



Mobile and Accessibility

<http://pz.tt/desertmobile>





Speech-to-text program

Onscreen magnifier

Keyboard only

Screen reader

Epilepsy / Migraines

Fibromyalgia

Dyslexia

PTSD

It's not just
about vision
impairments



Our Services

- Audits
- Mobile testing
- Building web sites
- CMS testing
- Accessible design
- Video accessibility
- User testing
- OS / browser testing
- Consultation
- Accessible documents



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Our Products

- OzPlayer
- OzART
- OzWiki
- A11y Voices

More information:
www.accessibilityoz.com



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Mobile accessibility features

Native screen readers

- TalkBack (Android)
- Narrator (Windows)
- VoiceOver (iOS)

Text-to-speech / speech recognition

Volume control

Visual, auditory and vibrational notifications

Haptic keyboard

Zoom



Mobile accessibility features

System accessibility settings:

- Font size
- Touch and hold delay
- Screen rotation
- High contrast
- Assistive touch
- Mono audio (left / right balance)



Specific mobile requirements

There is some correlation between mobile site / app issues and the WCAG2 guidelines - however, **mobile sites / apps are not specifically covered by WCAG2.**

For example, although WCAG2 requires sites/apps to be accessible to the keyboard user it does not specify that it should also be accessible to the mouse or touchscreen user.





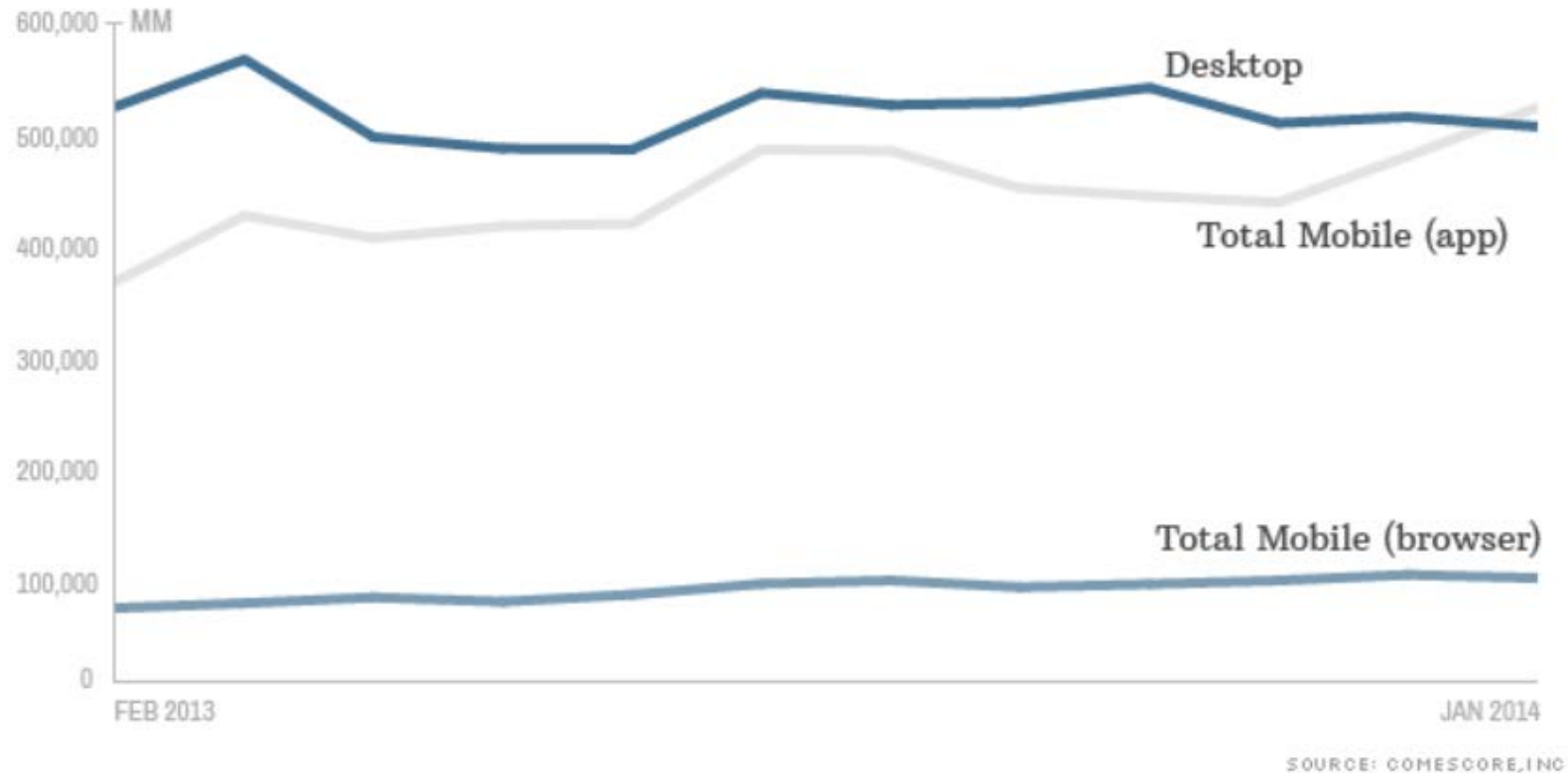
Mobile usage

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US mobile vs desktop usage

US time spent accessing the internet by device



US mobile
usage

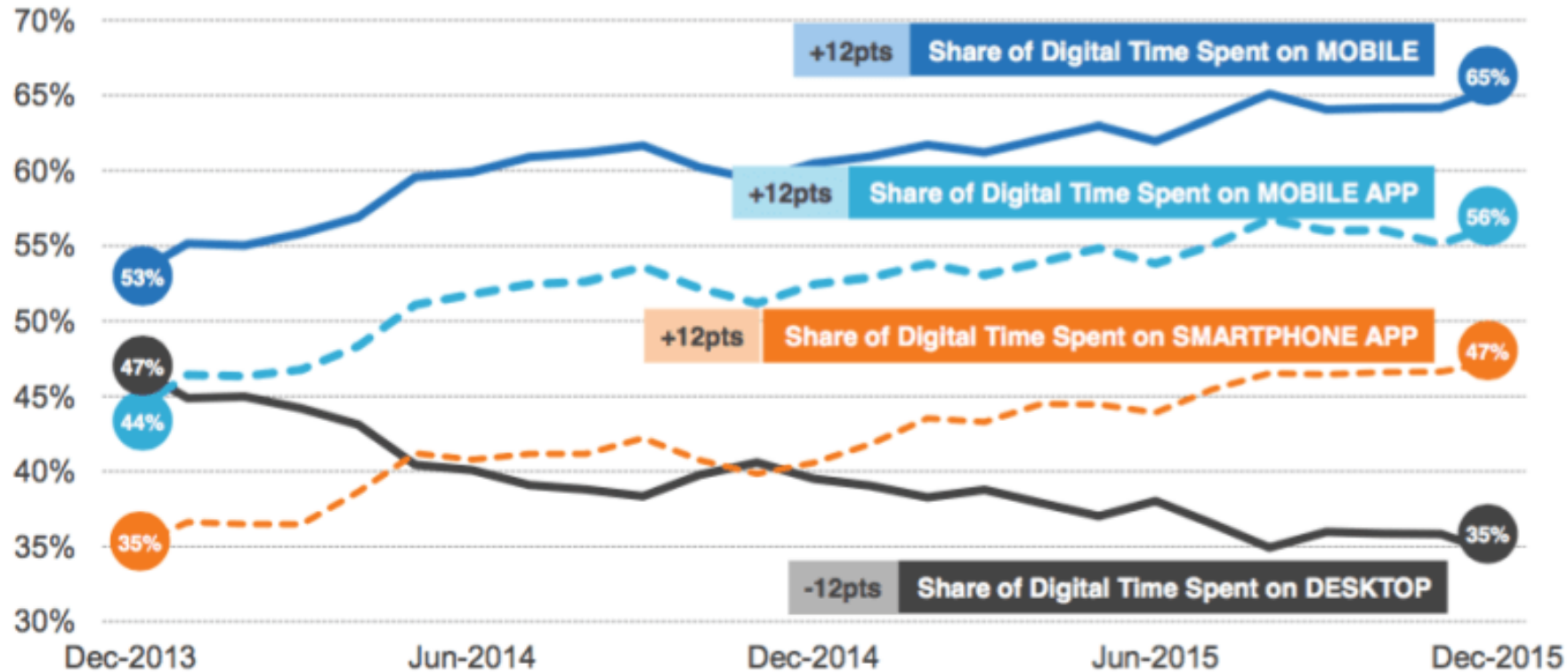


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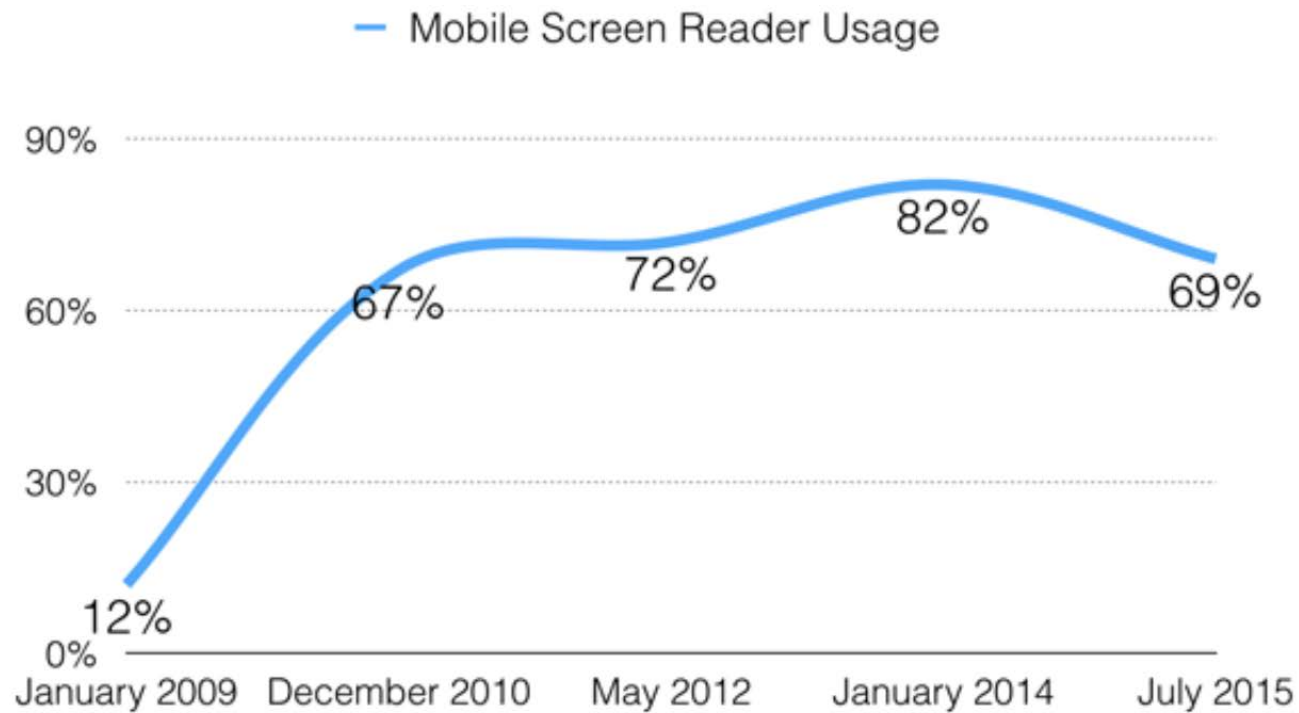
More recent statistics

Share of Digital Media Time Spent by Platform
Source: comScore Media Metrix Multi-Platform & Mobile Metrix, U.S., Total Audience



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Mobile screen reader use



Percentage of screen reader users that use mobile



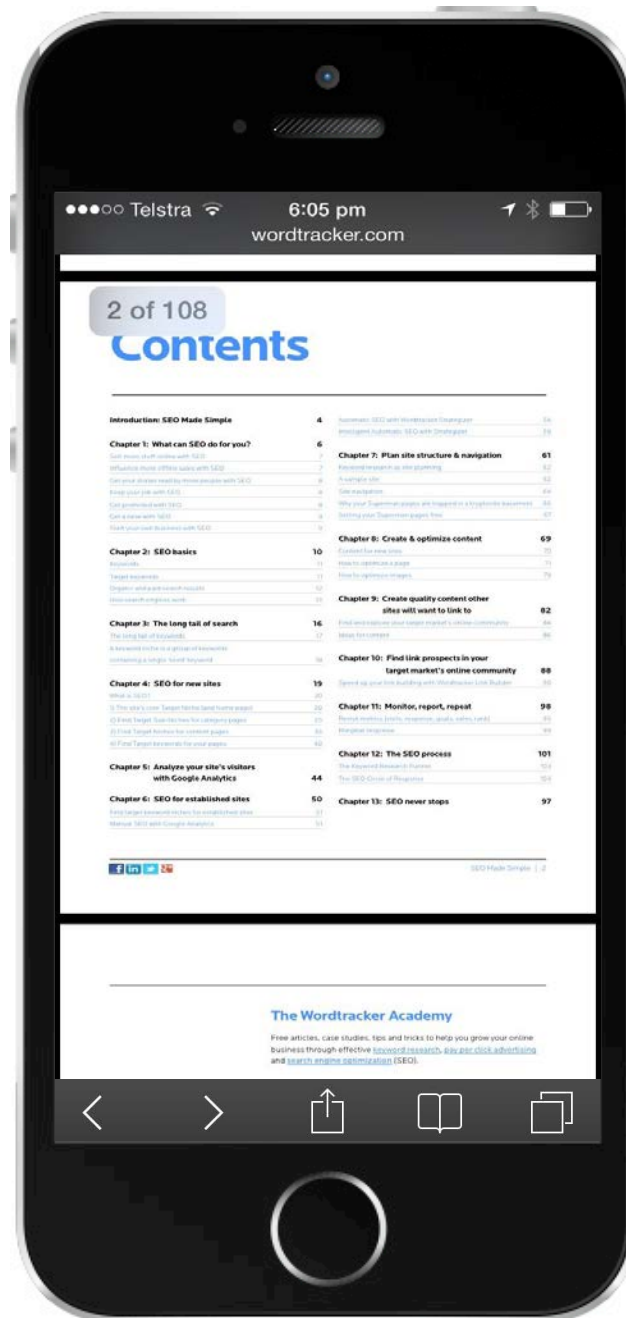
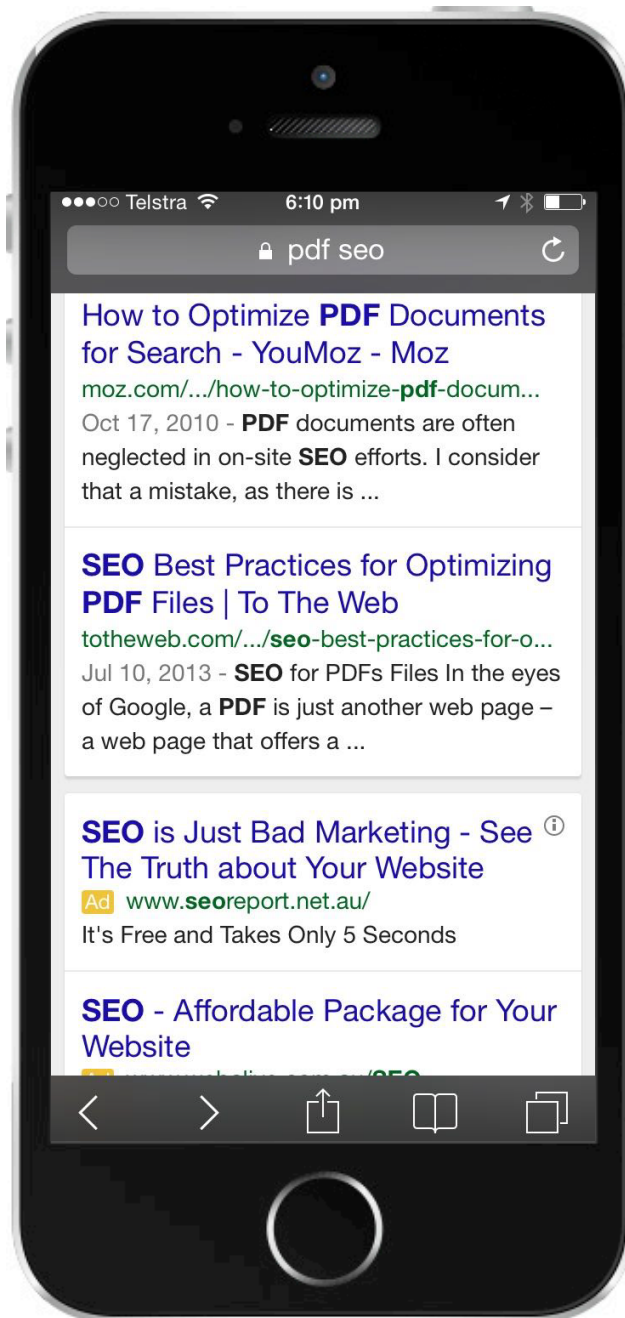
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Mobile-specific issues

PDFs

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PDFs

Not mobile friendly



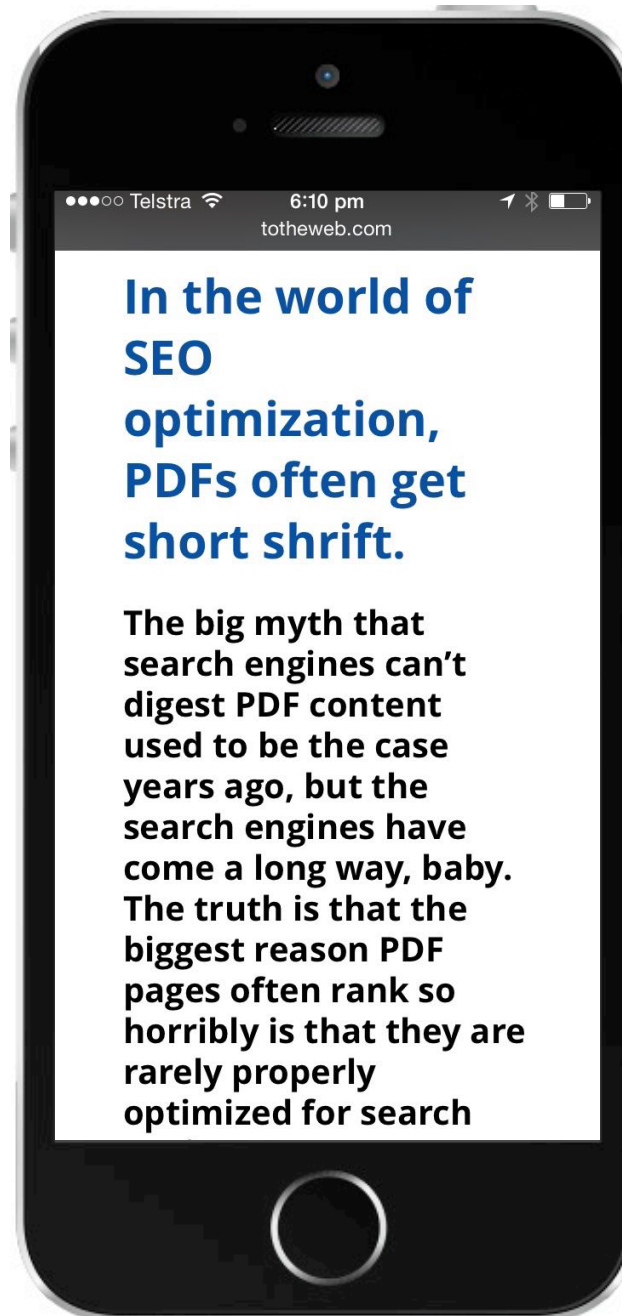
PDFs

Which would you prefer?



In the world of SEO optimization, PDFs often get short shrift.

