



Mobile and Accessibility

<http://pz.tt/desertmobile>

www.accessibilityoz.com
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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:

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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



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Mobile accessibility features

System accessibility settings:

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



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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.





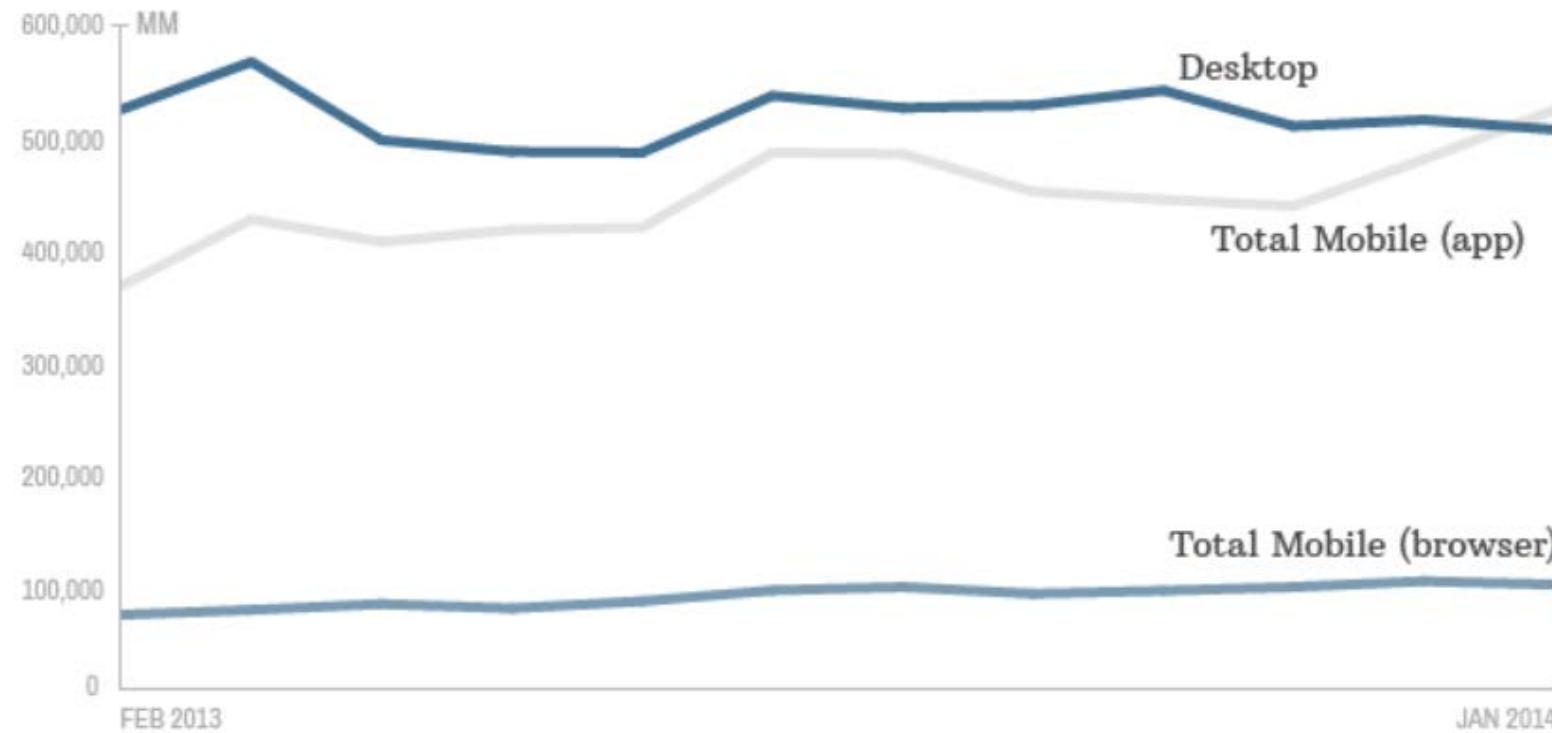
Mobile usage

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US mobile vs desktop usage

US time spent accessing the internet by device



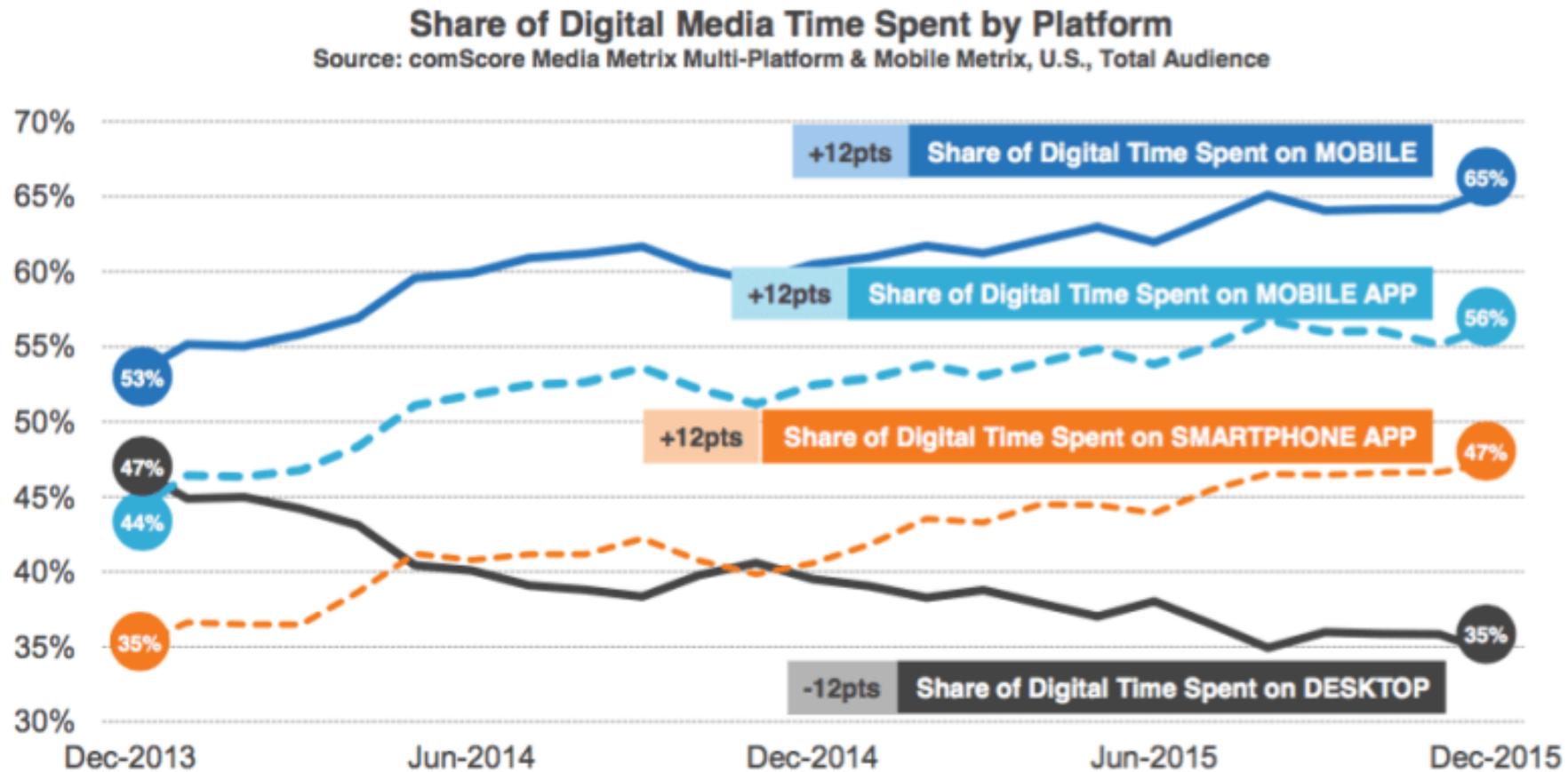
USmobile
usage



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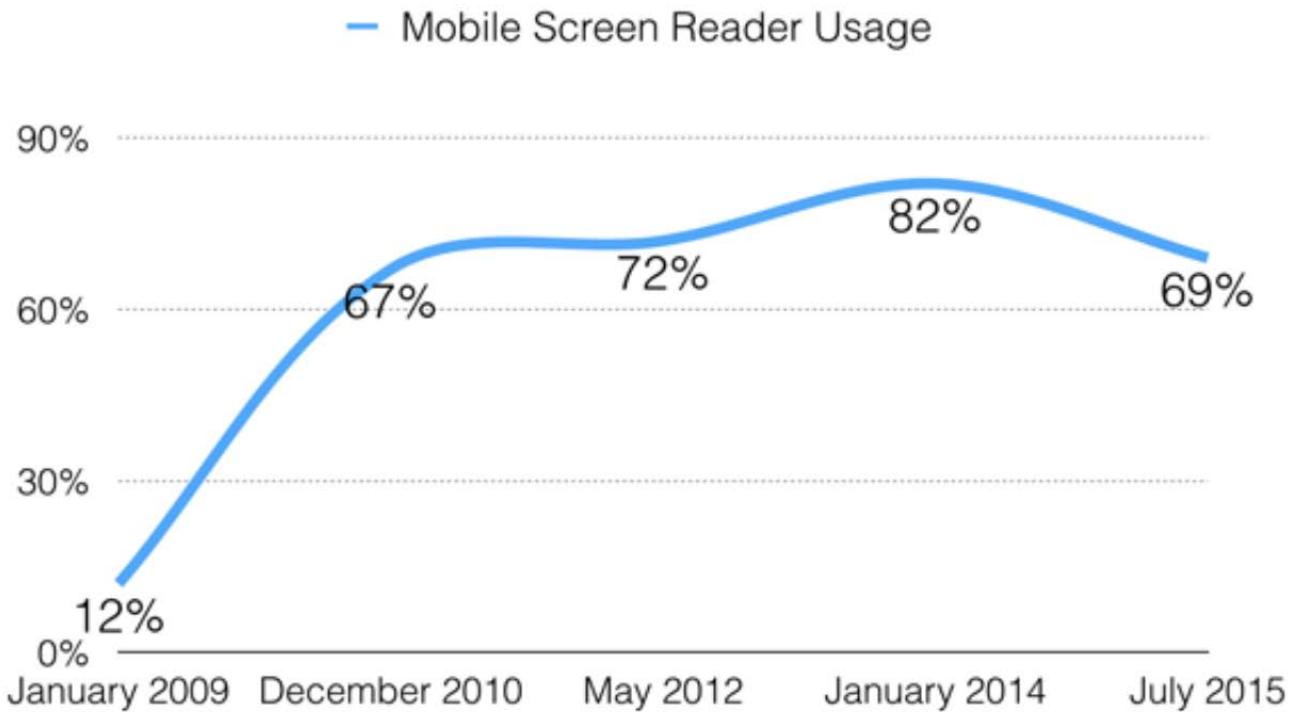
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More recent statistics



