Tremont St toward School St
2. Take the 1st left onto School St
3. Turn left onto Washington St
4. Turn right onto Water St
5. Take the 2nd right onto Congress St
6. Turn right onto Purchase St
7. Take the I-93 S ramp on the left to I-90 W/ Quincy/Worcester
8. Slight left onto I-93 S
9. Take exit 7 on the left toward Cape Cod
10. Merge onto MA-3 S
11. Continue onto U.S. 44 E
12. Continue onto MA-3 S
13. Continue onto US-6 E

The Challenge 495 followers

How might we create healthy communities within and beyond the workplace?

INSPIRATION: 337 suggestions | CONCEPTING: 108 concepts | APPLAUSE: Starts in 23 days | REFINEMENT: Starts in 30 days | EVALUATION: Starts in 30 days

Rethinking Office Furniture

Creating more ergonomic, flexible and multifunctional desks and chairs, making them multipurpose to work and relax better. What if your office desk could turn into a sofa?

Submitted by: David M. December 12, 2012 09:11 PM

13 votes | 2 comments | 3 applause

Build on this

Share this concept

Facebook | Twitter | Email to friends | LinkedIn

What are the benefits of your concept for the individual and the employer?

Encouraging employees to take a nap could result in having less stressed people at work and also could contribute to better ideas. According to several scientific studies, here are the benefits of napping:

The image shows a video player interface for a video titled "iPad Tips & Tricks V5". On the left, a "Table of Contents" sidebar is open, listing various topics and their corresponding video durations. The video frame on the right shows a woman with blonde hair and glasses speaking at what appears to be a conference or event. Subtitles at the bottom of the video frame read: "at we have in our own hands, so I think what we need".

Topic	Duration
Thumbnails	
Intro Movie	0:58
Introduction	i
▶ 1 Accessibility	5
▶ 2 Keyboard	29
▶ 3 Safari	42
▶ 4 Mail	57
▶ 5 Photos	64
▶ 6 App Support	78
▶ 7 Siri	93
▶ 8 Organisation	96
▶ 9 Control & Notification Centres	108
▶ 10 Security	114
▶ 11 Settings	122



Clean presentation: Supports meaning

Learners can perceive and understand elements in the design.





Clean presentation: Supports meaning

The Runner

Private William Williams was well respected within his battalion. He was a 'runner' or messenger in battle, a trusted role that conveyed important communications between **companies**. William Williams was in 'C' company.

⊕ Activity - Crack the Code



Members of the 45th Battalion in the advanced trenches at Garter Point, Belgium, in the Ypres Sector, September 1917.

• • • •
This was a very dangerous job as he had to jump between deep trenches and run messages along the lines, all the time in danger of enemy fire.



14



Clean presentation: Flexible / personalisation

Chapter 2: Introduction to Ecology

African savannas capture the imagination, as they are laden with charismatic animals: herds of zebra, impalas, majestic elephants and rhinoceros; and predators like lions and cheetahs.

The keys to understanding the ecology of African savanna are climate and fire. Climate is the most important factor. Rainfall must be moderate, not too much or too little at 35 to 125 centimeters (15 to 50 inches) per year, and the rainfall must be concentrated in a wet season, followed by a dry season. During the dry season, the drought-tolerant but tinder-like grasses can burn, ignited by

Movie Restorative Fire

Movie The African savanna was the cra...

Chapter 2: Introduction to Ecology

The keys to understanding the ecology of African savanna are climate and fire. Climate is the most important factor. Rainfall must be moderate, not

Movie Restorative Fire

Movie The African savanna was the cra...

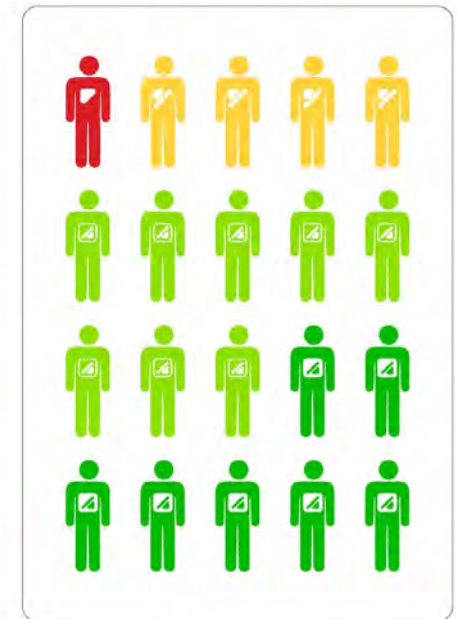


Plain language: creates a conversation

Learners can read,
understand, and use the
information.