The big myth that search engines can't digest PDF content used to be the case years ago, but the search engines have come a long way, baby. The truth is that the biggest reason PDF pages often rank so horribly is that they are rarely properly optimized for search





Larger file
sizes + slower
connection
equals
longer
download +
increased
data usage

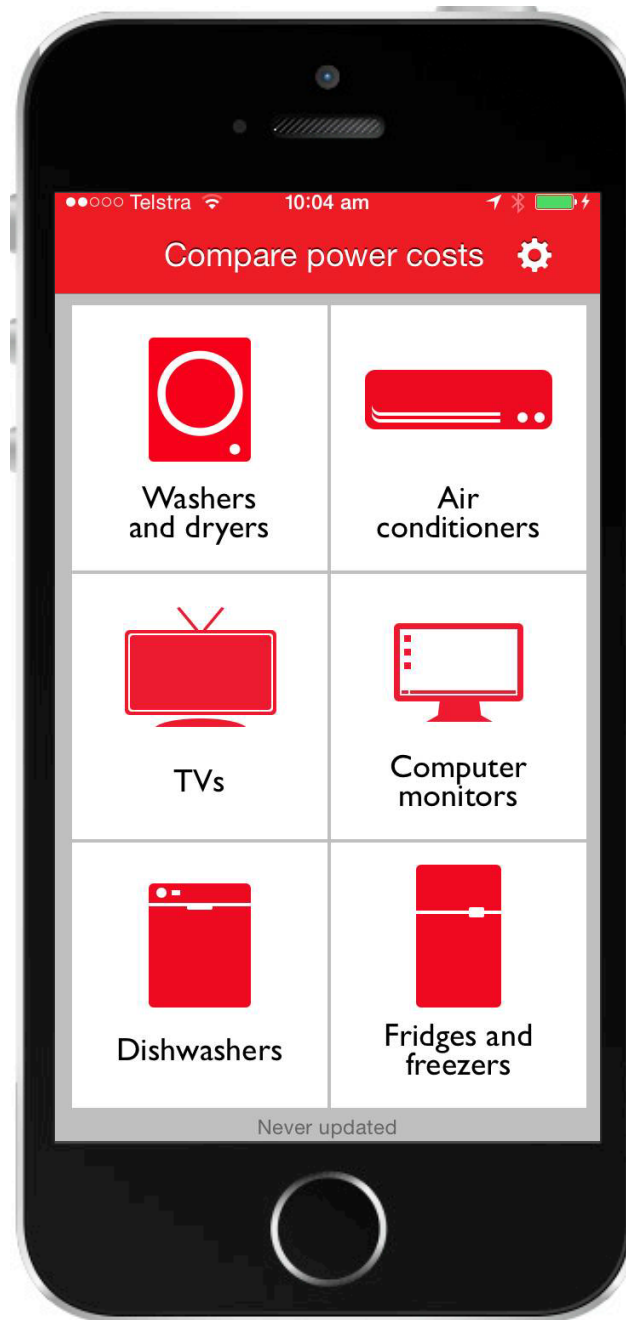
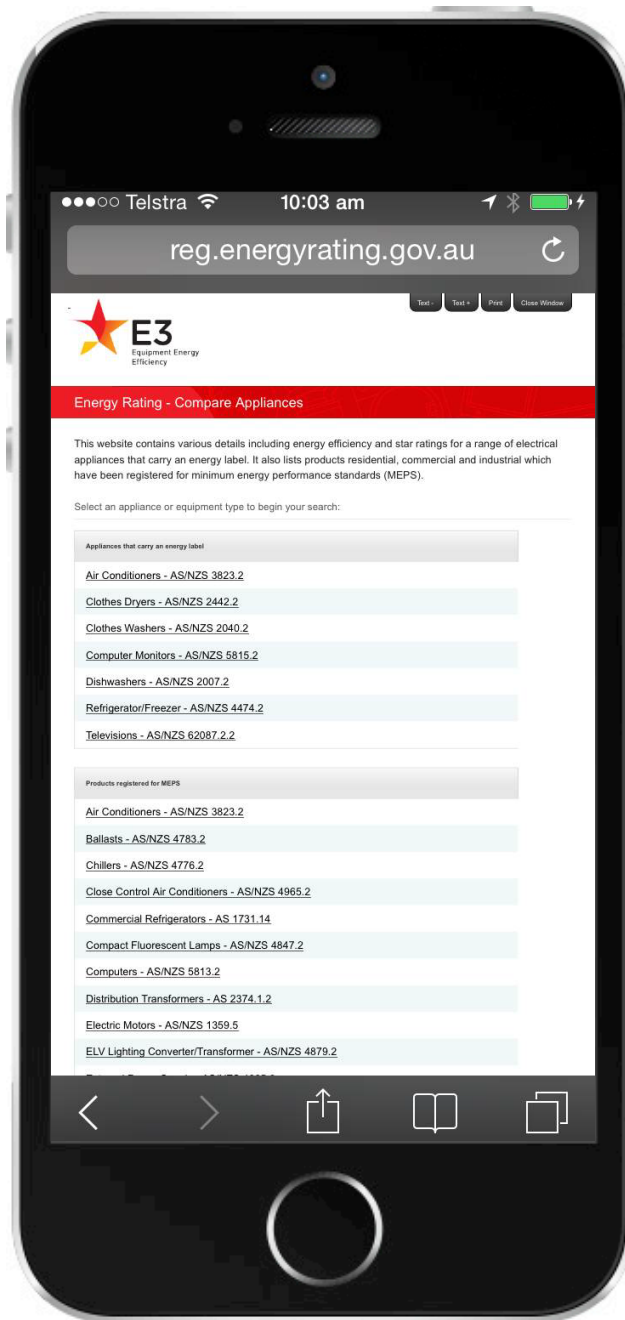


Mobile-specific
issues

Friendly to mobile

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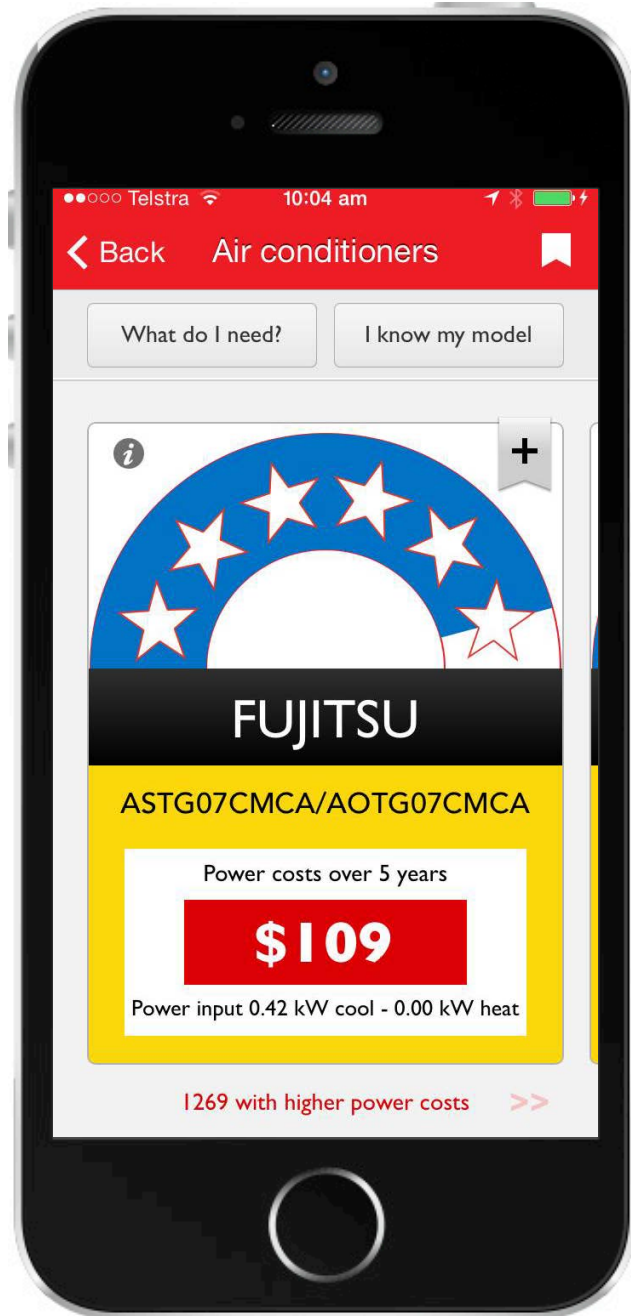
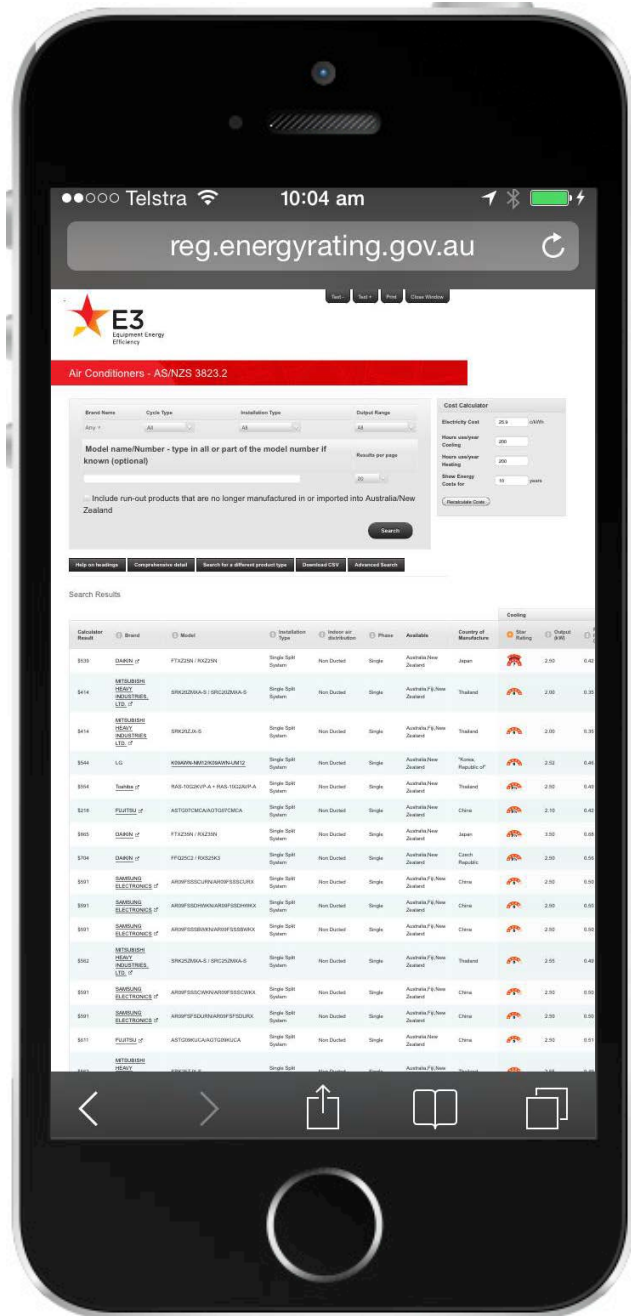
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Mobile sites

Which would you prefer?

Mobile sites



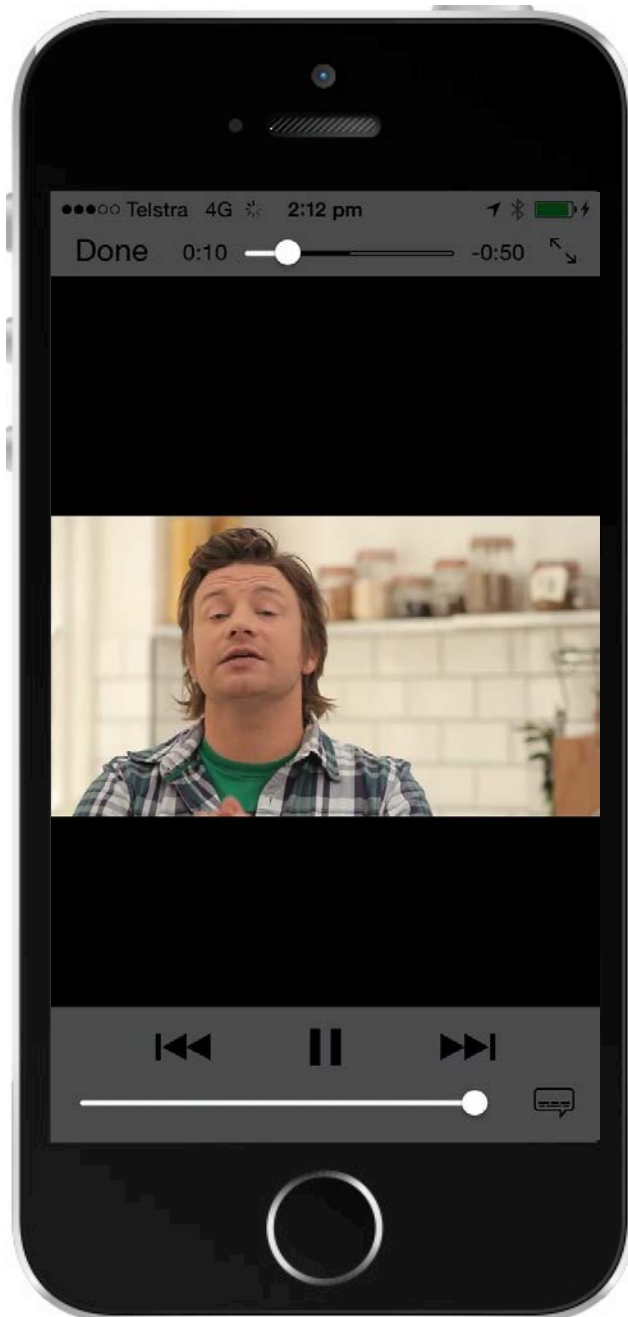
Which would you prefer?



Mobile issues

Autoplay & movement

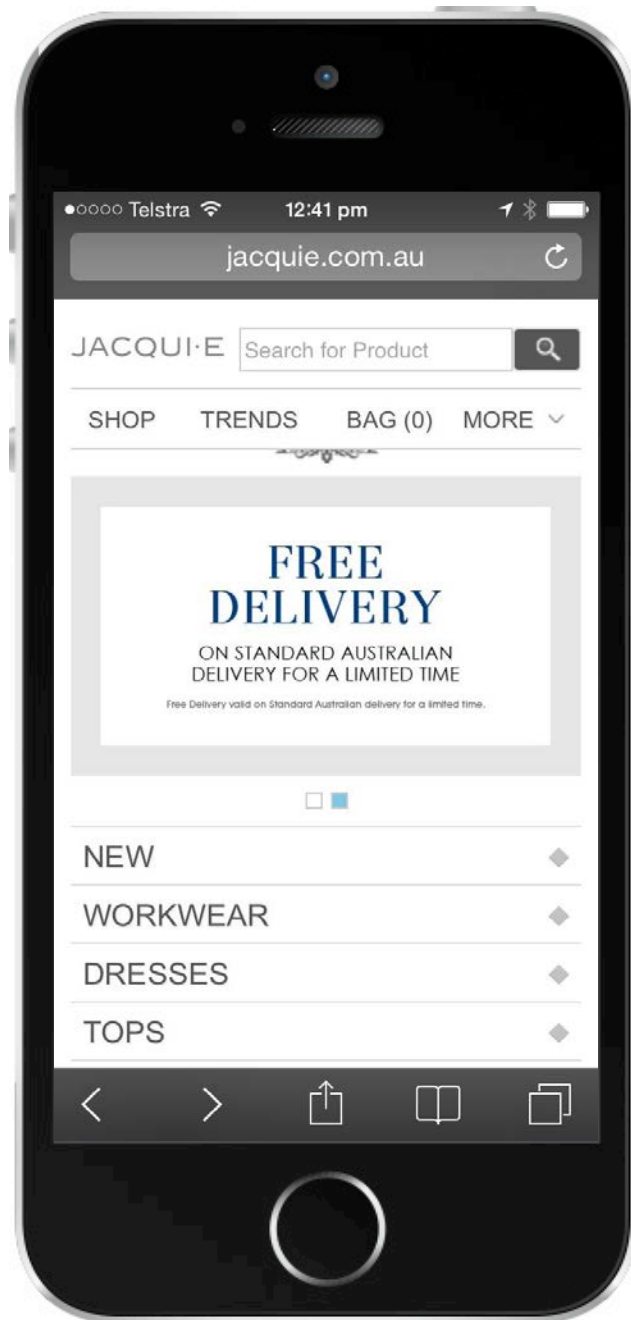
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accessibilityoz.com