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Mobile screen reader use



Percentage of screen reader users that use mobile



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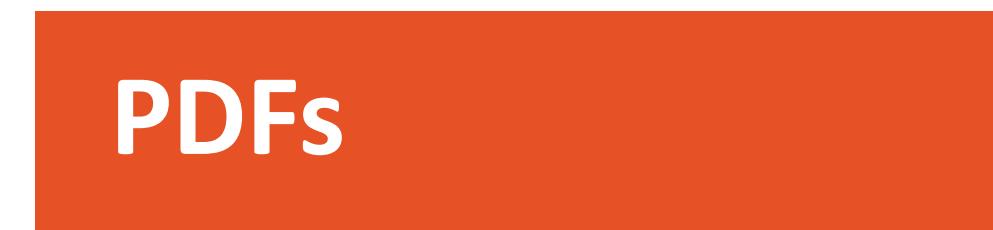
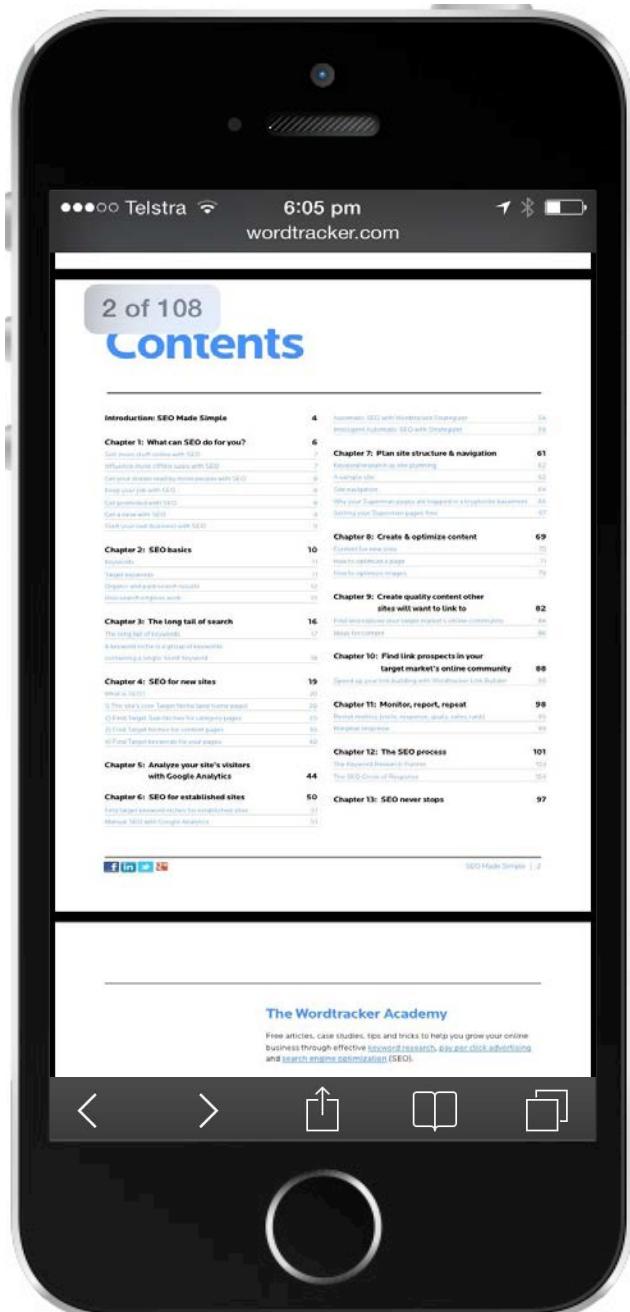
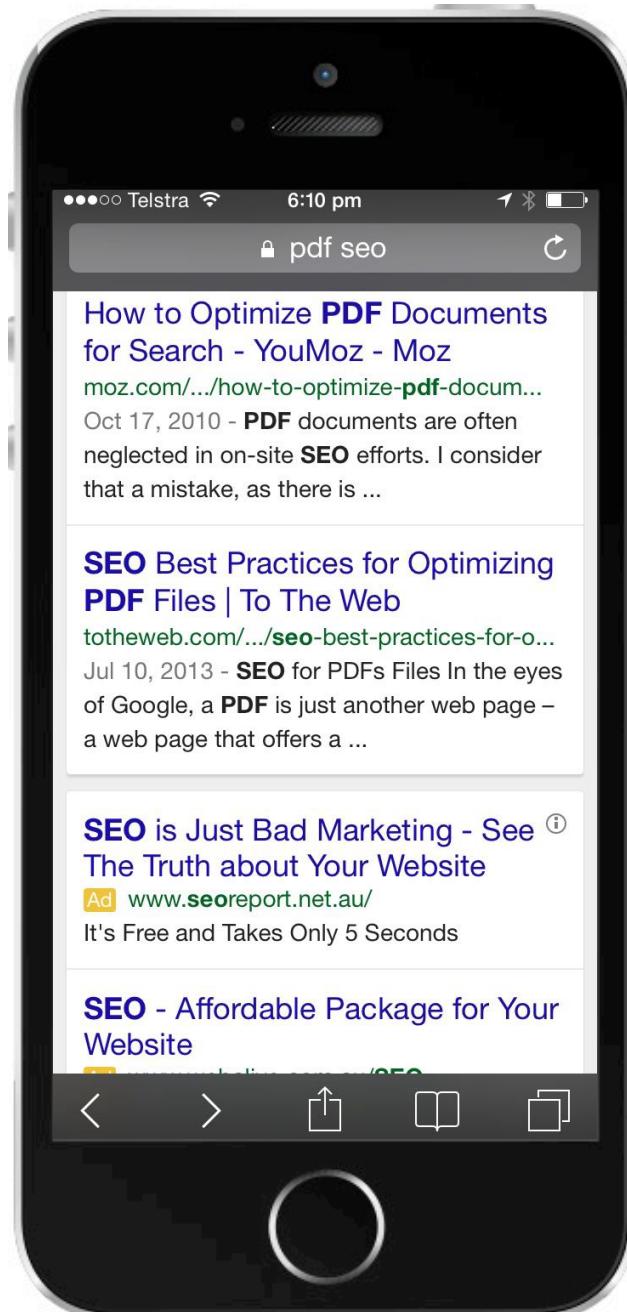