Portugal



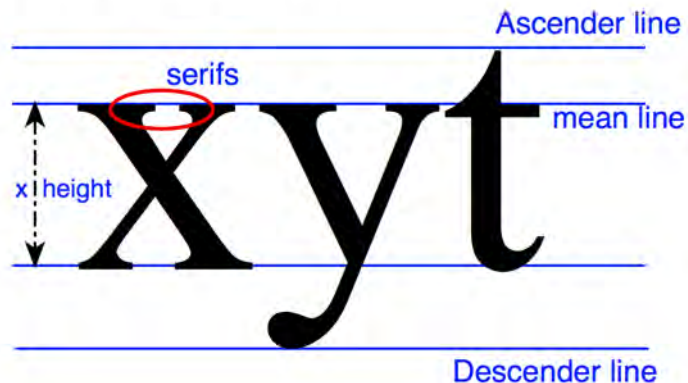
Sweden

Font height difference

Verdana vs Times New Roman



Font elements



Single line spacing

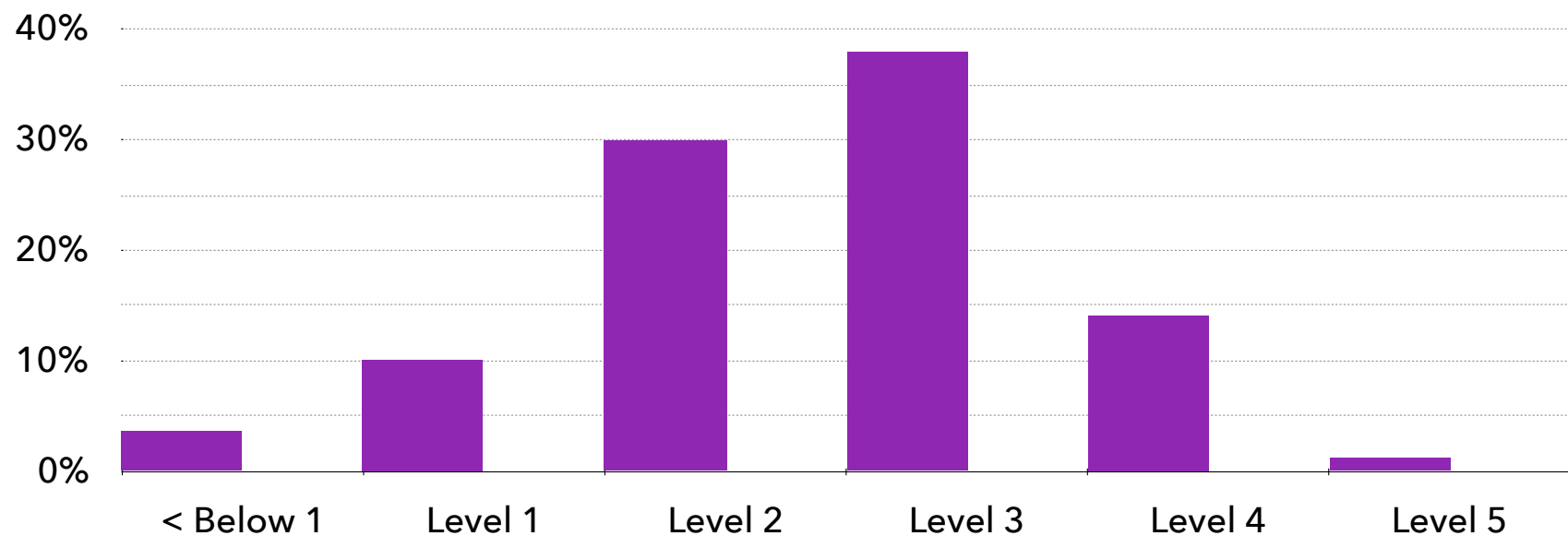
Apple products are simple, intuitive and easy to use. And to help you do more in more ways, a variety of award-winning assistive technologies come standard. So every device has not only accessible features — but also accessible principles — built in.

1.5 line spacing

Apple products are simple, intuitive and easy to use. And to help you do more in more ways, a variety of award-winning assistive technologies come standard. So every device has not only accessible features — but also accessible principles — built in.



Plain language: different levels of literacy



Skill Levels In Literacy: Around 3.7% (620,000) of Australians aged 15 to 74 years had literacy skills at Below Level 1, a further 10% (1.7 million) at Level 1, 30% (5.0 million) at Level 2, 38% (6.3 million) at Level 3, 14% (2.4 million) at Level 4, and 1.2% (200,000) at Level 5. Source: 2011-12 Programme for the International Assessment of Adult Competencies (PIAAC) <http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/4228.0Main+Features202011-12>