Autoplay

#AccessibilityFail

One of the most serious accessibility failures of all time



Continuous movement

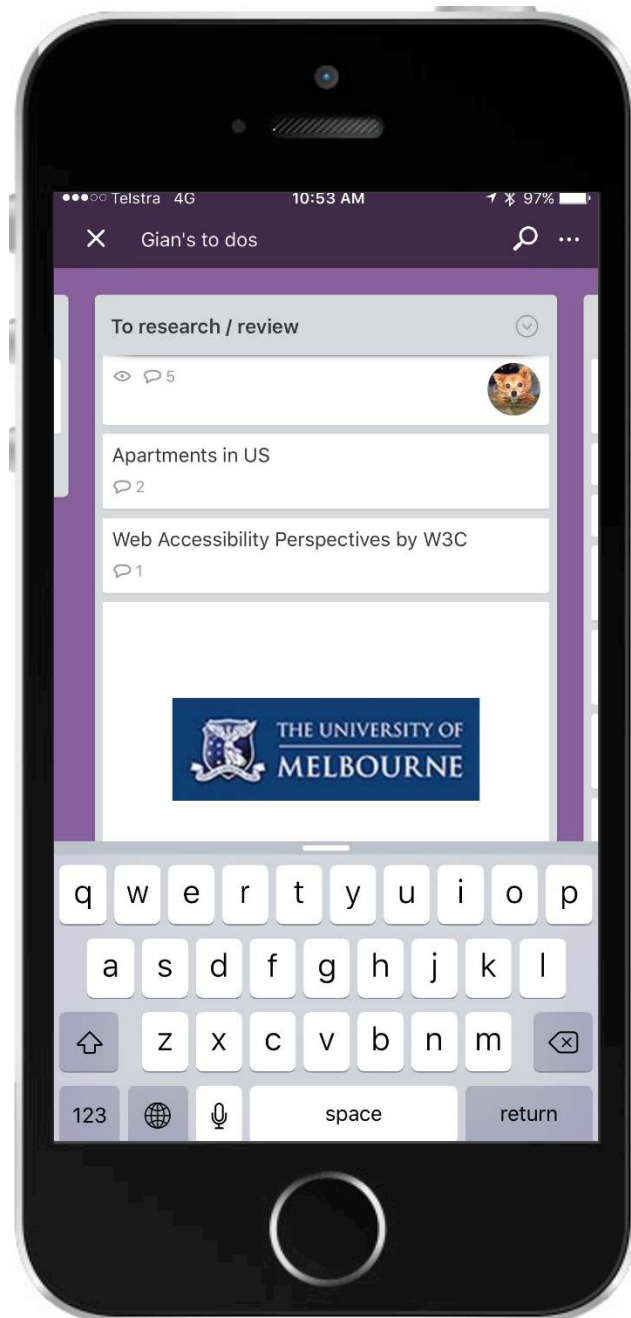
#Annoying



Mobile issues

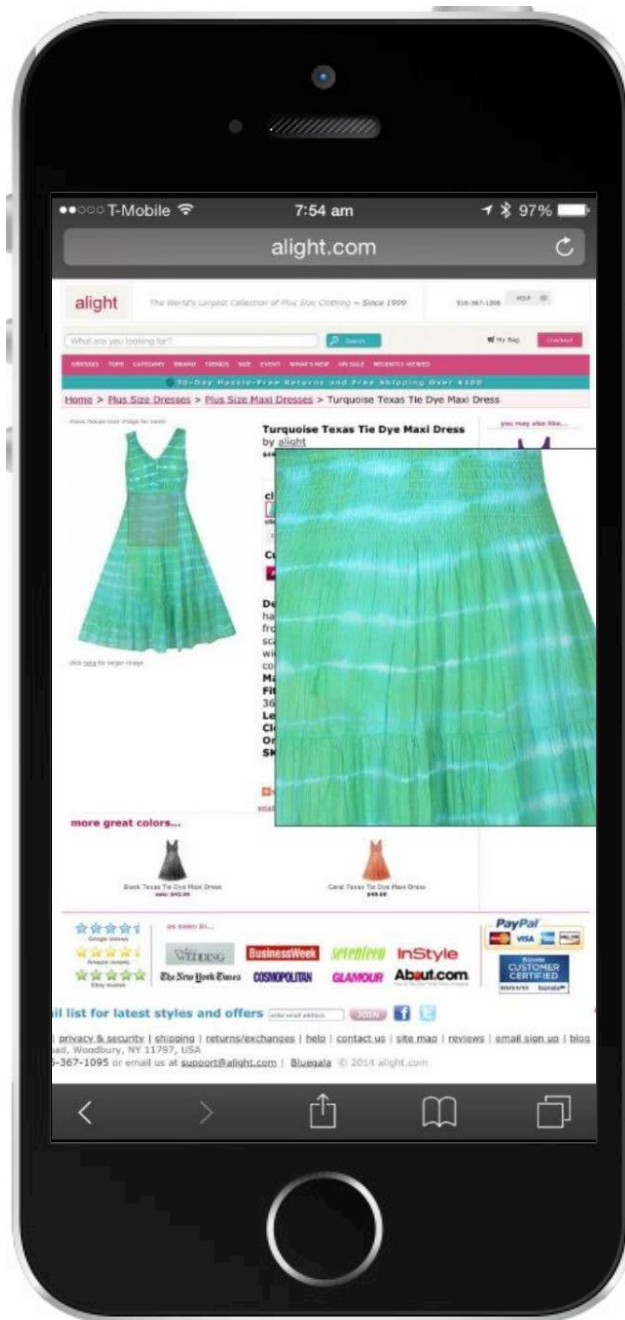
Traps

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Onscreen keyboard trap

Cannot dismiss keyboard



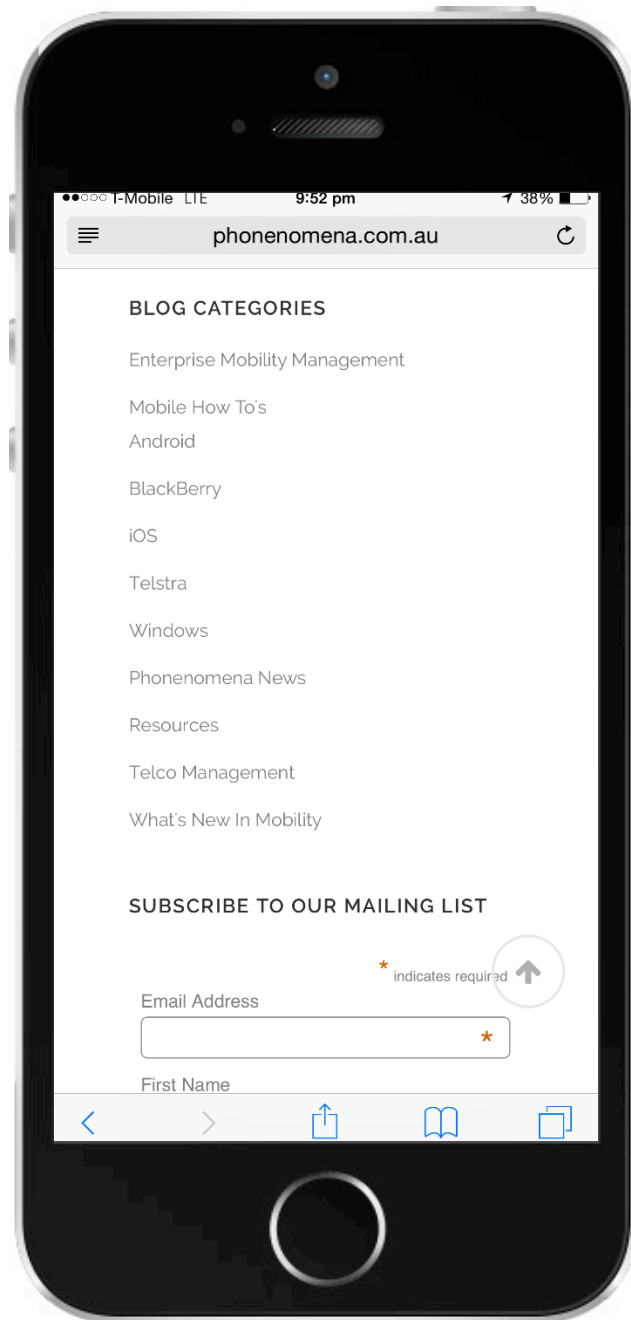
Hover trap

Cannot dismiss zoomed in section



Voiceover swipe trap

LinkedIn – status update
Cannot dismiss page or
access keyboard or back
buttons



Touch trap

Cannot move the screen unless you activate the up arrow

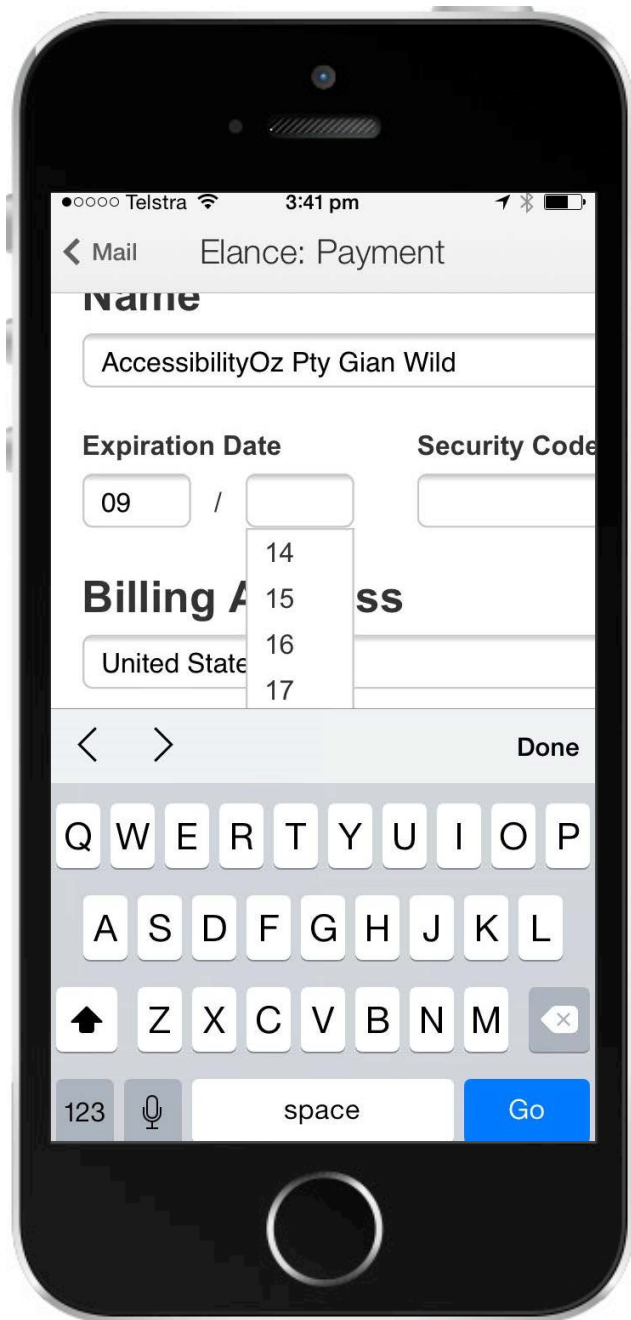


Mobile issues

Access

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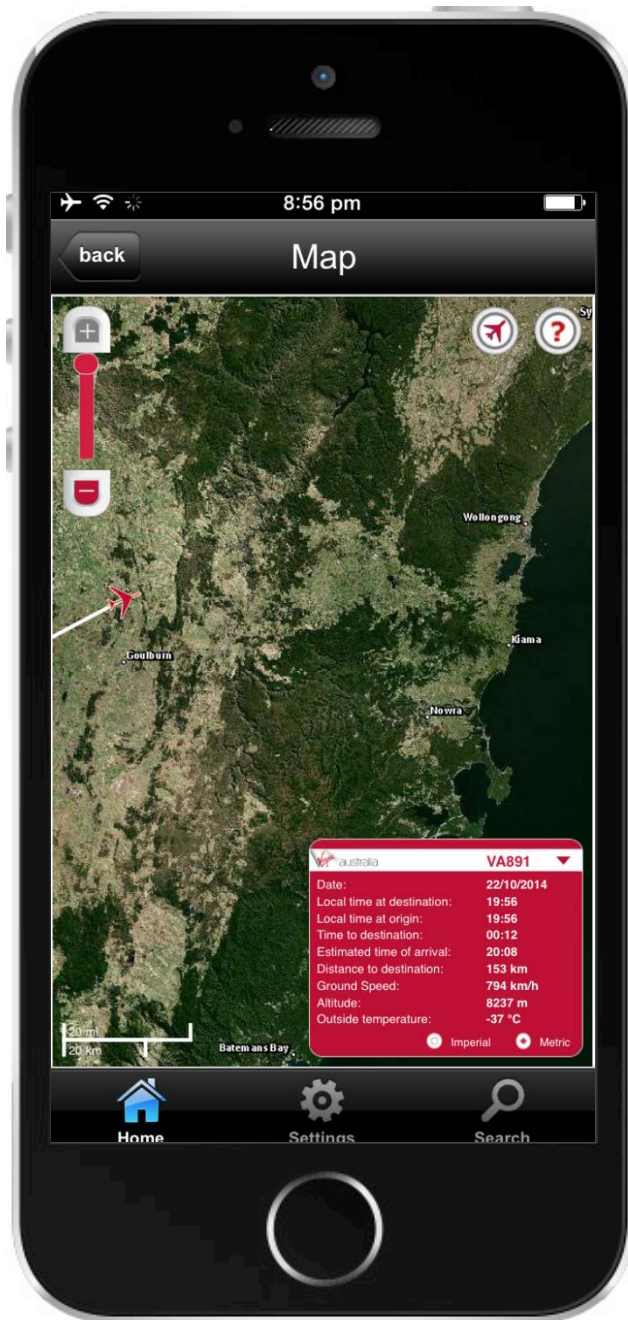
Keyboard

Know your inputs



Mobile issues

Text size too small



Text size too small

Too small

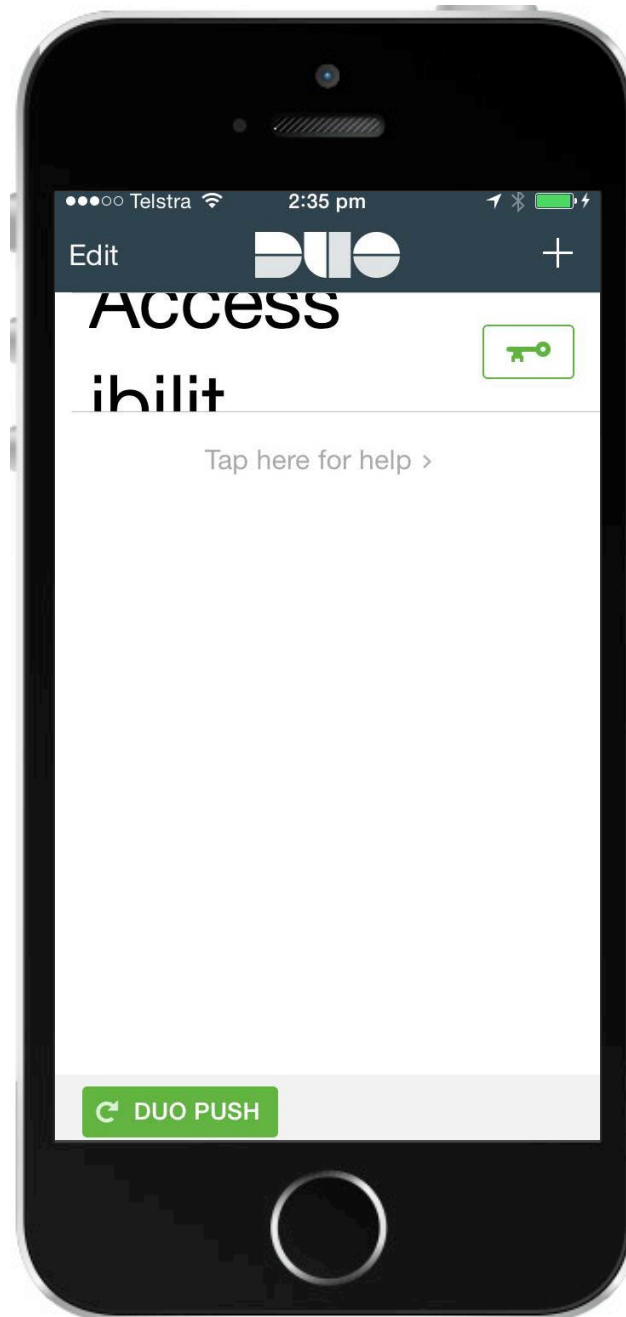
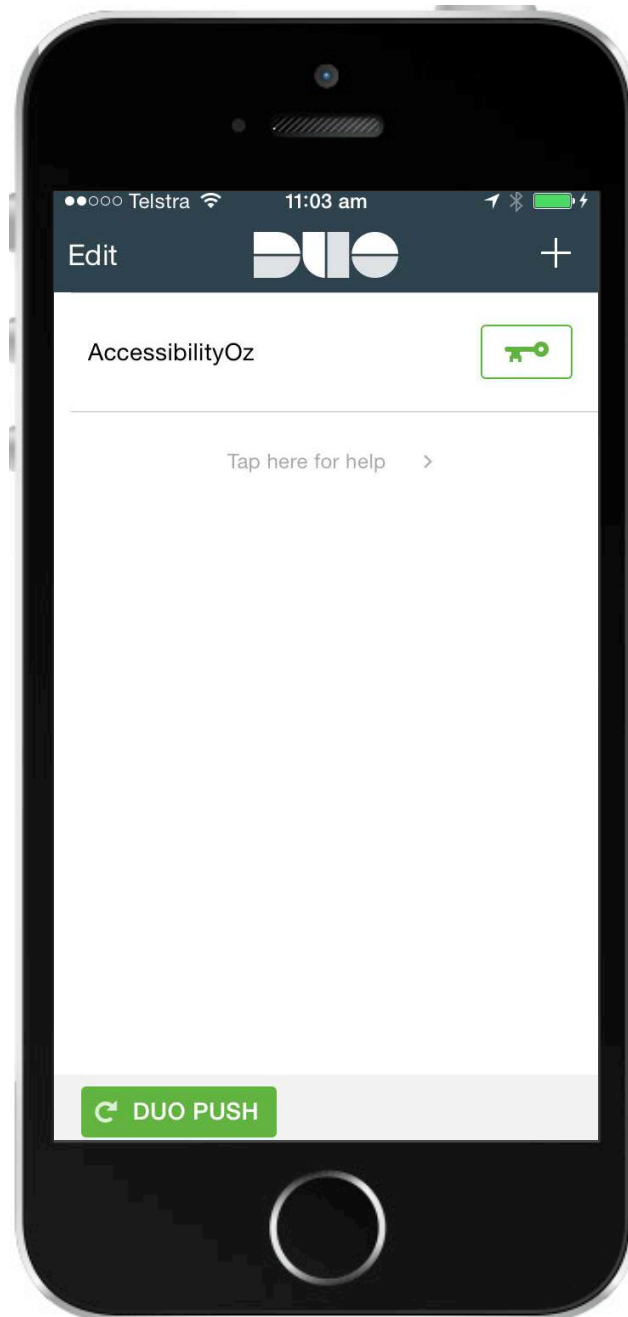


Mobile issues

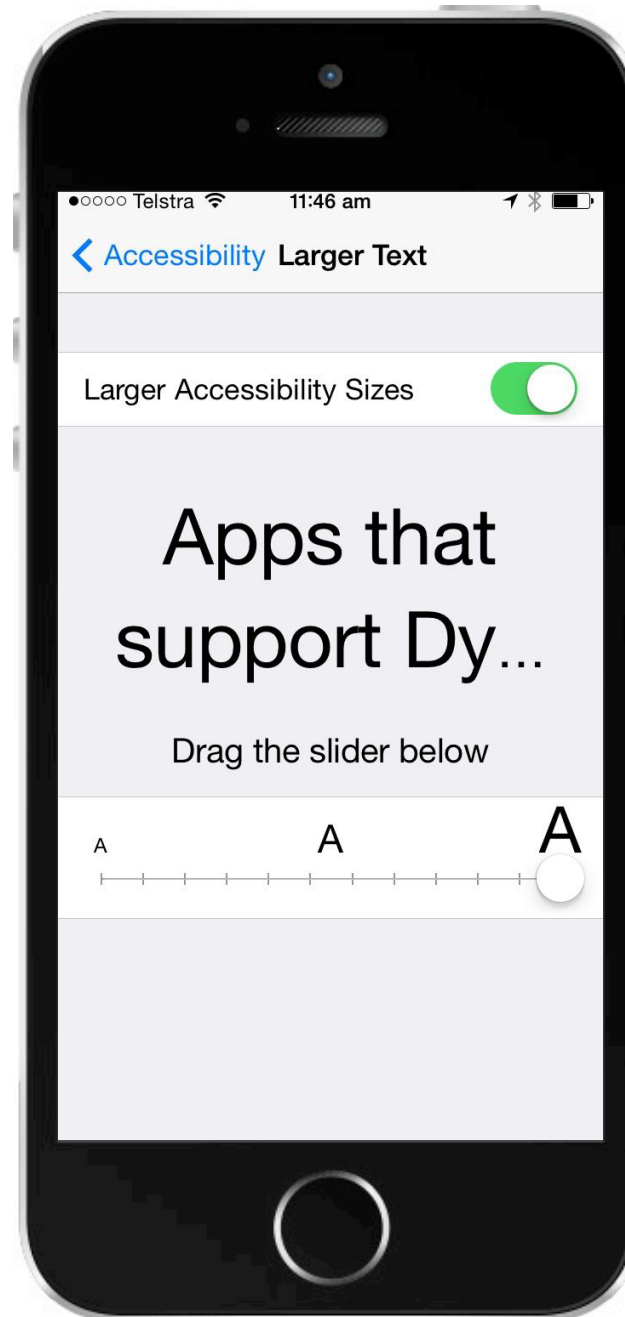
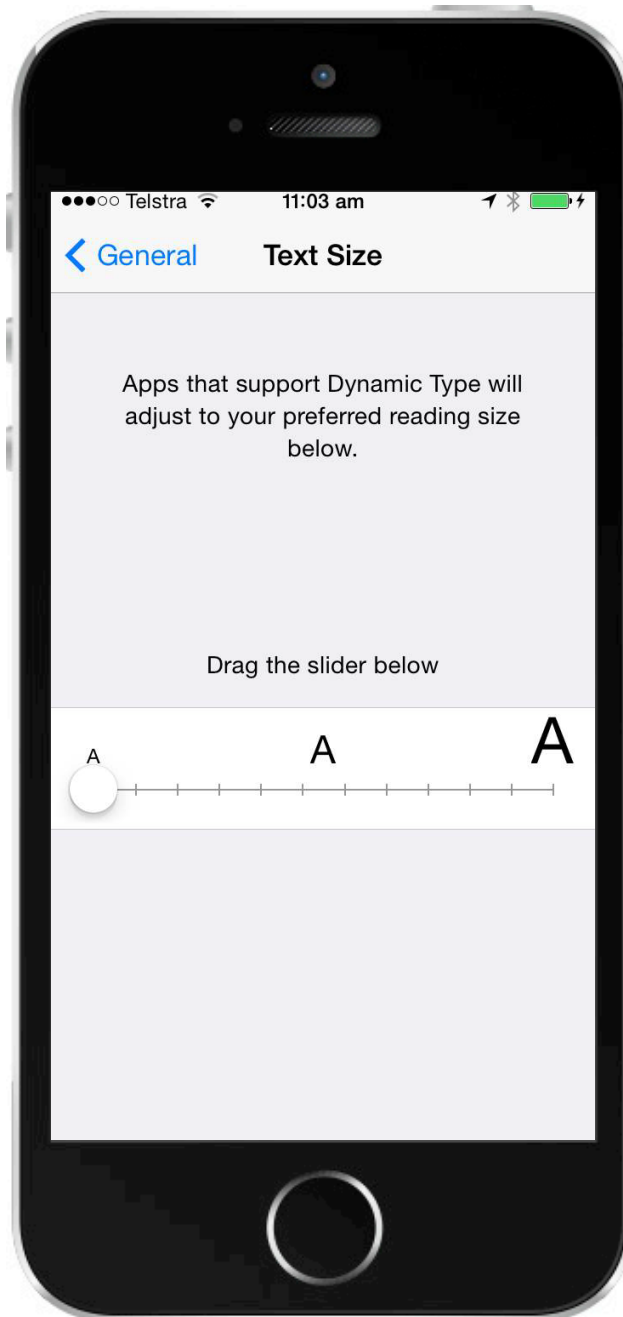
Text size settings not supported

System settings

#TestAllThe
Things



System settings



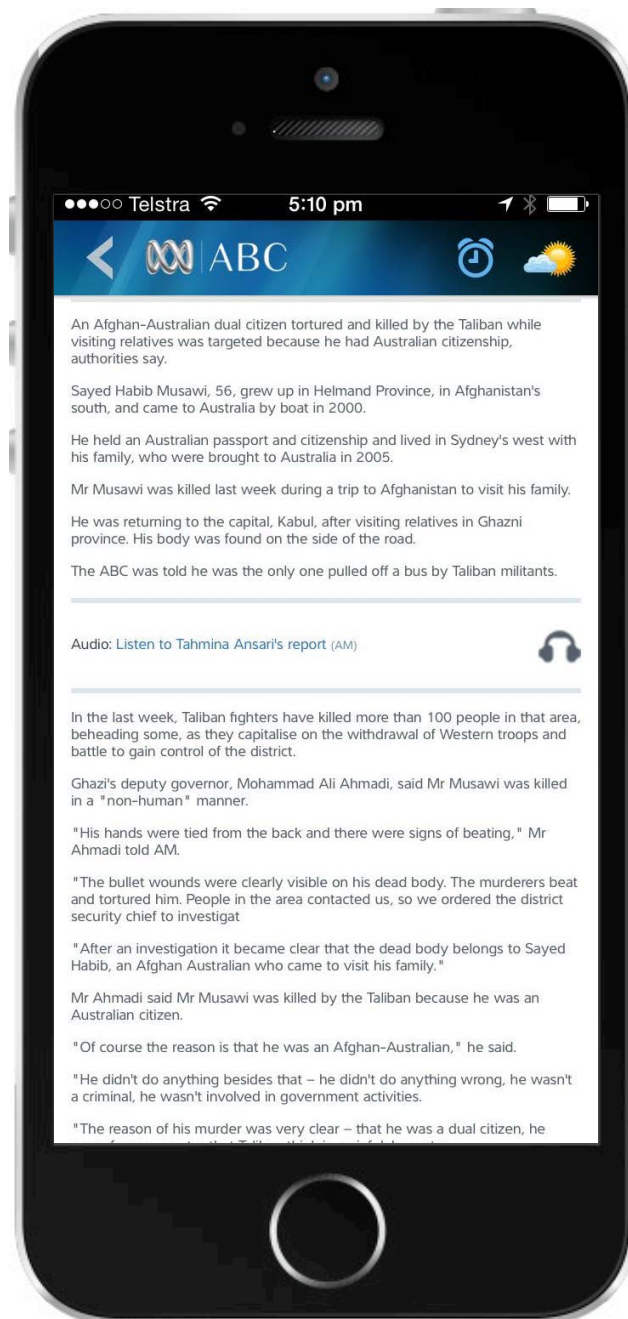
If Apple can't
get it right...