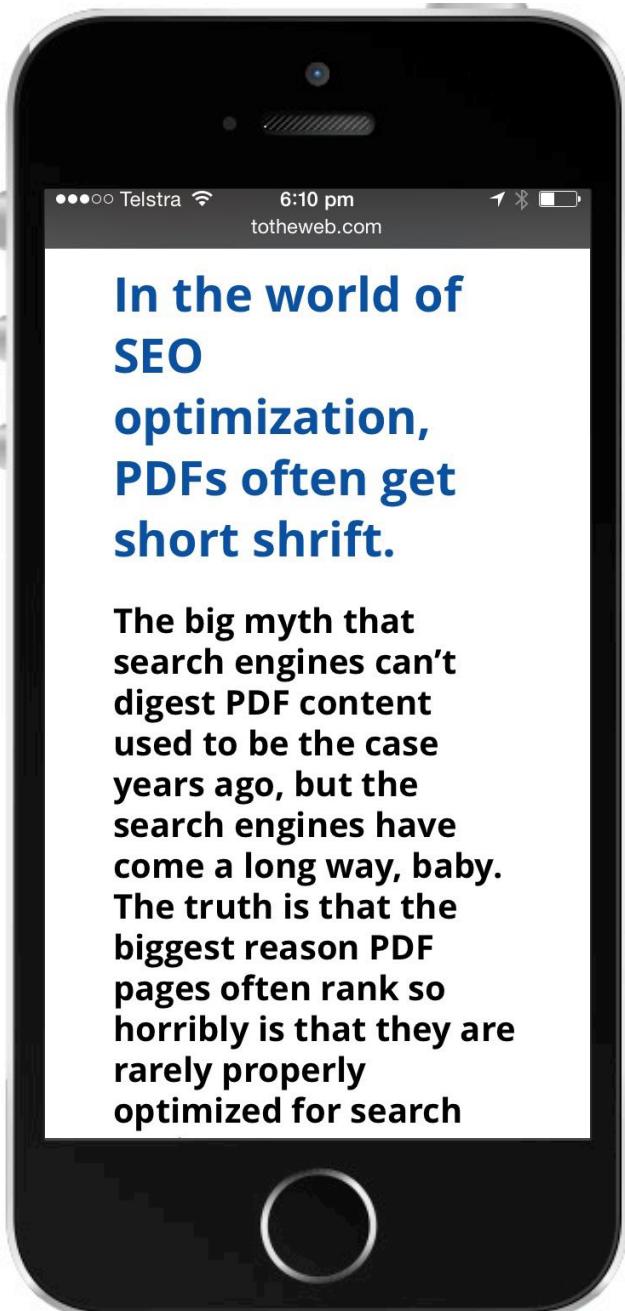
Mobile-specific issues

PDFs

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Which would you prefer?