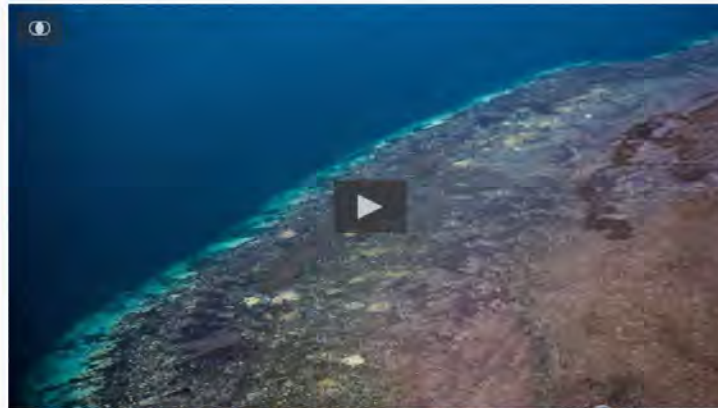
Plain language: Organize for meaning

Clear title

Great Barrier Reef coral bleaching at 95 per cent in northern section, aerial survey reveals

7:30 By Peter McCutcheon
Updated about 2 hours ago

Multimodal



VIDEO: Of the 520 reefs he surveyed, only four showed no evidence of bleaching (ABC News)

Clear summary

An aerial survey of the northern Great Barrier Reef has shown that 95 per cent of the reefs are now severely bleached — far worse than previously thought.

Professor Terry Hughes, a coral reef expert based at James Cook University in Townsville who led the survey team, said the situation is now critical.

"This will change the Great Barrier Reef forever," Professor Hughes told 7.30.

"We're seeing huge levels of bleaching in the northern thousand-kilometre stretch of the Great Barrier Reef."

Of the 520 reefs he surveyed, only four showed no evidence of bleaching.

From Cairns to the Torres Strait, the once colourful

PHOTO: The aerial survey found bleached coral off Cape Grenville in north Queensland. (ARC Centre of Excellence Coral Reef Studies)

RELATED STORY: PM urged to show 'same level of commitment' to reef as Abbott

RELATED STORY: Barrier Reef coral bleaching threat level increased

MAP: Townsville 4810

Key points:

- 95 per cent of the Great Barrier Reef's northern reefs rated as severely bleached
- Only 4 out of 520 reefs surveyed were found to be unaffected by bleaching
- Third global coral bleaching event since 1998

States risk in text

Key points



Accessible media: supports all senses

Learners can understand and use information contained in media, such as images, audio, video, animation, and presentations.





Accessible media: **Meaningful alternatives**

What's the right ALT text for this image?

- A. Fox
- B. Red fox
- C. A red fox, standing on a pile of rocks, looking back at the camera
- D. Red fox at Sachuest Point National Wildlife Refuge

It depends on context!





Accessible media: Synchronized audio+text



Watch Discover Attend Participate About

Search...



Log in Sign up

Rosie King:

How autism freed me to be myself

TEDMED 2014 · 06:08 · Filmed Sep 2014

36 subtitle languages

View interactive transcript



Watch later



Favorite



Download



Rate

Share this idea



Facebook



Twitter



Email



Embed



More

1,787,103 Total views

“People are so afraid of variety that they try to fit everything into a tiny little box with a specific label,” says 16-year-old Rosie King, who is bold, brash and autistic. She wants to know: Why is everyone so worried about being



Accessible media: Synchronized audio+text

c|net Search CNET Q Reviews News Video How To Deals US Edition

than trying to find somebody to ask, if I use

0:42 / 01:55

How Apple iPhones copilot for the blind: Mobile

About Video Share (78) **Transcript** Contact us

NEW RELEASES

My name's David Woodbridge and I work as an assistant technology consultant at Vision Australia about ten years ago. I used to carry about eight different devices around, such things as light detection to tell the lights are on and off. Now Nowadays I've got all those different products in

RELATED VIDEOS /

What to do when your iPhone's screen breaks

FBI drops Apple court case after unlocking terrorist's...

YOU'RE DOING IT It's time to make Android bloatware disappear



Universal usability: create delight

People can focus on the experience and their own goals because the product anticipates their needs.

Simple.com

A screenshot of the Simple.com account setup page. The page features a 'Congratulations!' message and a 'Create your credentials' step. It includes a 'Username' field, a 'Passphrase' field with a 'show passphrase' button, and a 'Save username and passphrase' button. There is also a 'Set up your phone' step with an 'App Store' icon and a 'Text me the link!' button. A 'Simple card' image is shown in the top right corner.

Simple

Congratulations!
We're happy to have you aboard!
Your Simple card should arrive in the mail in five to seven business days. Until then, let's set up the rest of your account.

1 Create your credentials

Username

Passphrase
Use a 3-4 word phrase that only you'll remember

Passphrase? Yes. Passphrases are easier to remember and more secure than traditional passwords. For example, try a group of words with spaces in between, or a sentence you know you'll remember. Correct: horae battery staple is a better passphrase than r0b0tz26.

2 Set up your phone

Available on the iPhone
App Store

Click on the icons above to download the app from the Apple App Store. Or, click below and we'll send you an SMS with the link. You can also search for "Simple Finance" in the App Store if you prefer to do things the old-fashioned way.

You must install the app to continue. Leave this page open! Once you've

Contact Greg

E: gregalchin@me.com

T: @ibuddha

M: 0403273063