Mobile issues
Large text is not...
large.

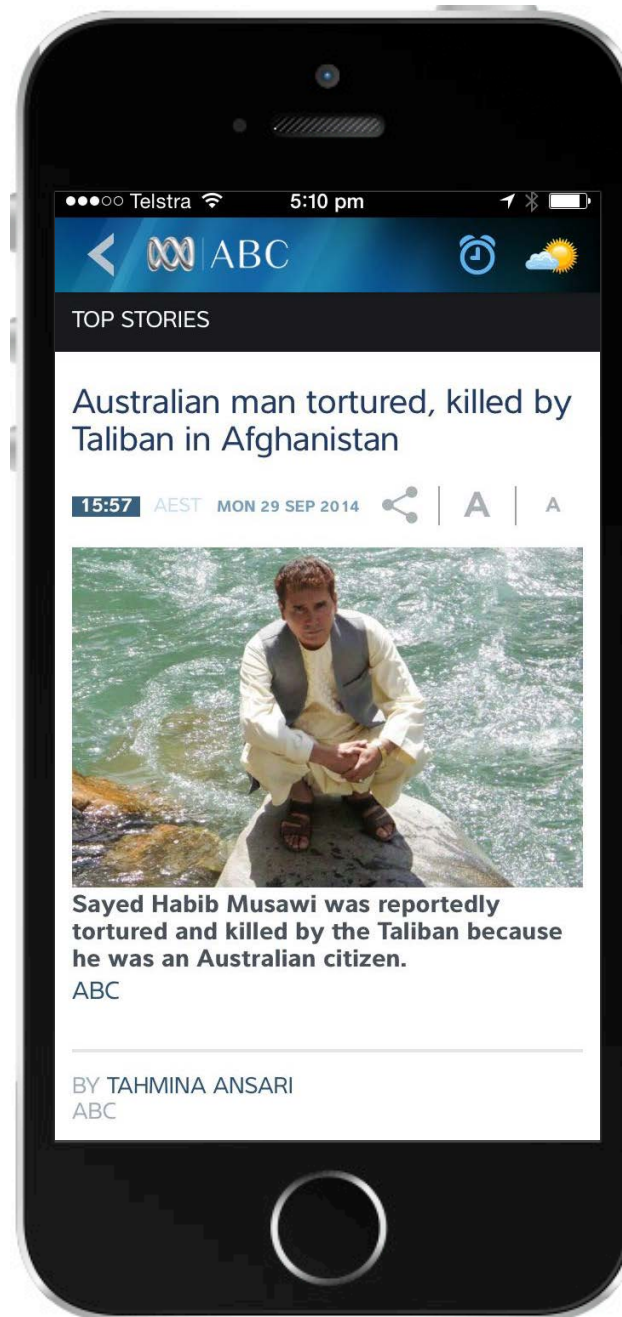
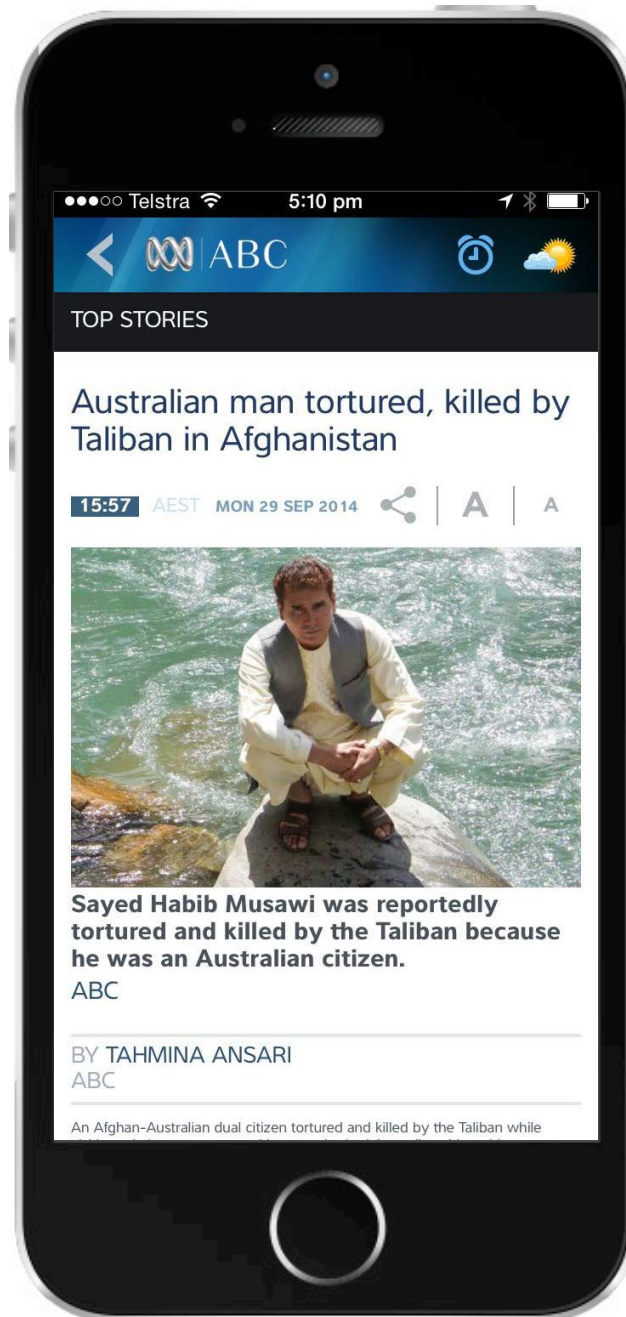
In-app settings

Do you call that large text?



In-app settings

Ummm...
where is the
large text?



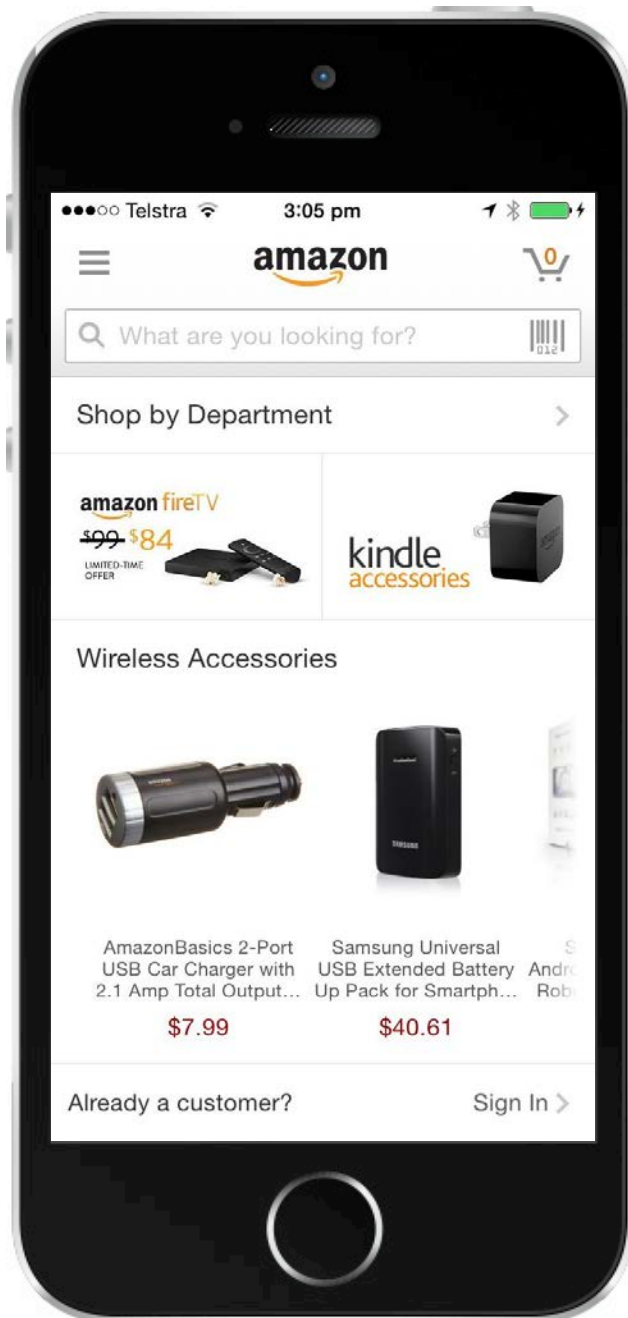


Mobile issues

Colour contrast

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Colour contrast

Grey text on a white background: #JustSayNo

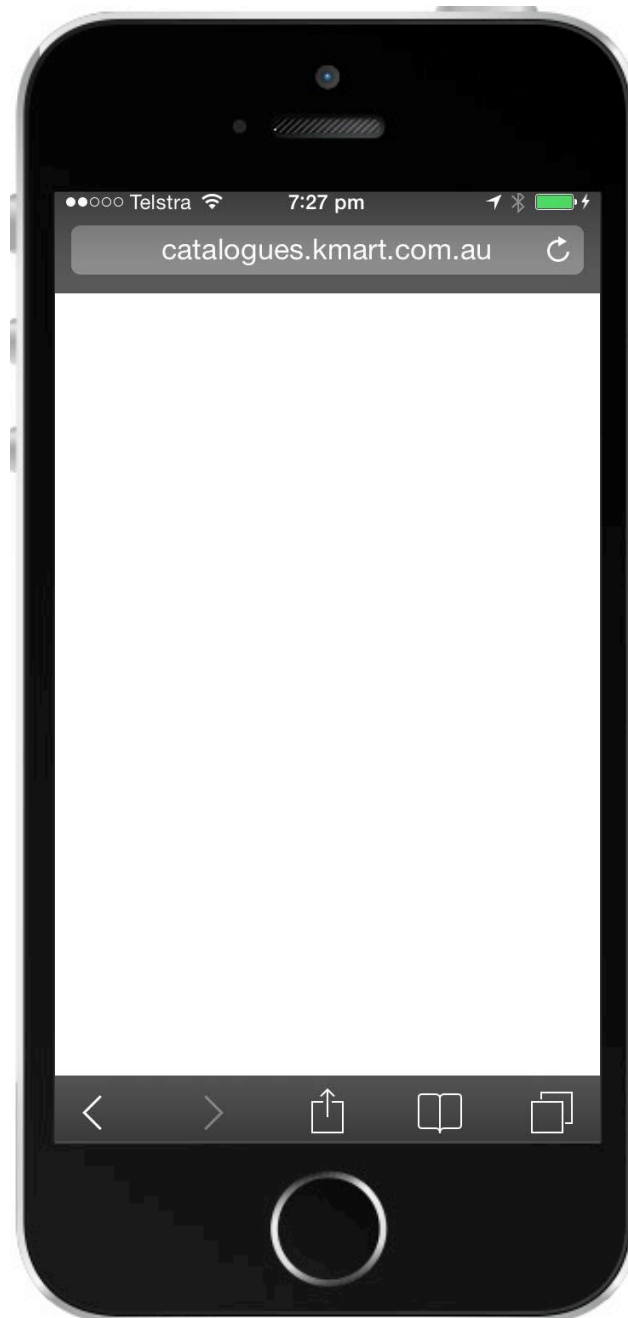
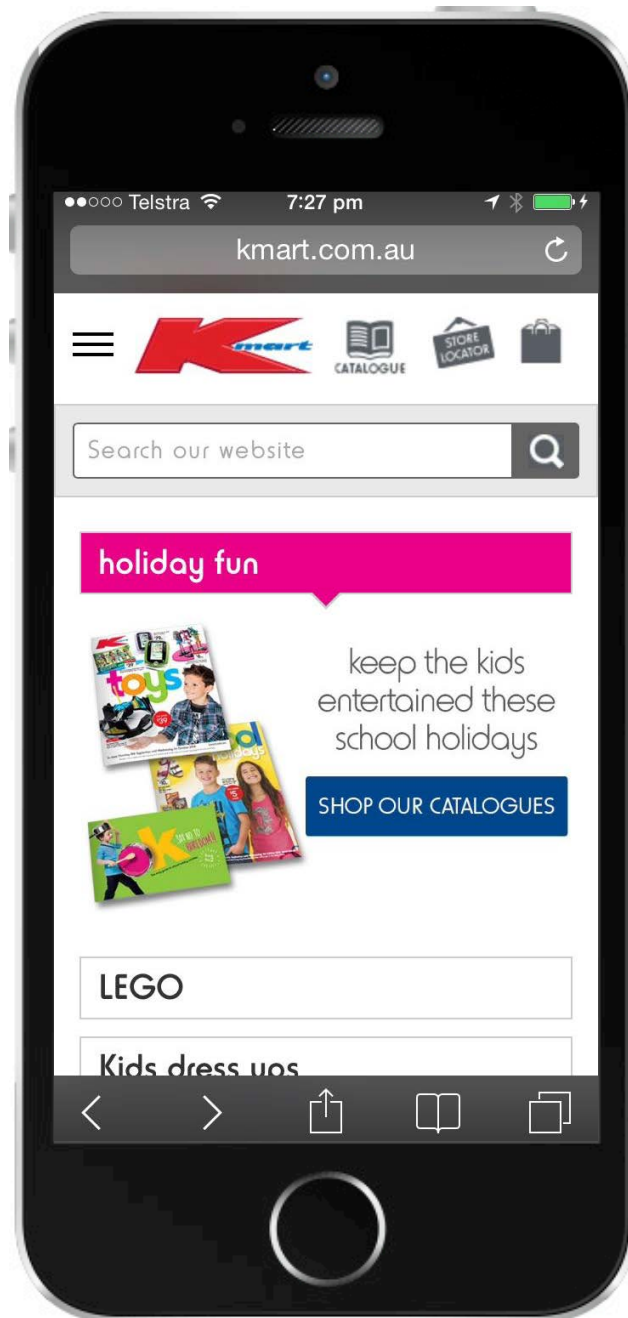


Mobile issues

Broken functionality

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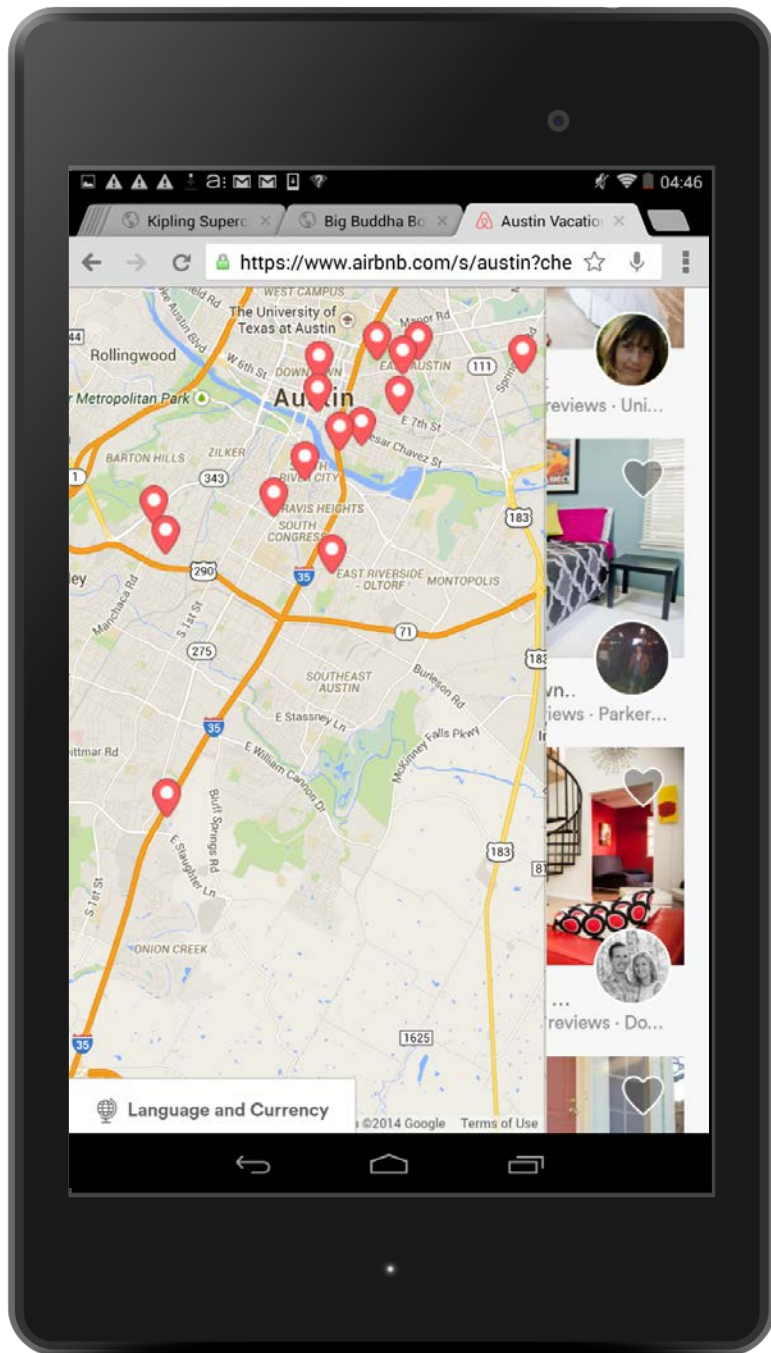


Functionality

It's good if it works...