A close-up photograph of a woman with long, straight hair, smiling broadly. She is wearing a light-colored top and a small, thin necklace. Her hands are visible in the foreground, holding a smartphone. The background is blurred.

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

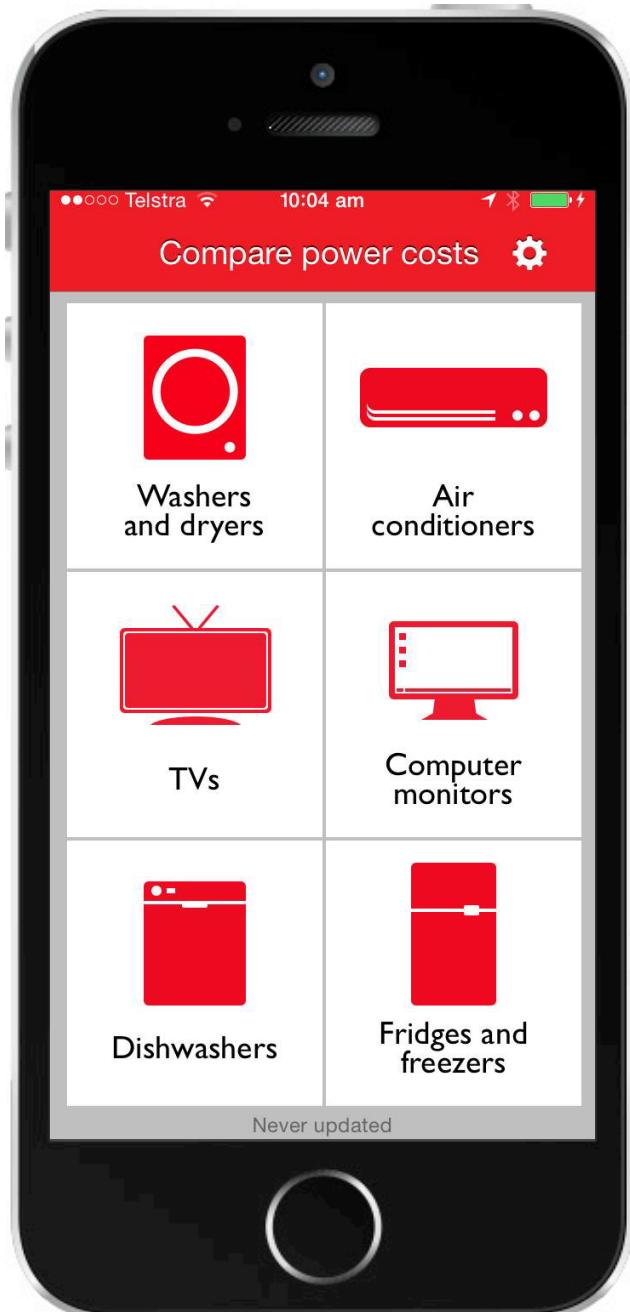
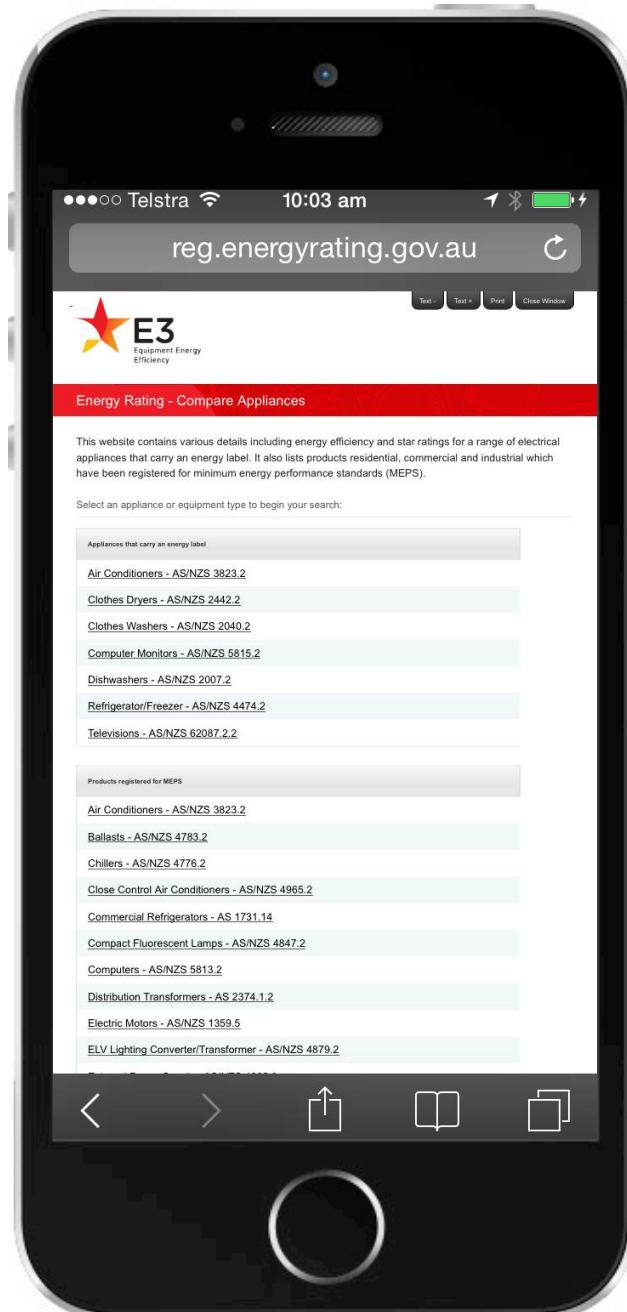


Mobile-specific issues

Friendly to mobile

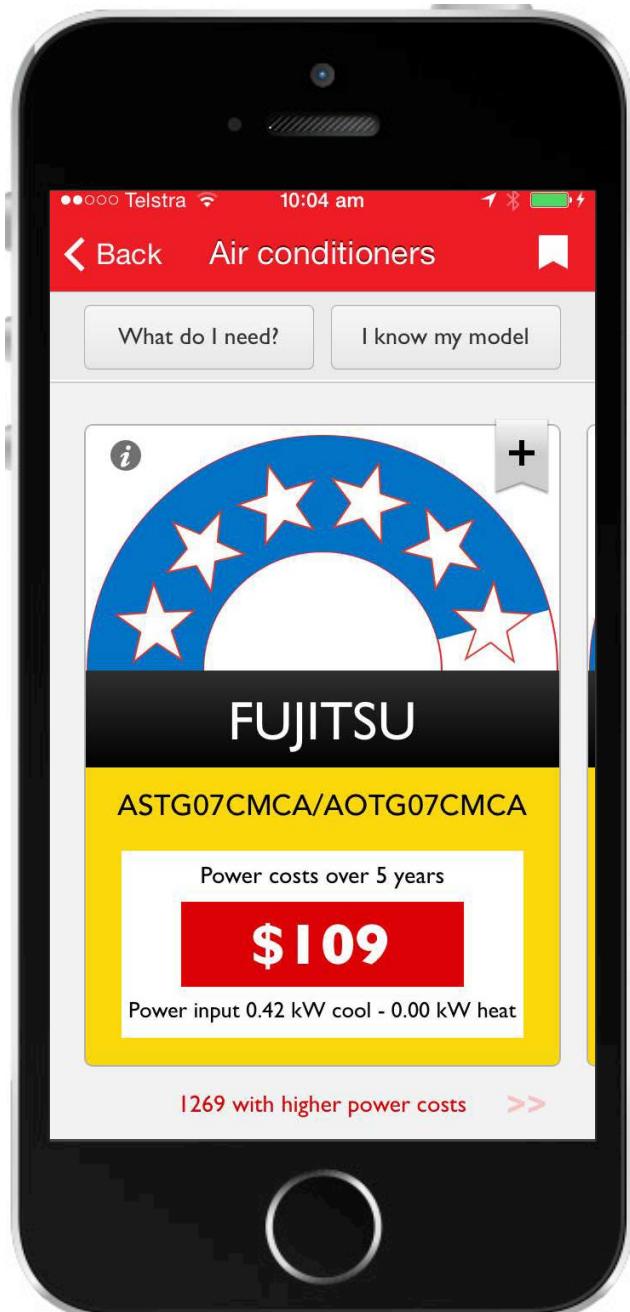
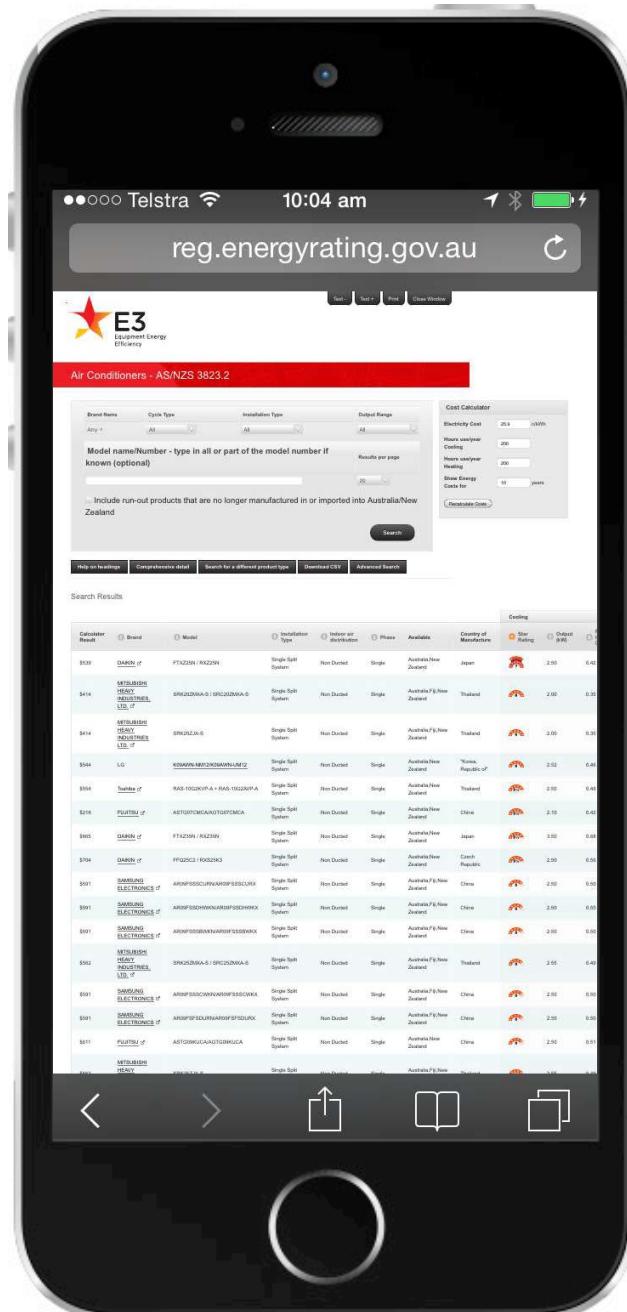
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Mobile sites