Functionality

Zooming breaks the site

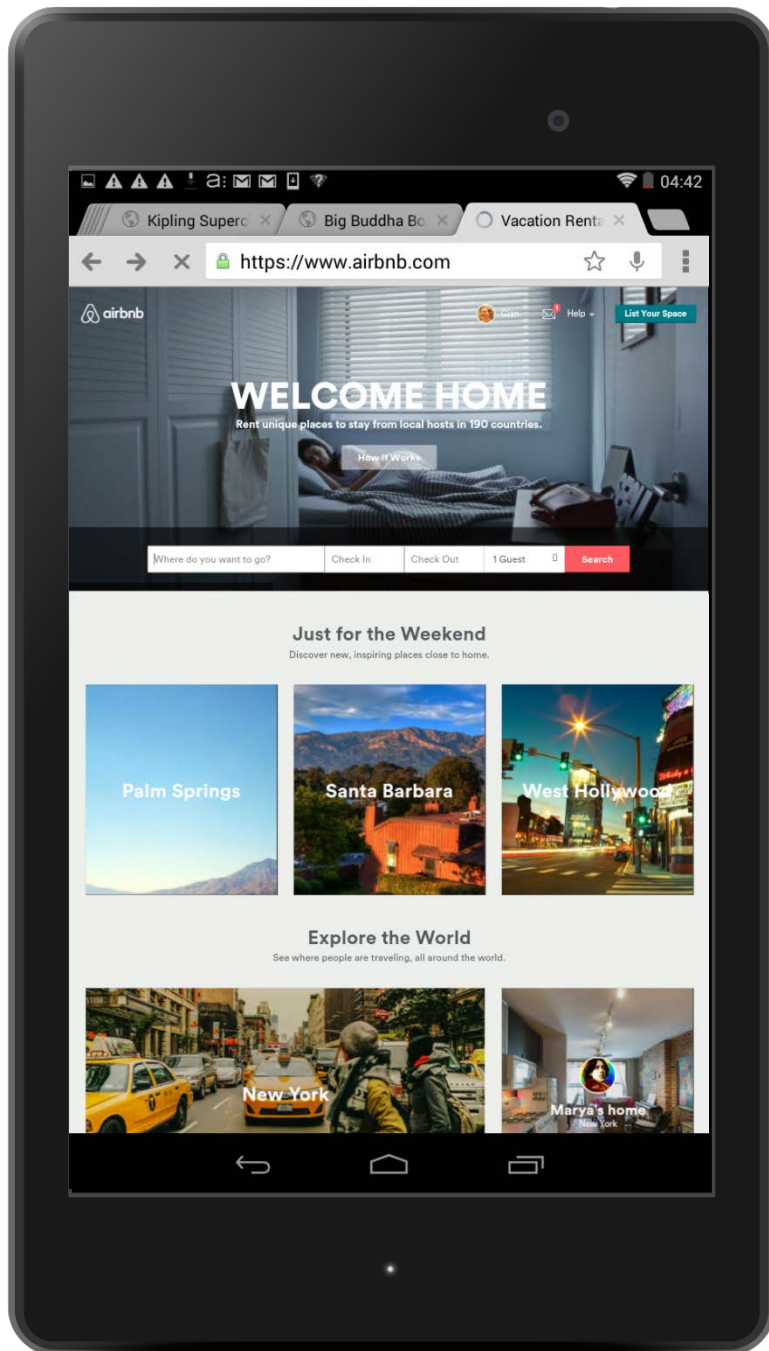




Fine. I'll just
use the
desktop
version
then...

Desktop / mobile

WTF?!?



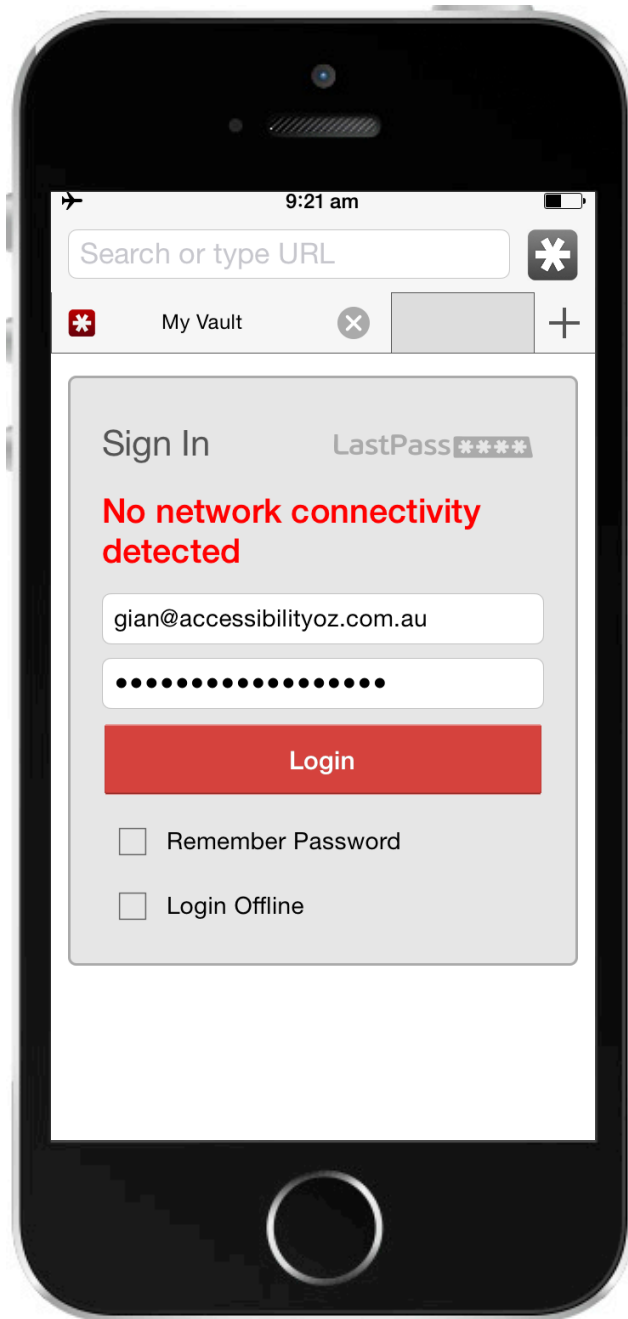


Mobile issues

Source order

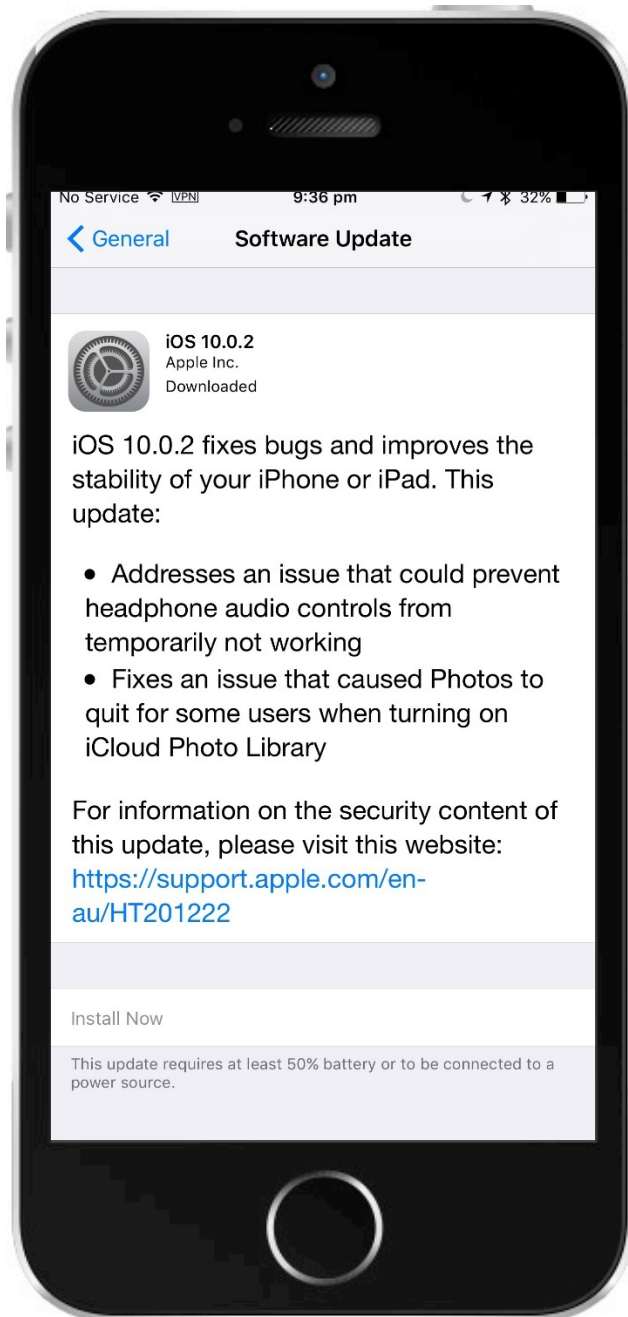
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AccessibilityOz

Source order

Important information should never be after a Submit button



Source order

Even Apple can't get it right...

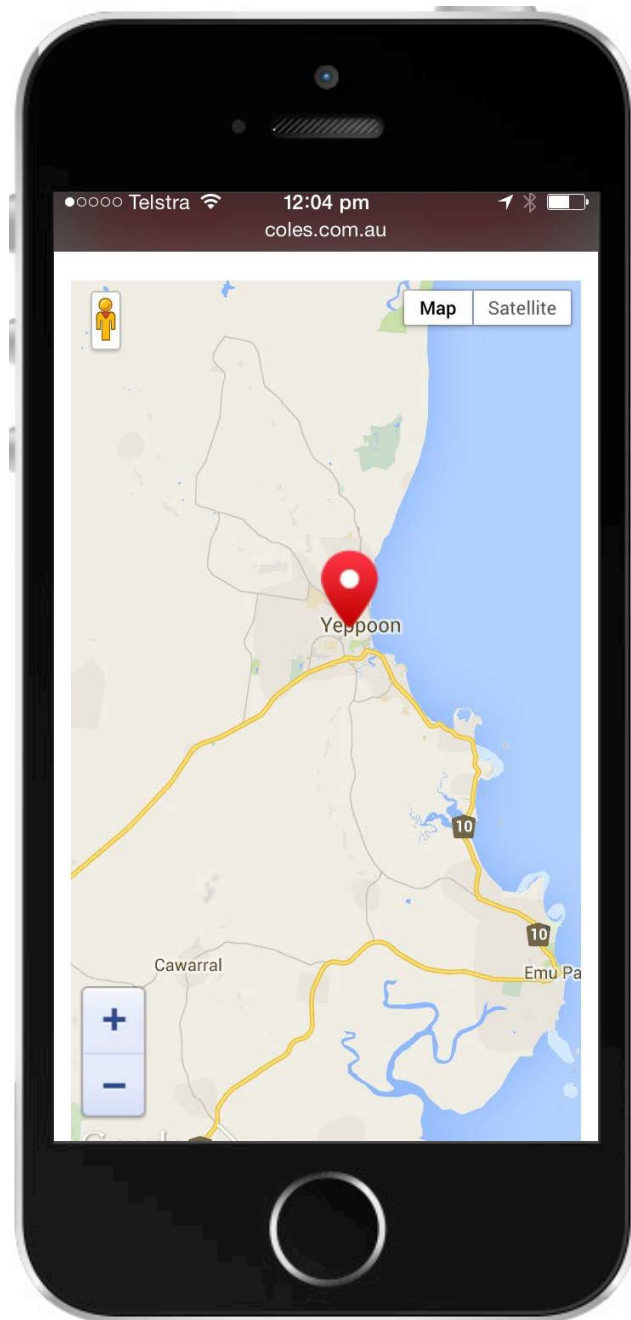


Mobile issues

Touch targets

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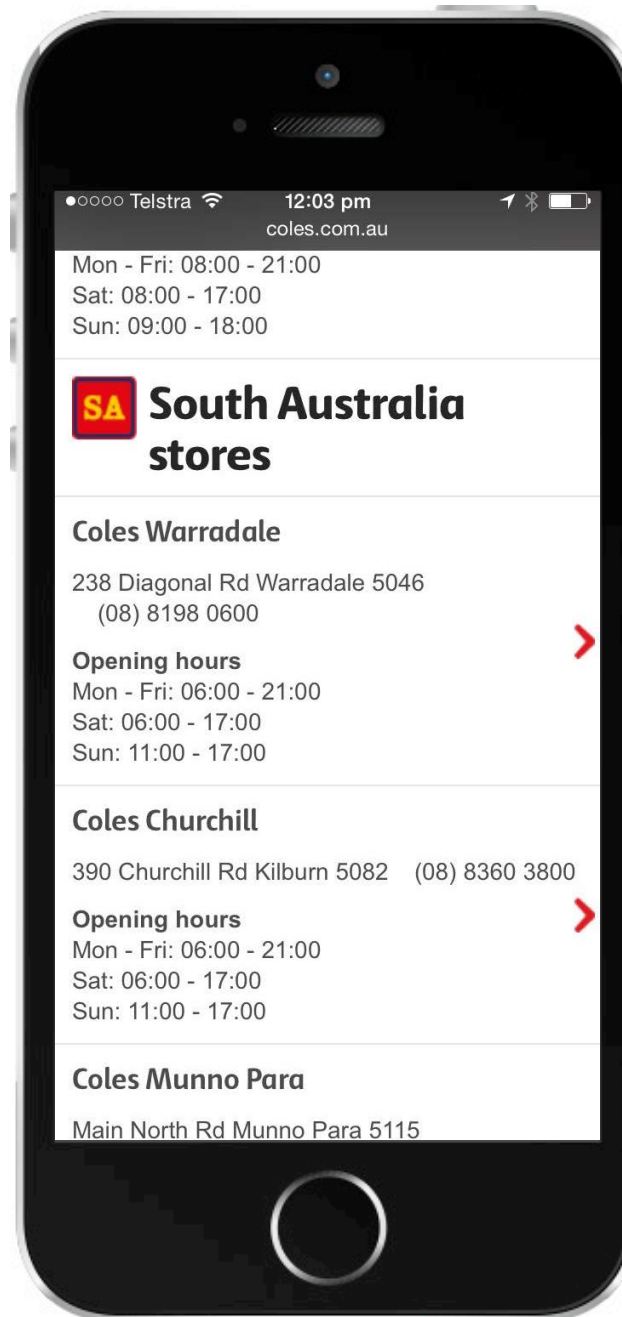
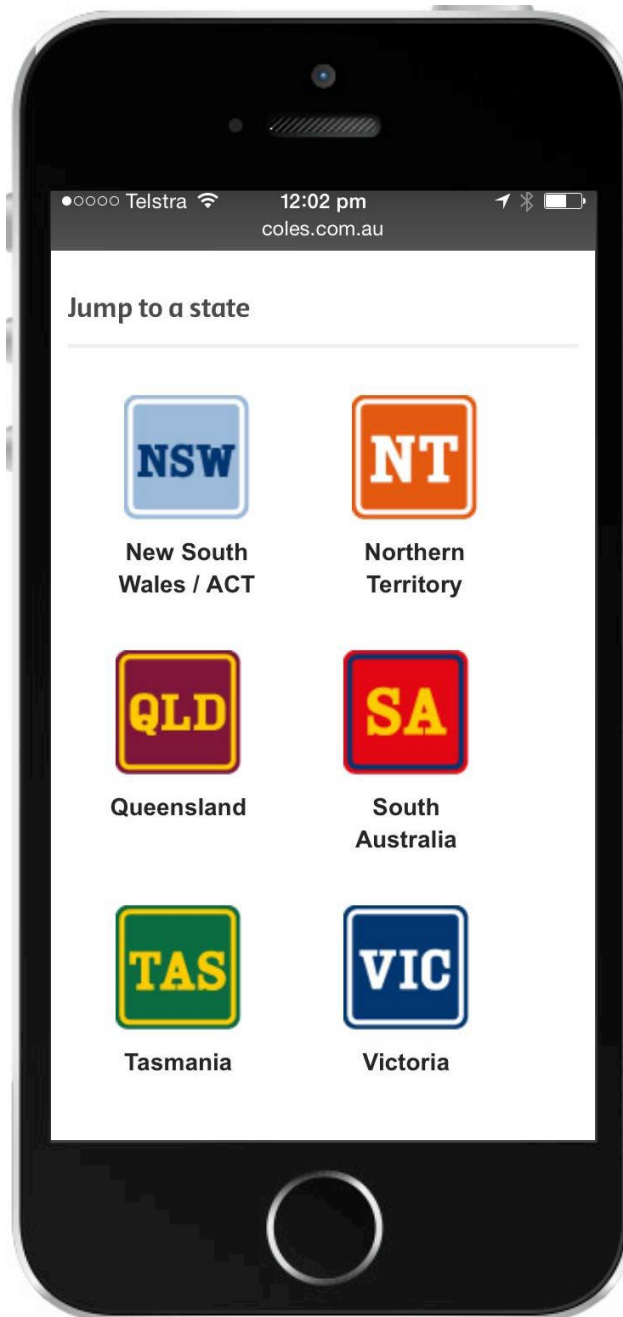




Touch targets & maps

Avoid the zoom of doom

Touch targets



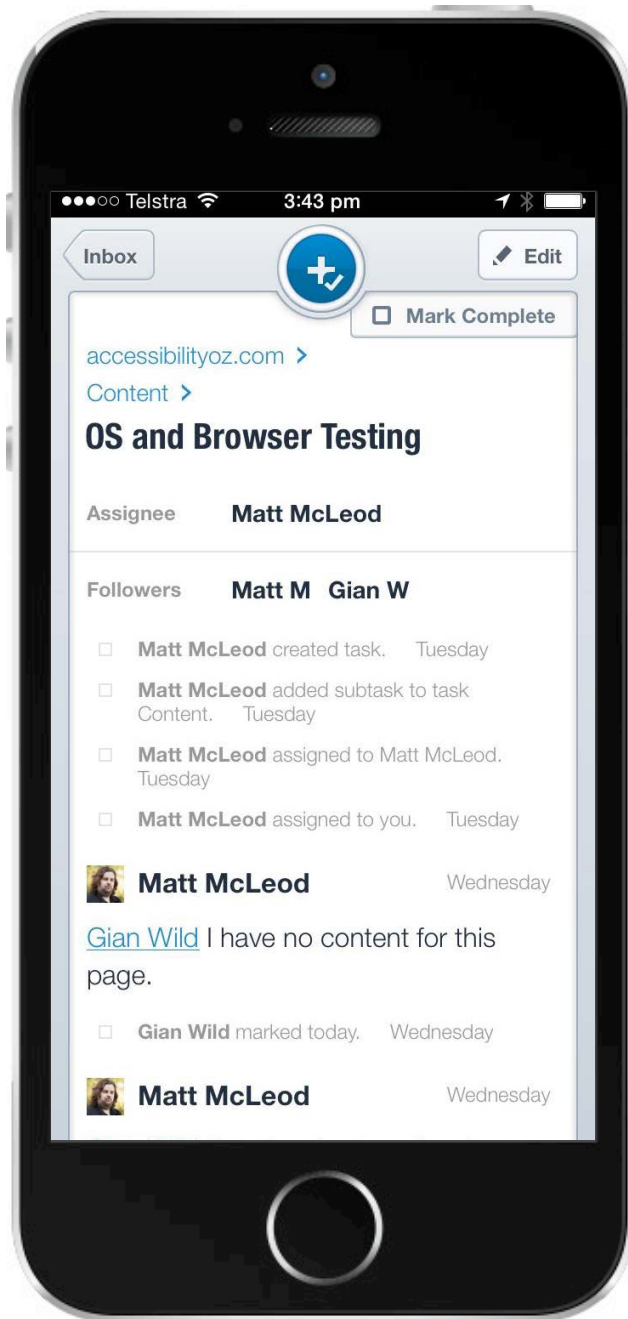
Oops!



Mobile issues

Spacing

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Spacing

Be careful what you select...