Which would you prefer?



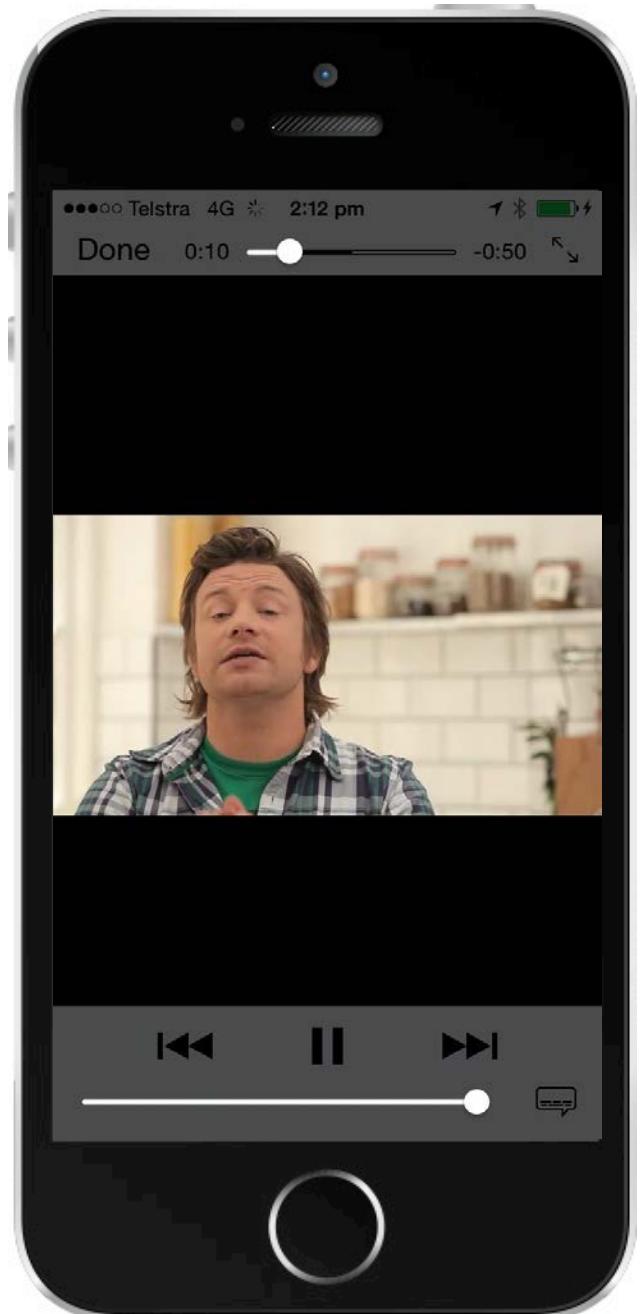
Which would
you prefer?