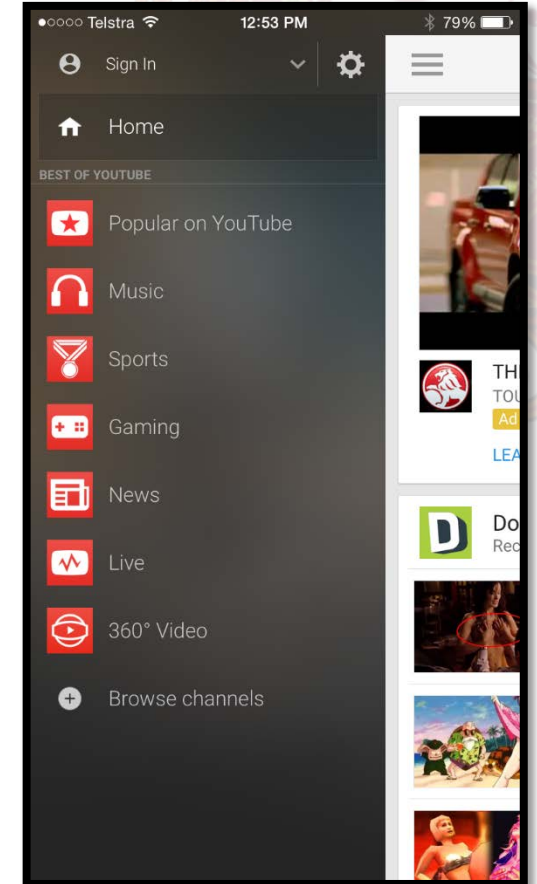
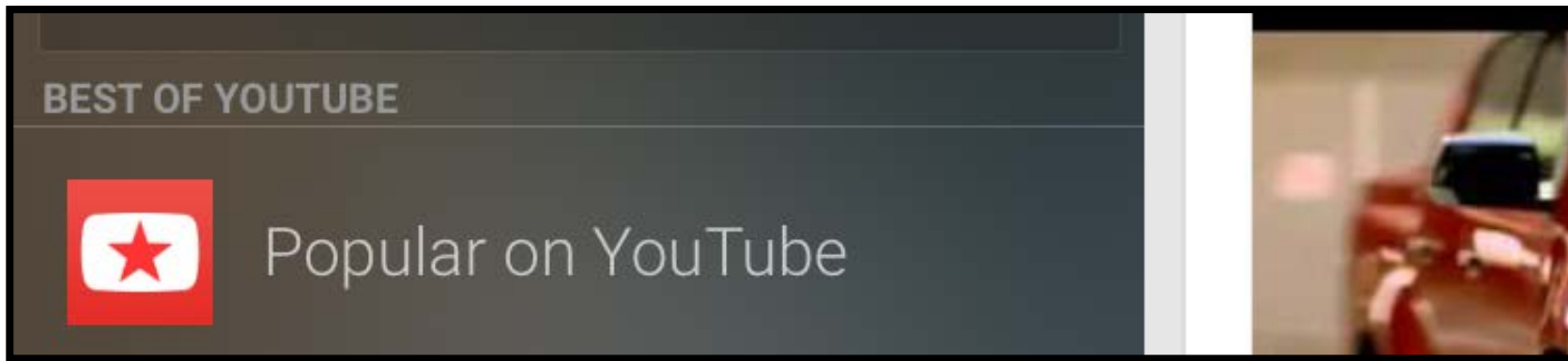


Mobile issues

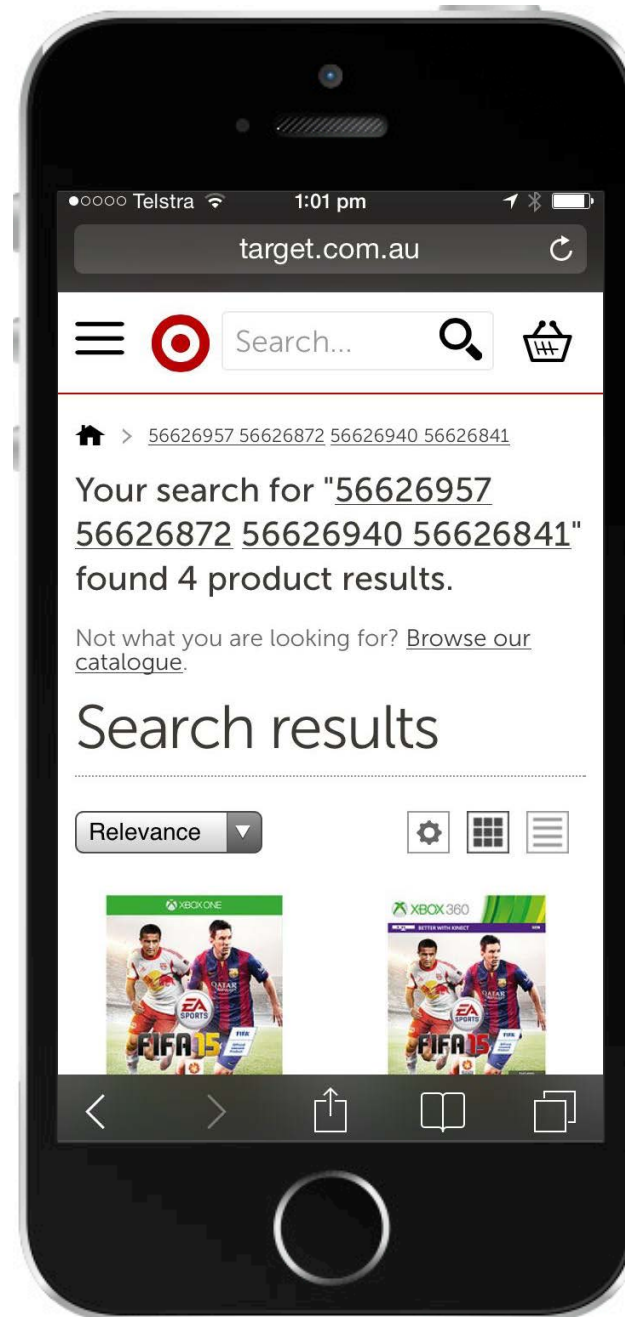
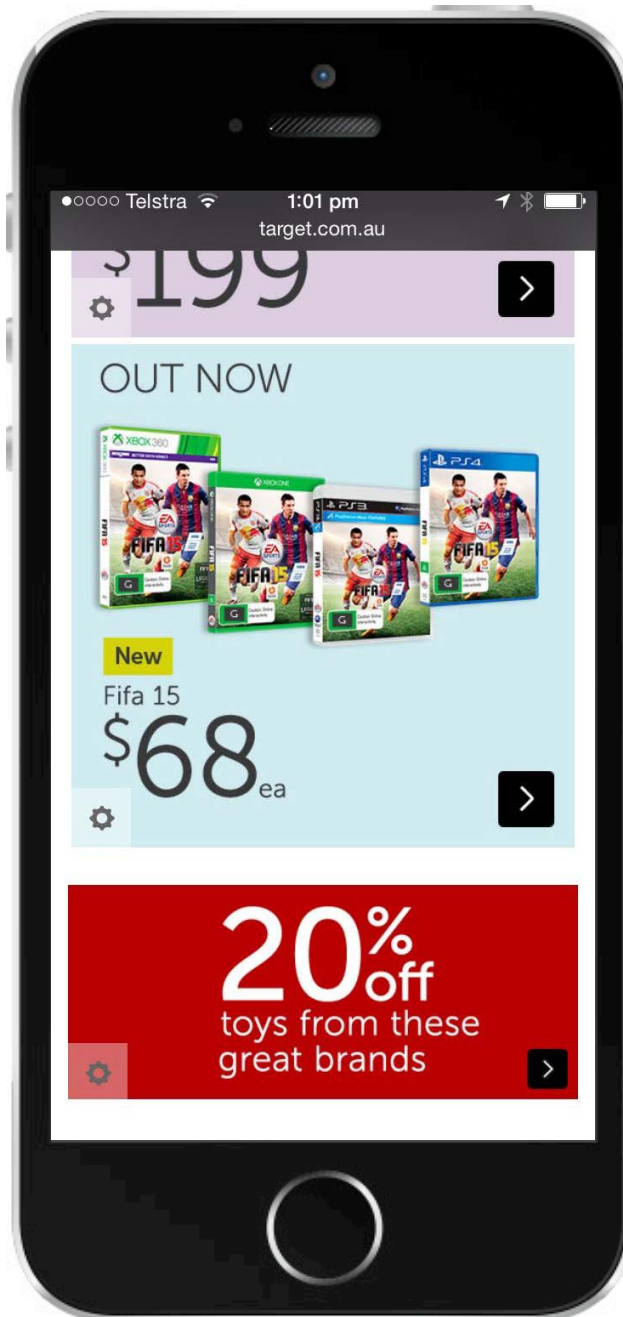
Lack of testing

VoiceOver

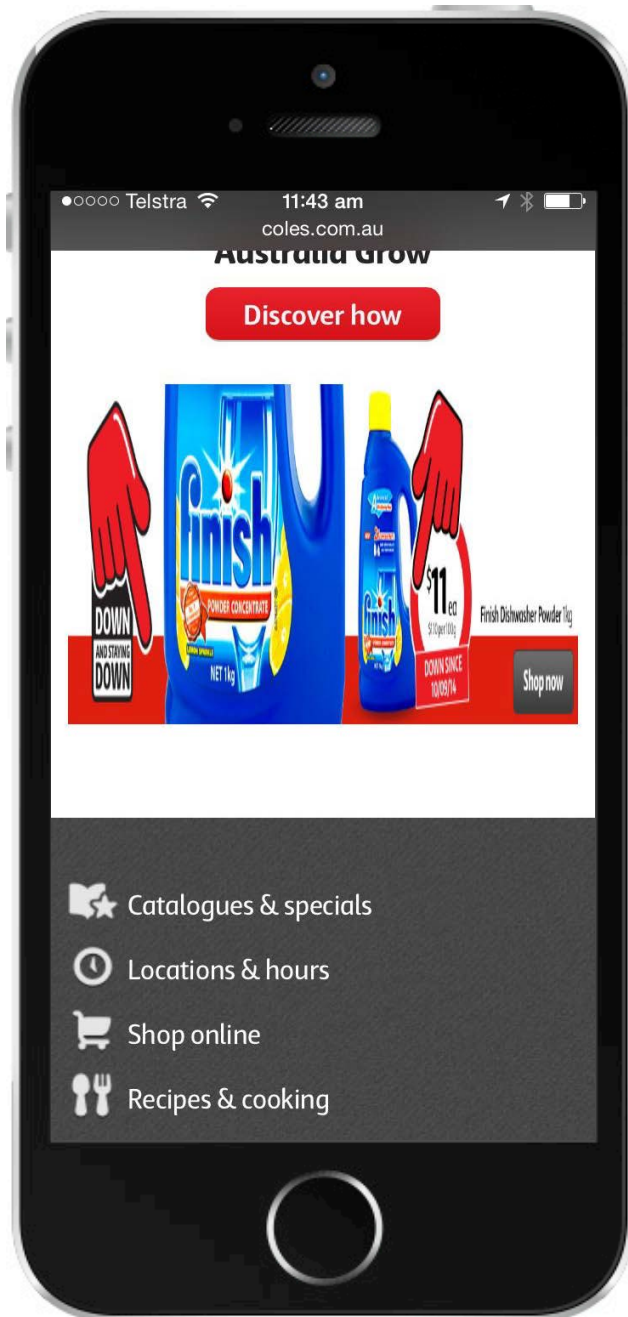
‘BEST OF YOUTUBE’ read as ‘best of YaToob’



Search

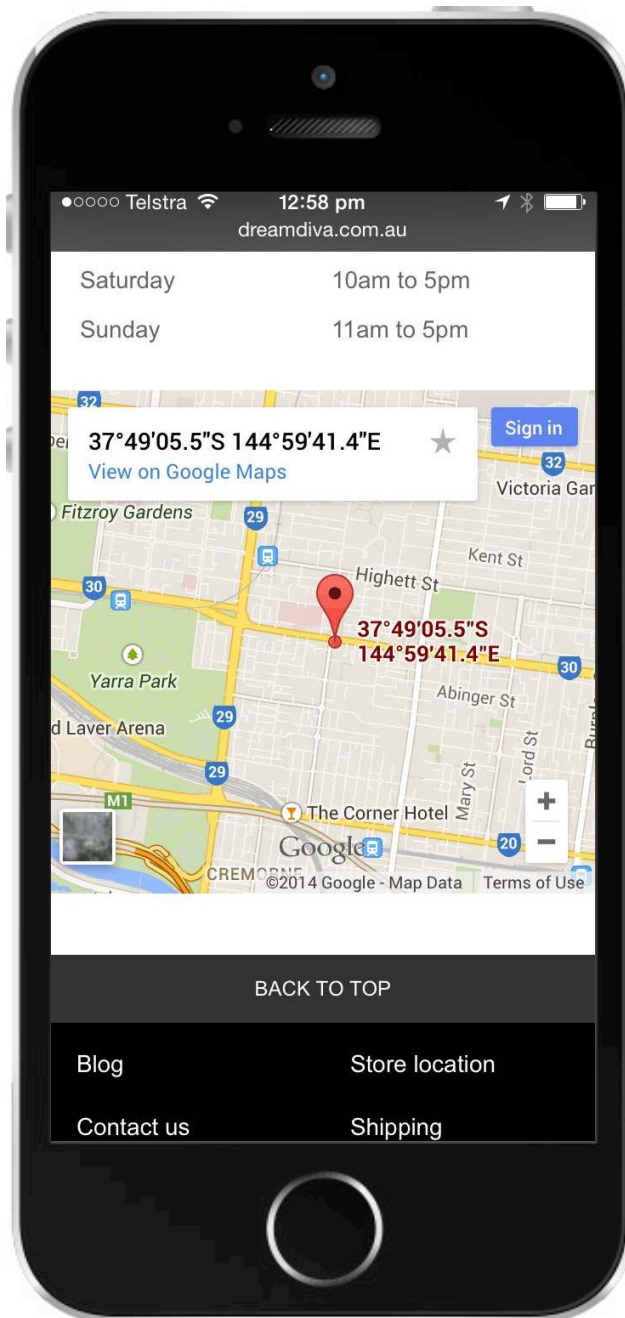


Ummmm....
No I didn't



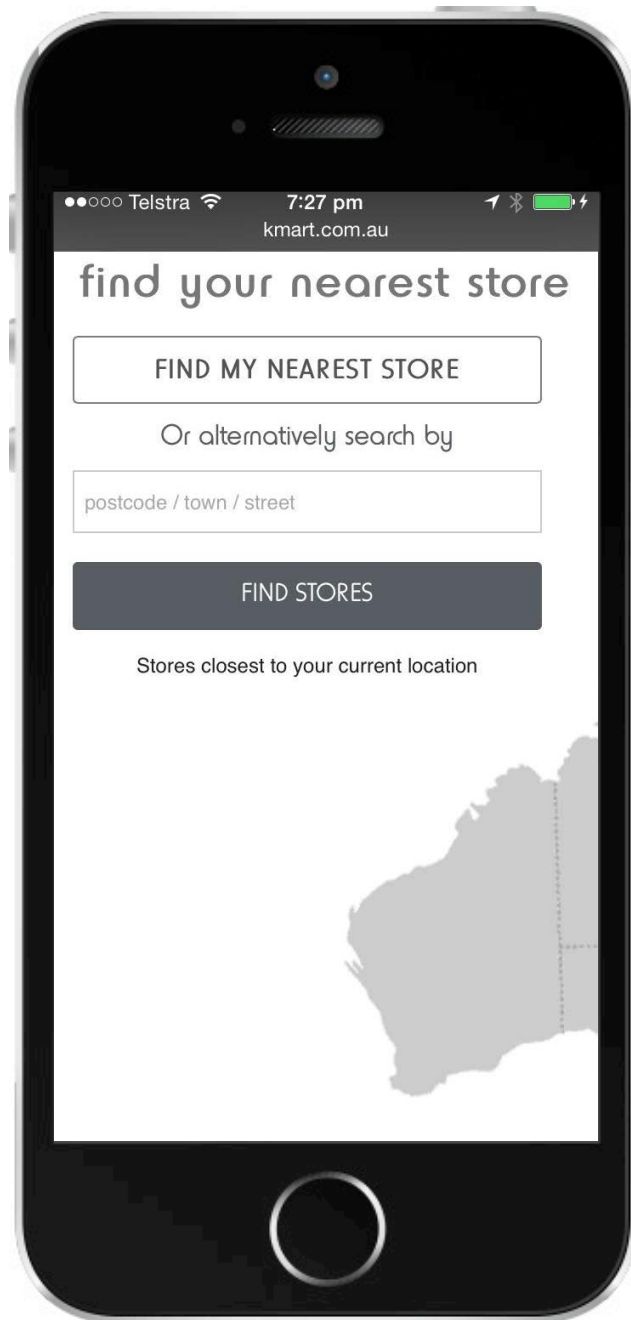
Images

Appropriate sizing



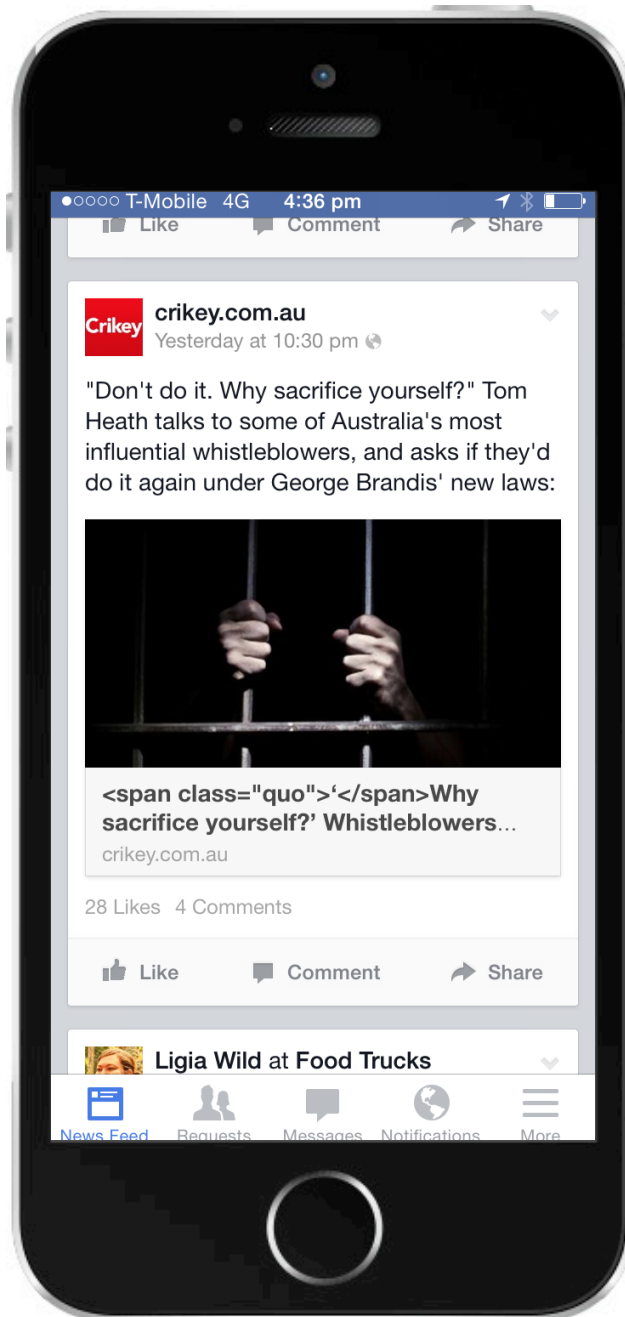
Maps

Where is it exactly?



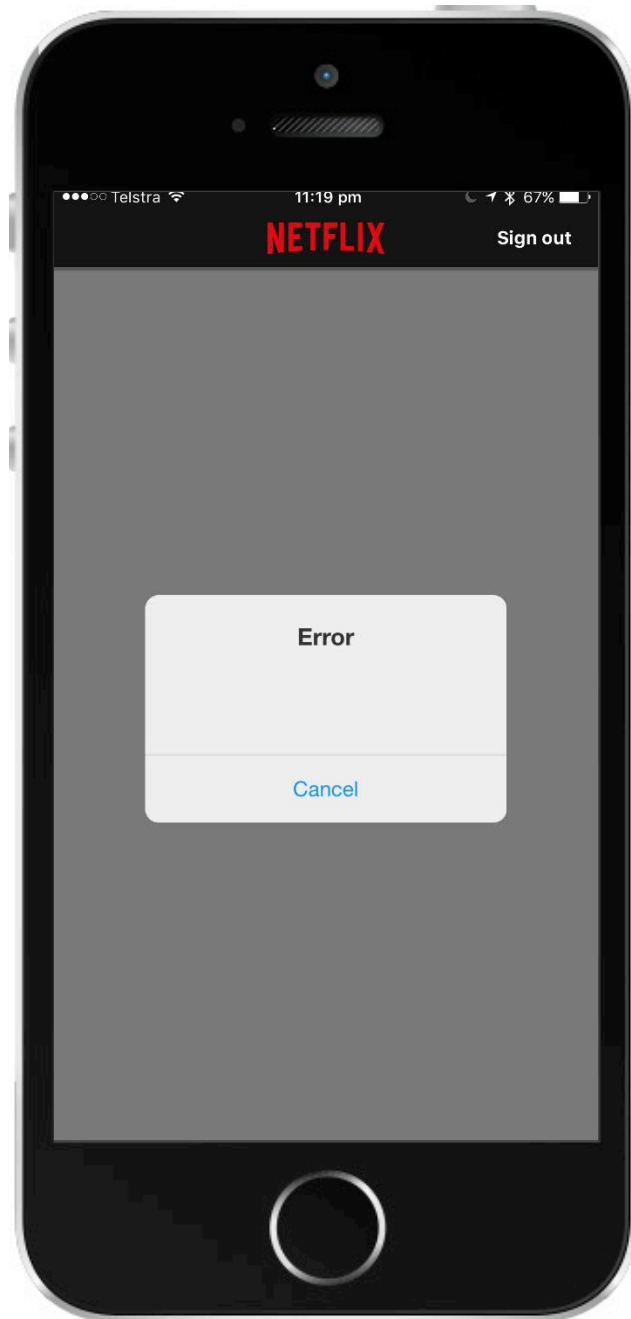
Scrolling

At least you can scroll...



Testing

#TestAllTheThings



Testing

#TestAllTheThings



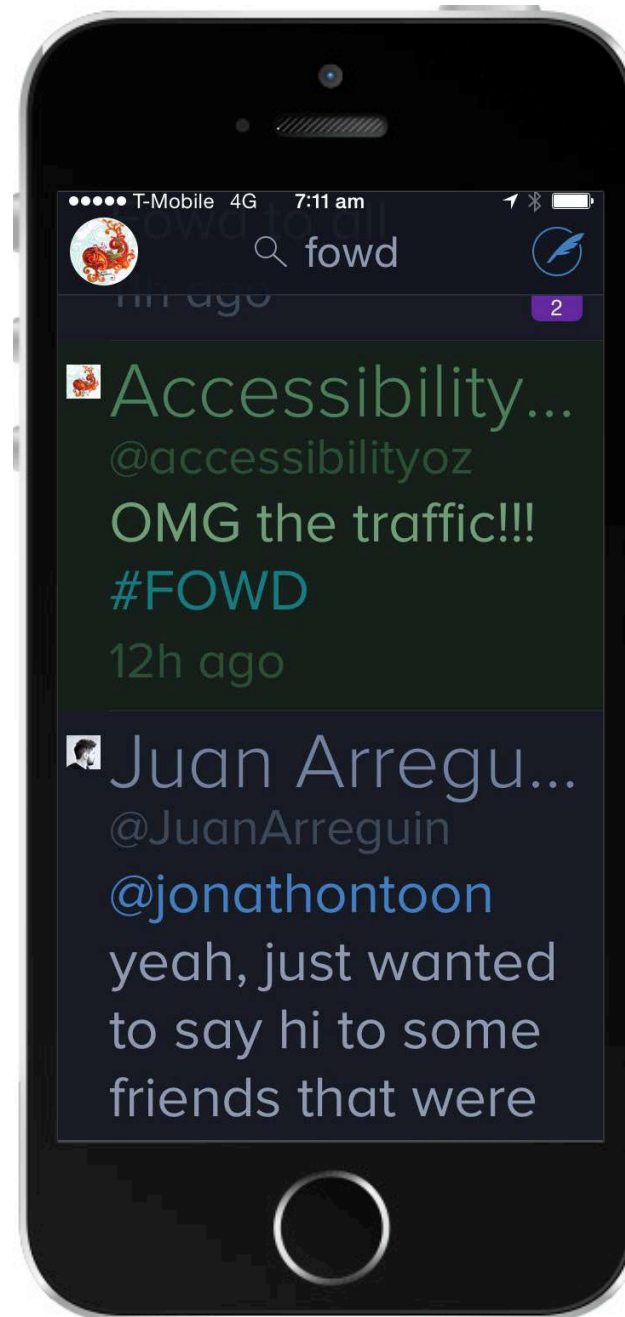
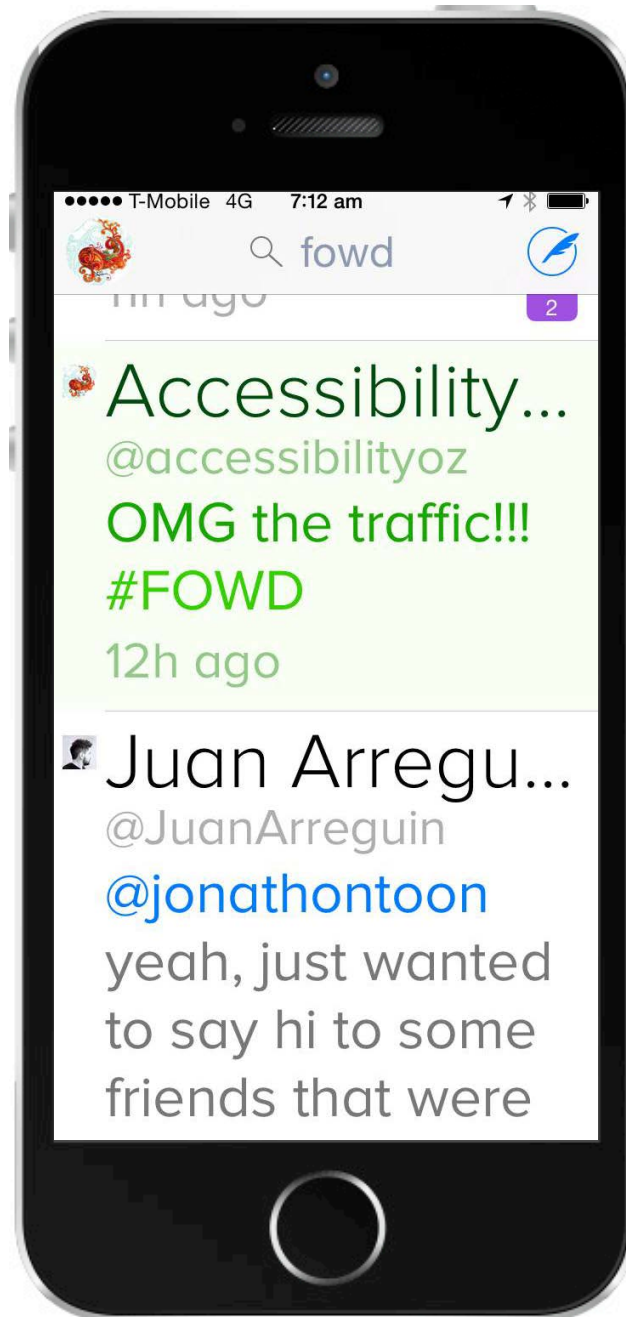
Correct implementations

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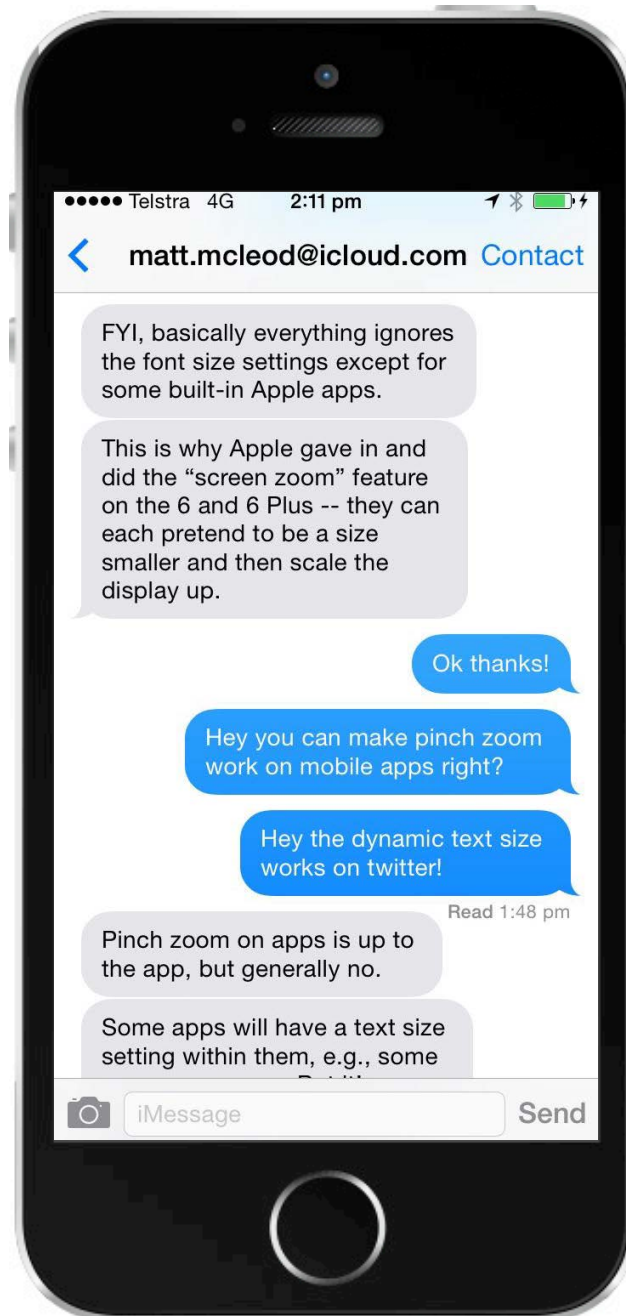
Text size

Size and colour support!



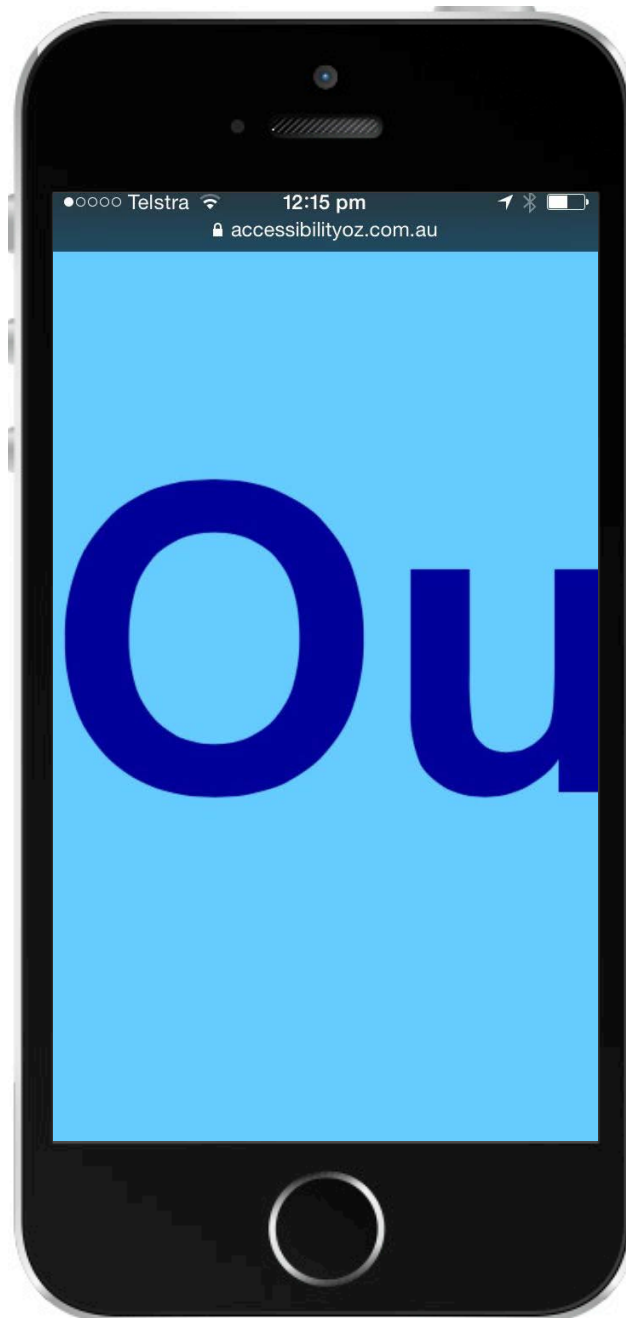
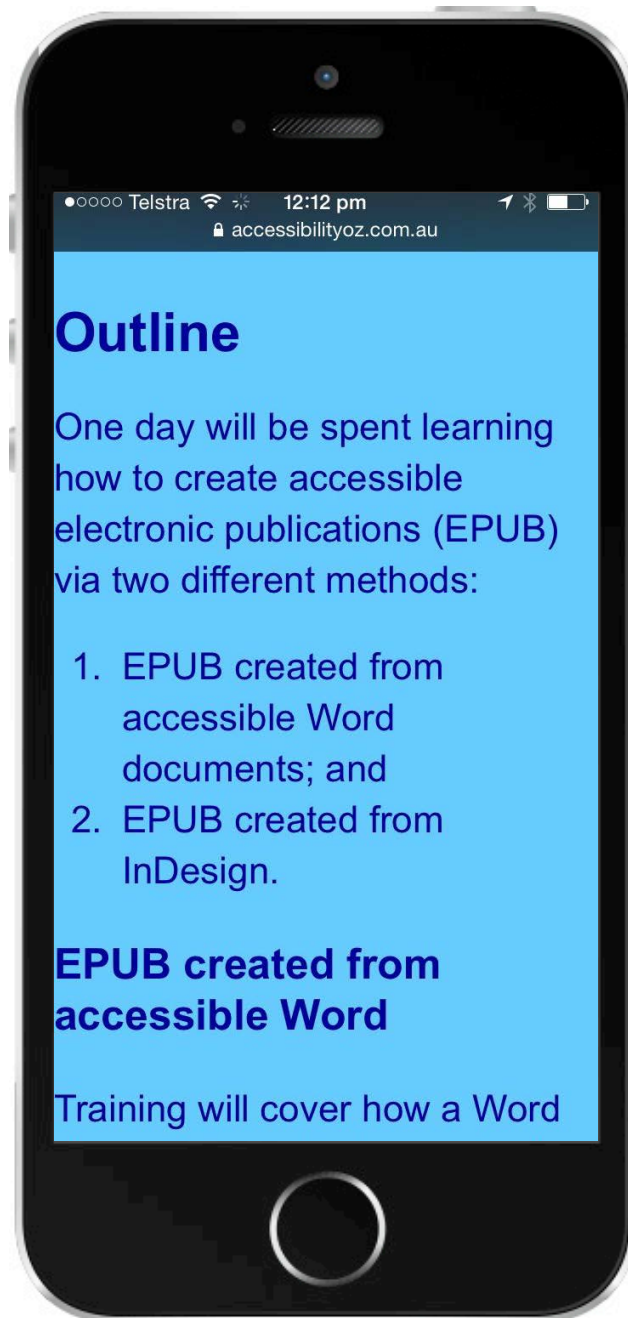
Text size

That's large text!



Text size

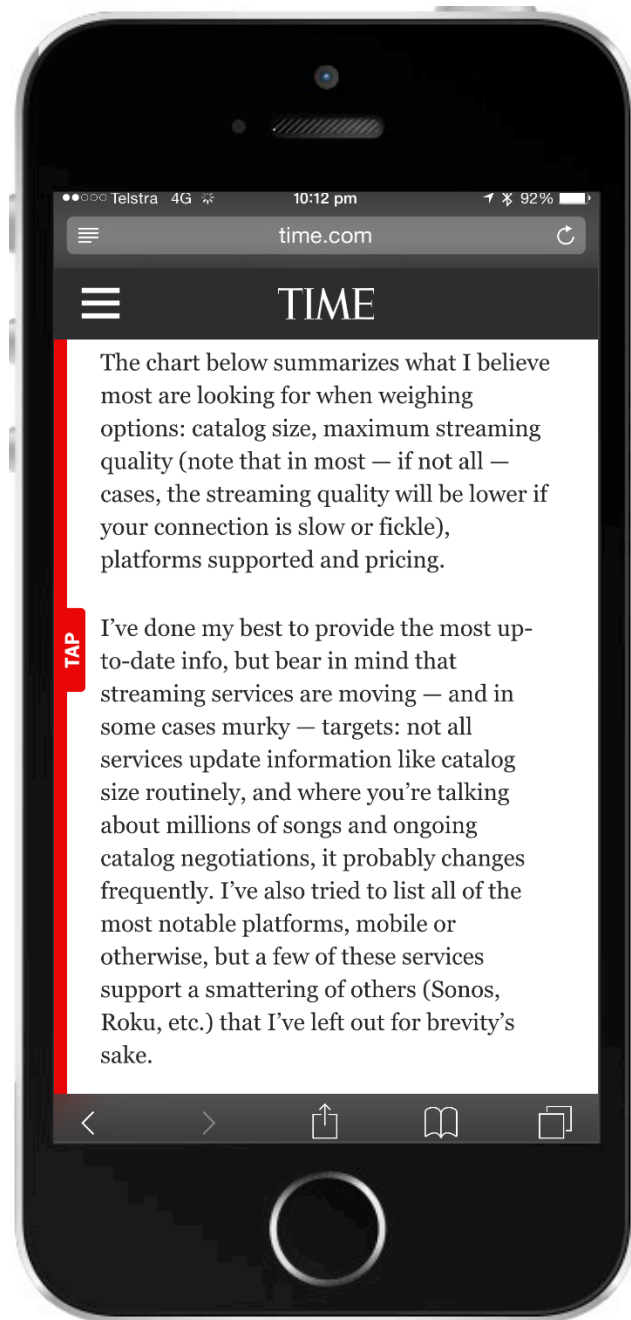
That's really large text!



Functional zoom

That works!



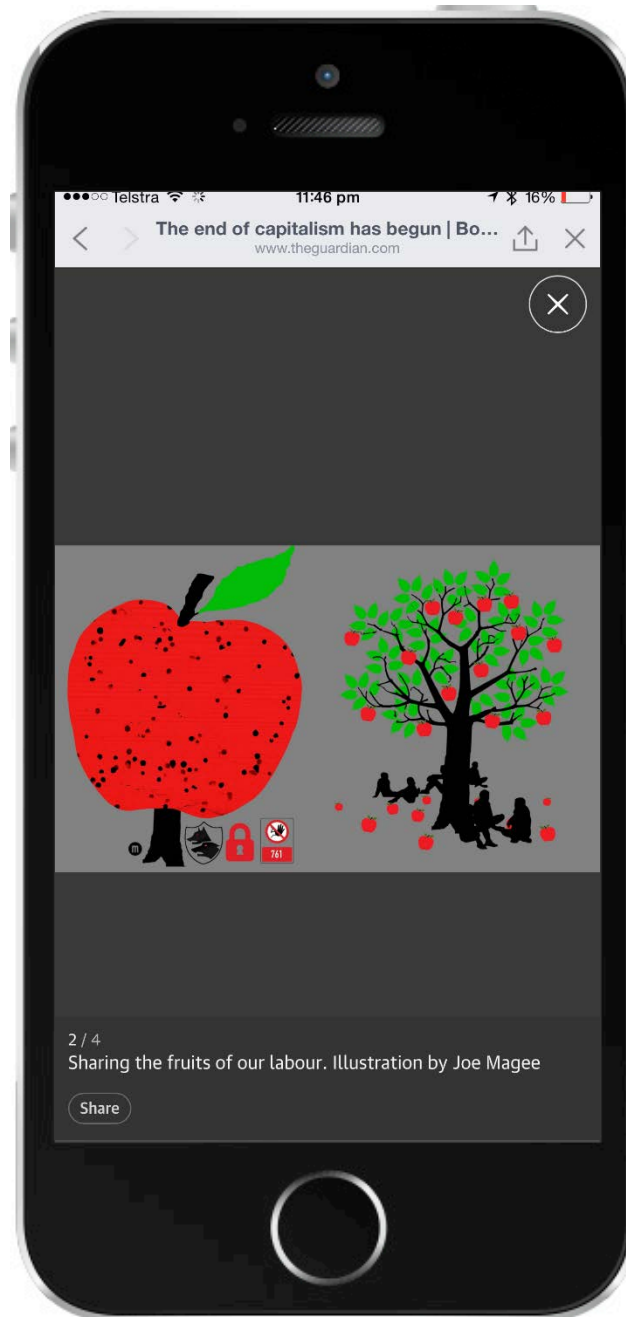
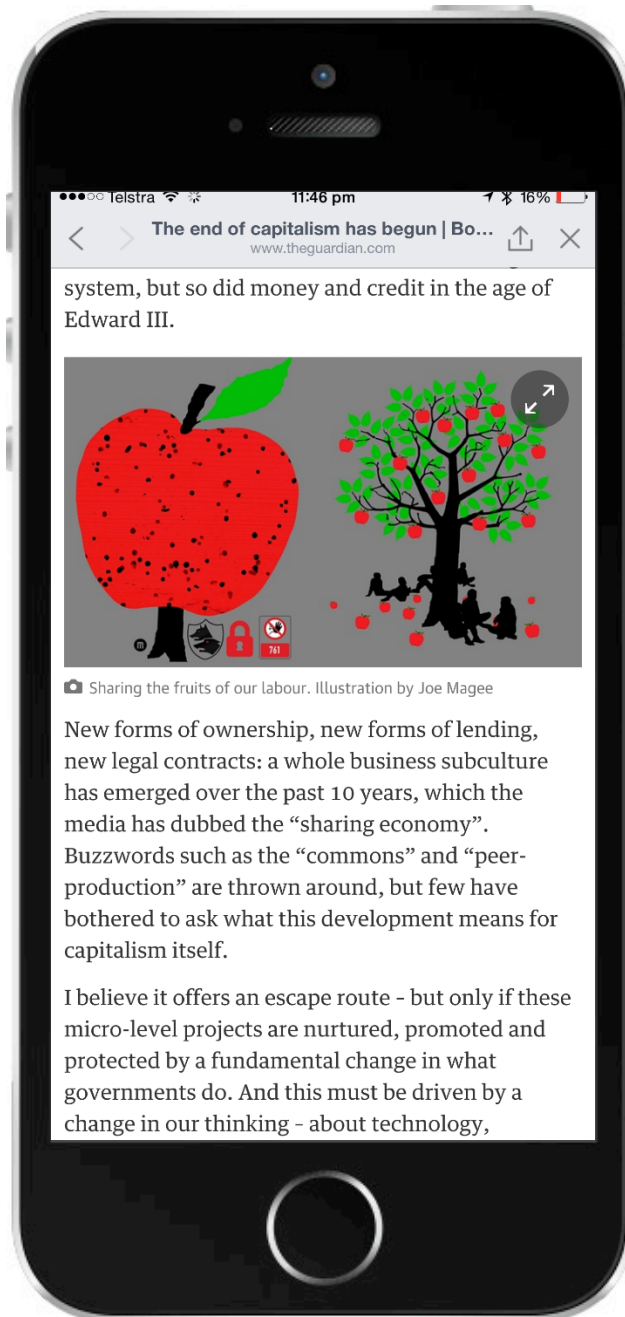


Indicating functionality

But wait... there's more!

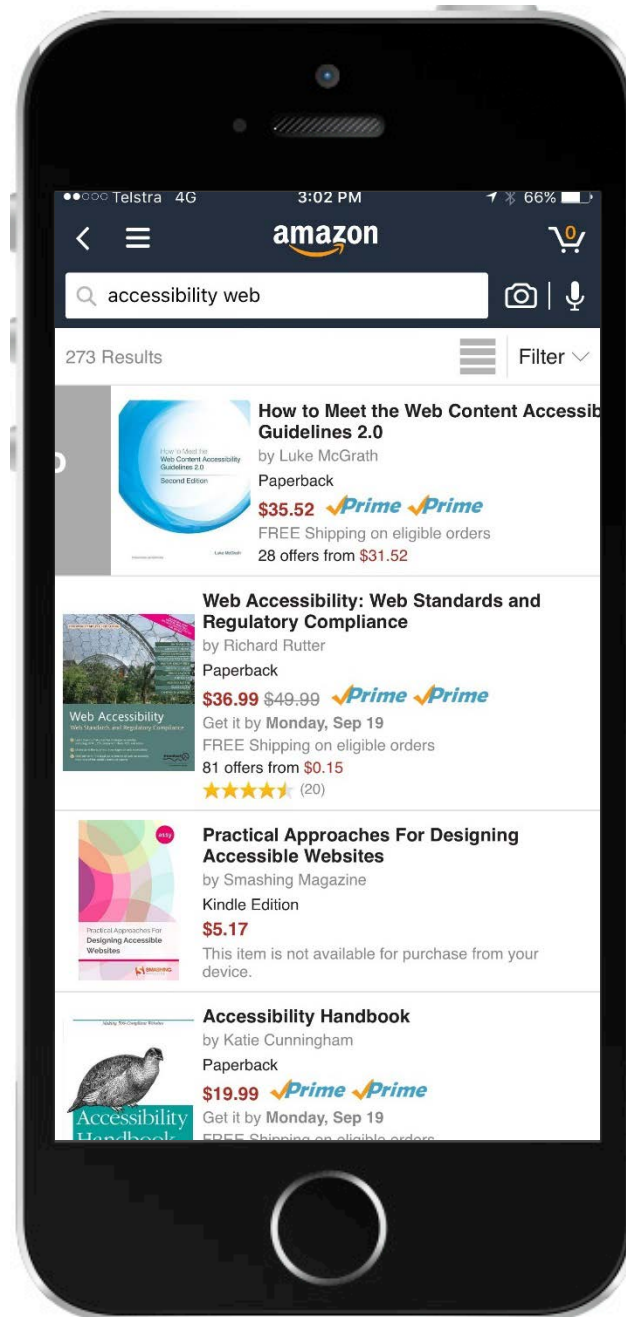
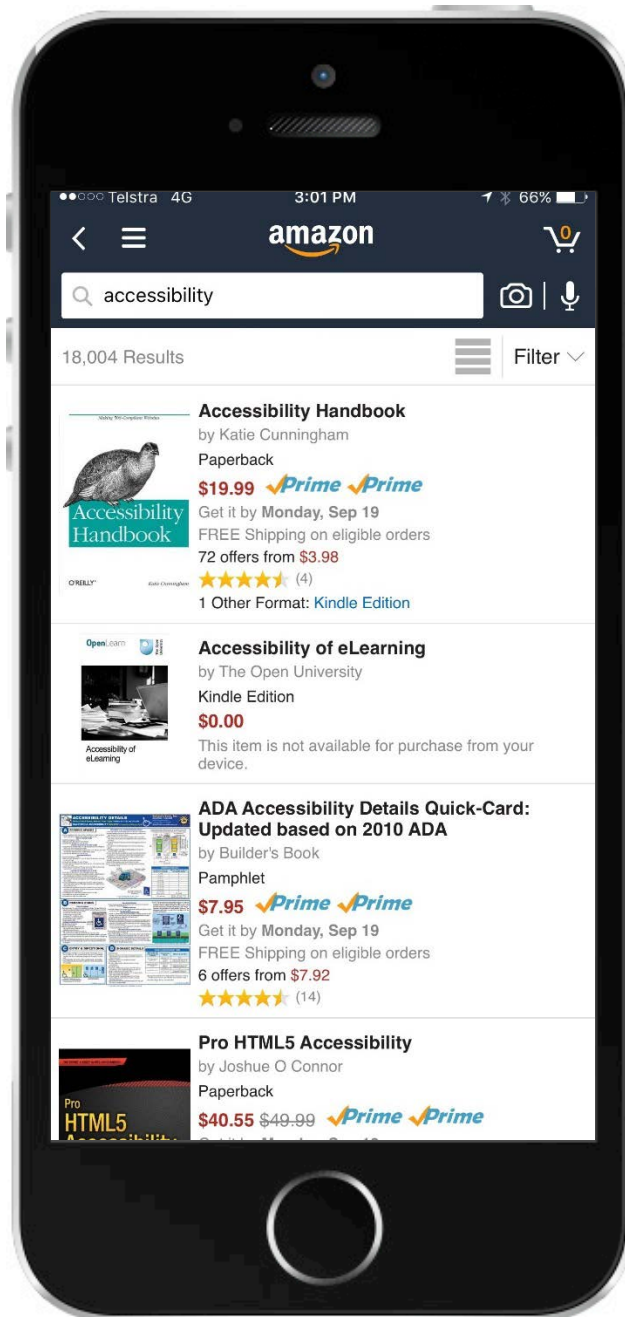
Indication

But wait...
there's more!

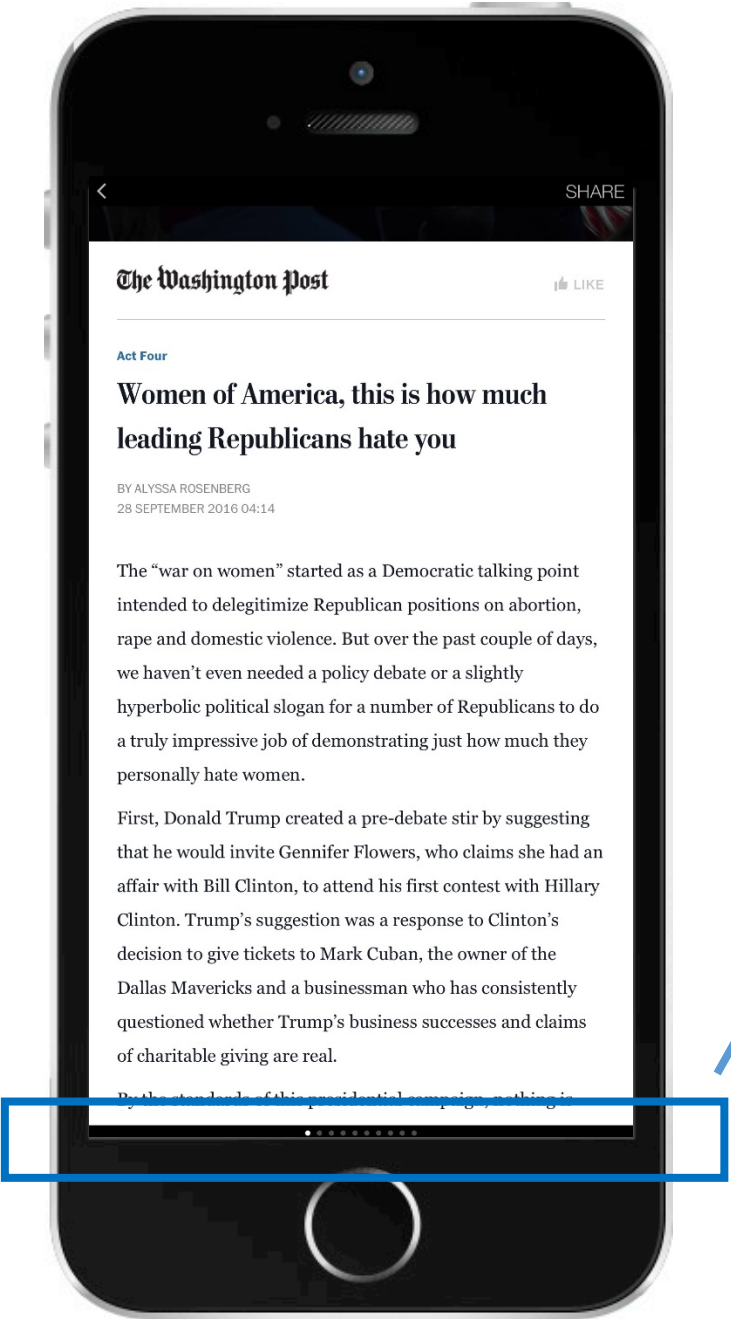


Indication

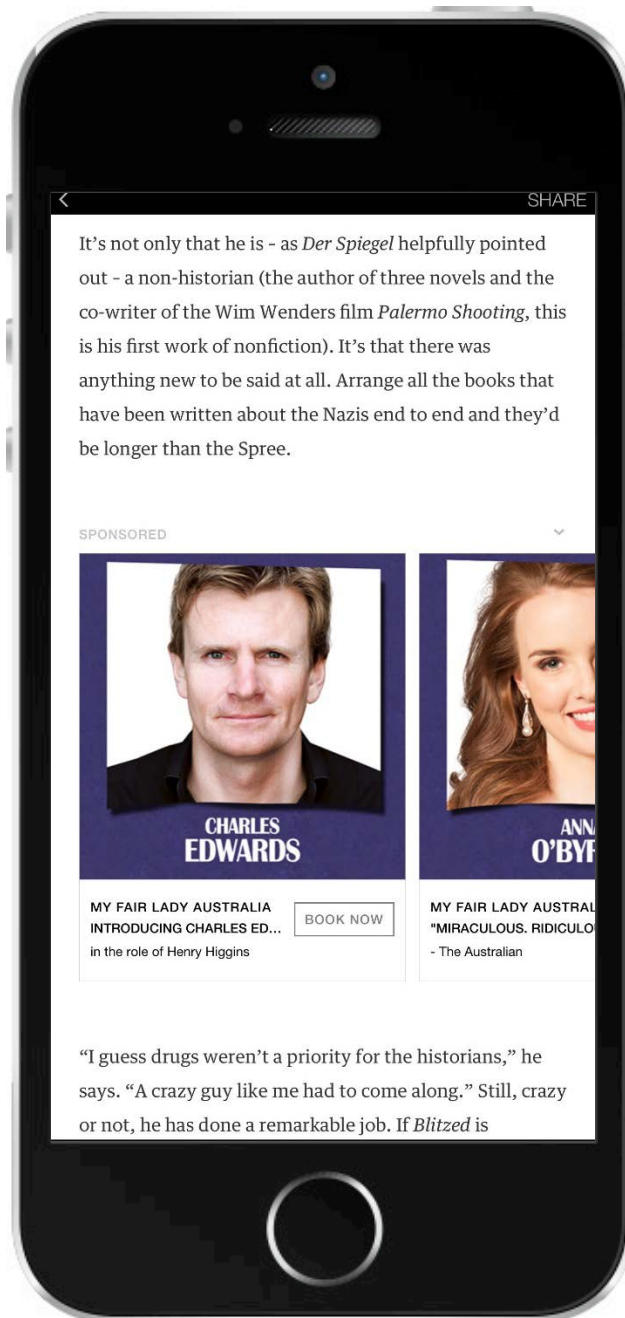
But wait there's more!



Indicating functionality

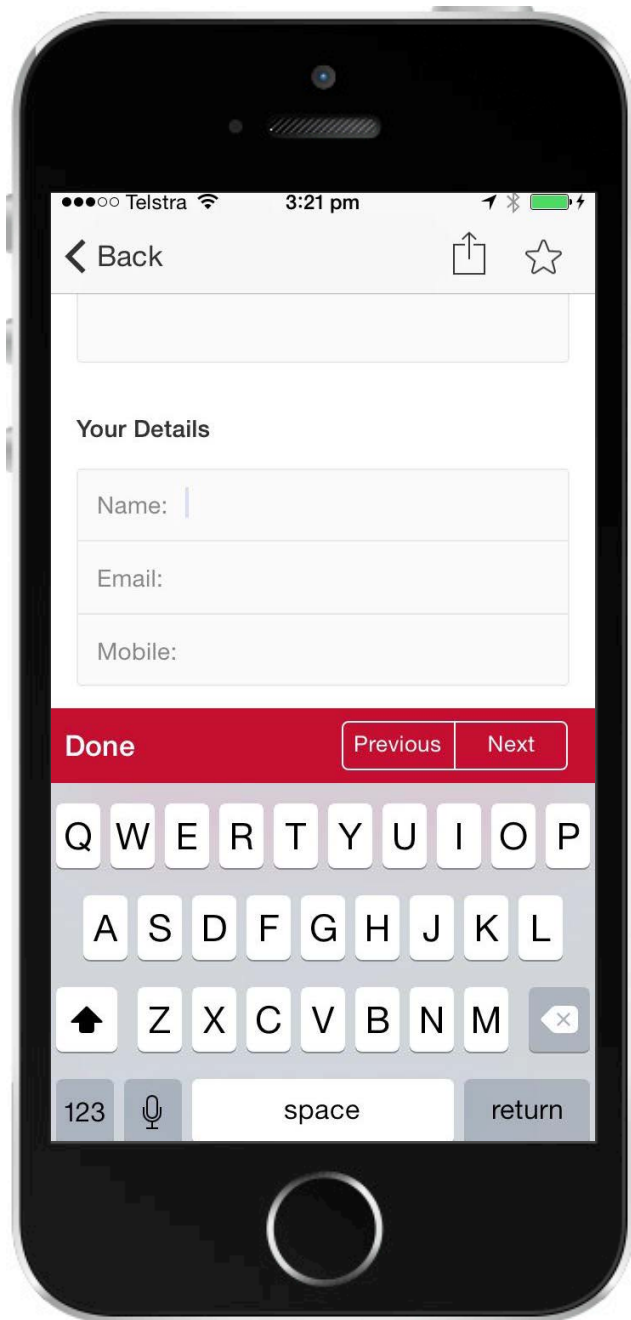


By the standards of this presidential campaign, nothing is



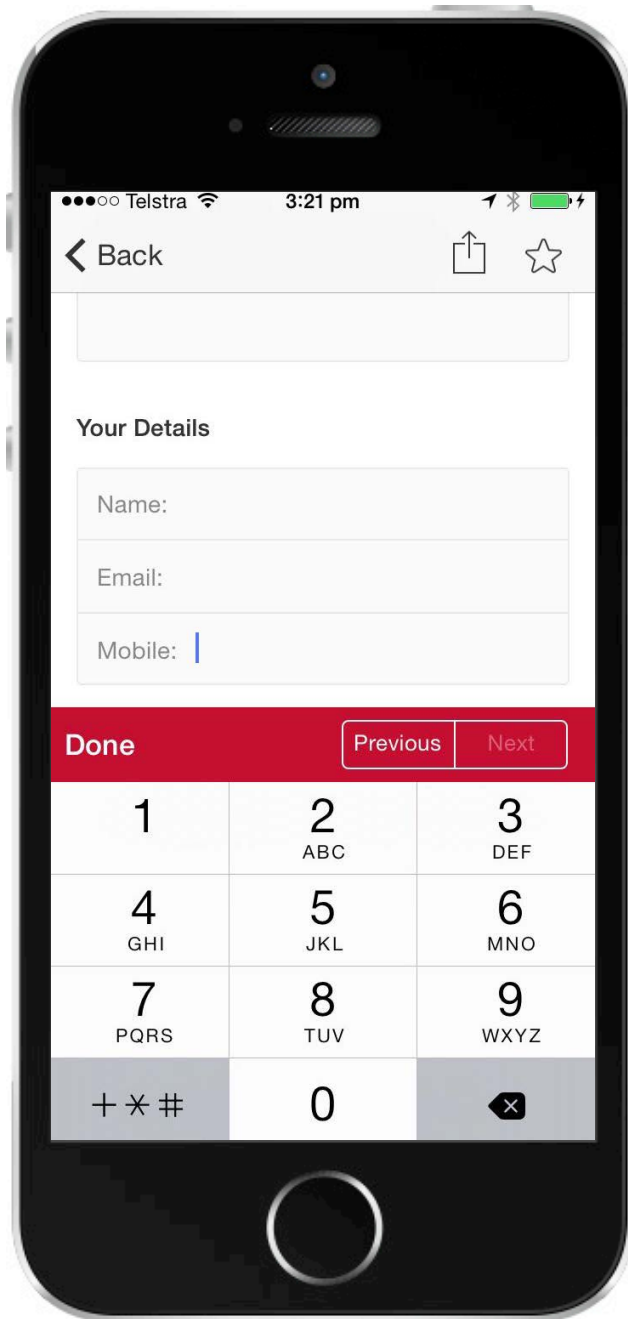
Indicating functionality

And more...



Keyboard

Dismiss and move on!



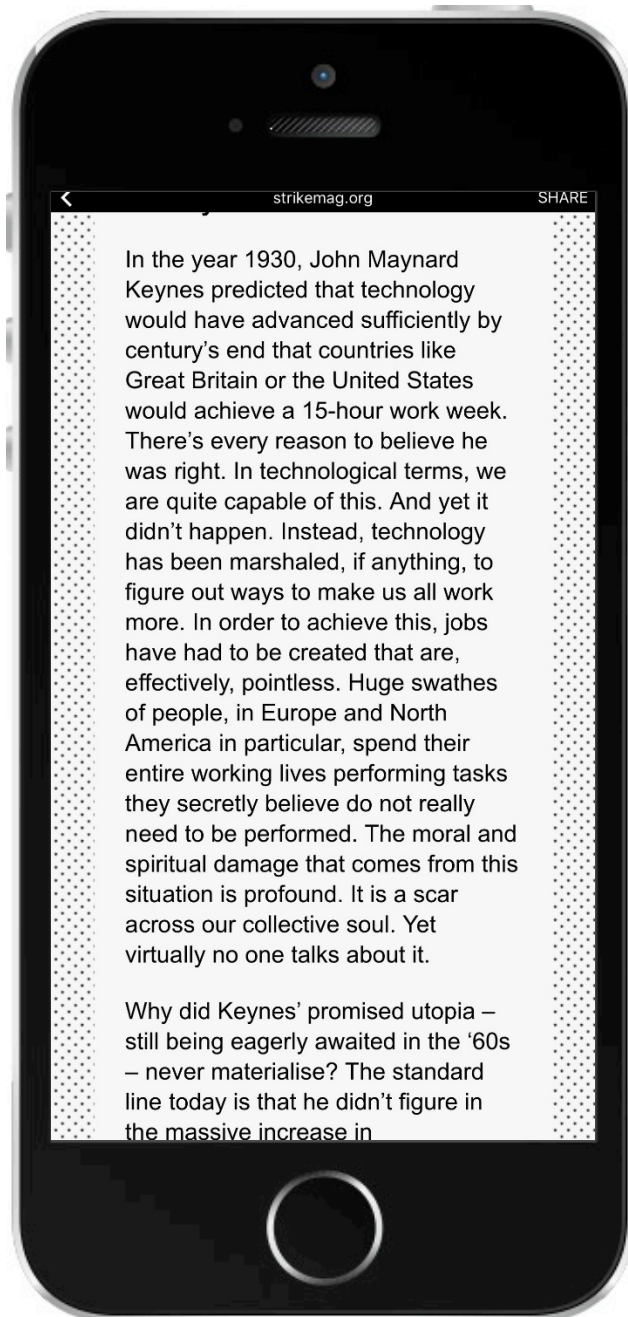
Keyboard

Correct inputs!



Colour and shape

Know exactly when you have booked



Column width

Width no more than 80 characters...

BBC Mobile accessibility guidelines

[a11yoz.com/bbc-
mobile](http://a11yoz.com/bbc-mobile)



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AccessibilityOz


OzWiki: Accessibility Factsheets

<https://www.accessibilityoz.com/factsheets/>



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Questions

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