Mobile issues Autoplay & movement

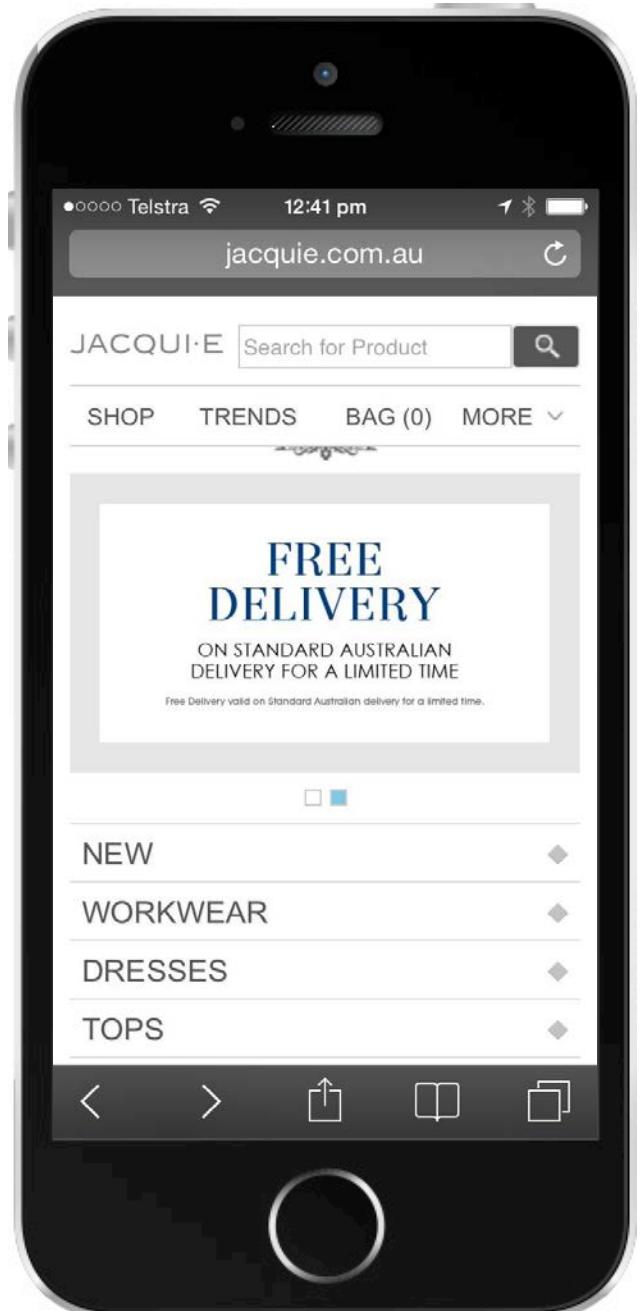
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Autoplay

#AccessibilityFail
One of the most serious
accessibility failures of all
time



Continuous movement

#Annoying

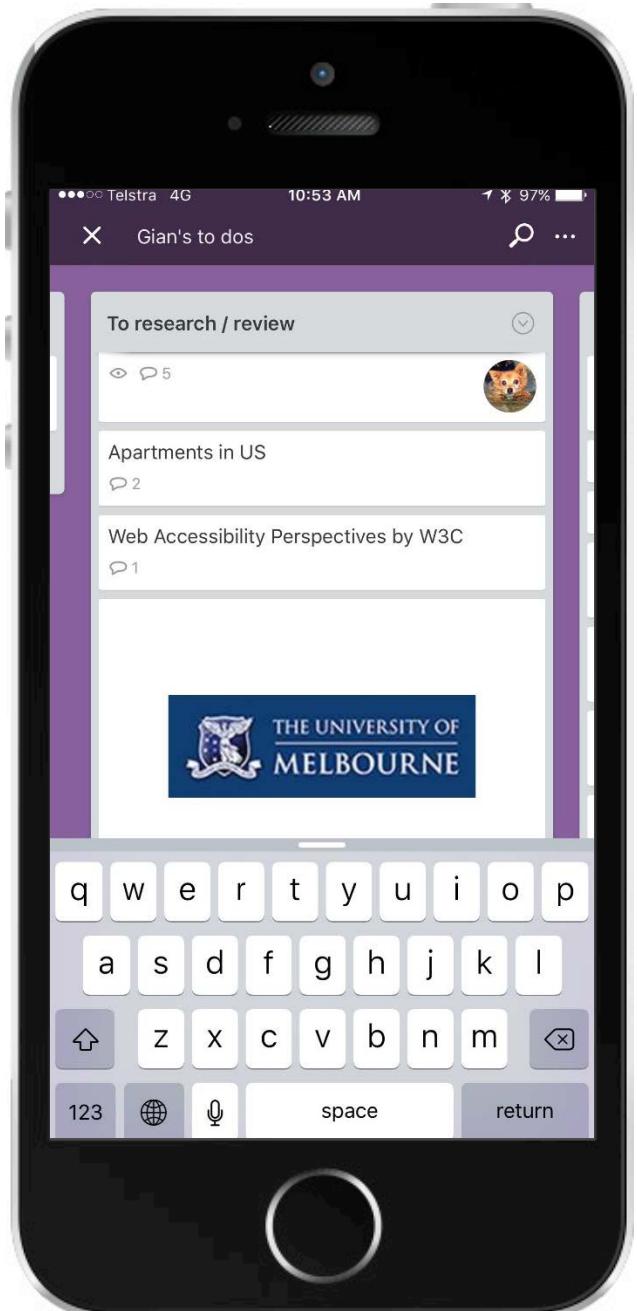


Mobile issues

Traps

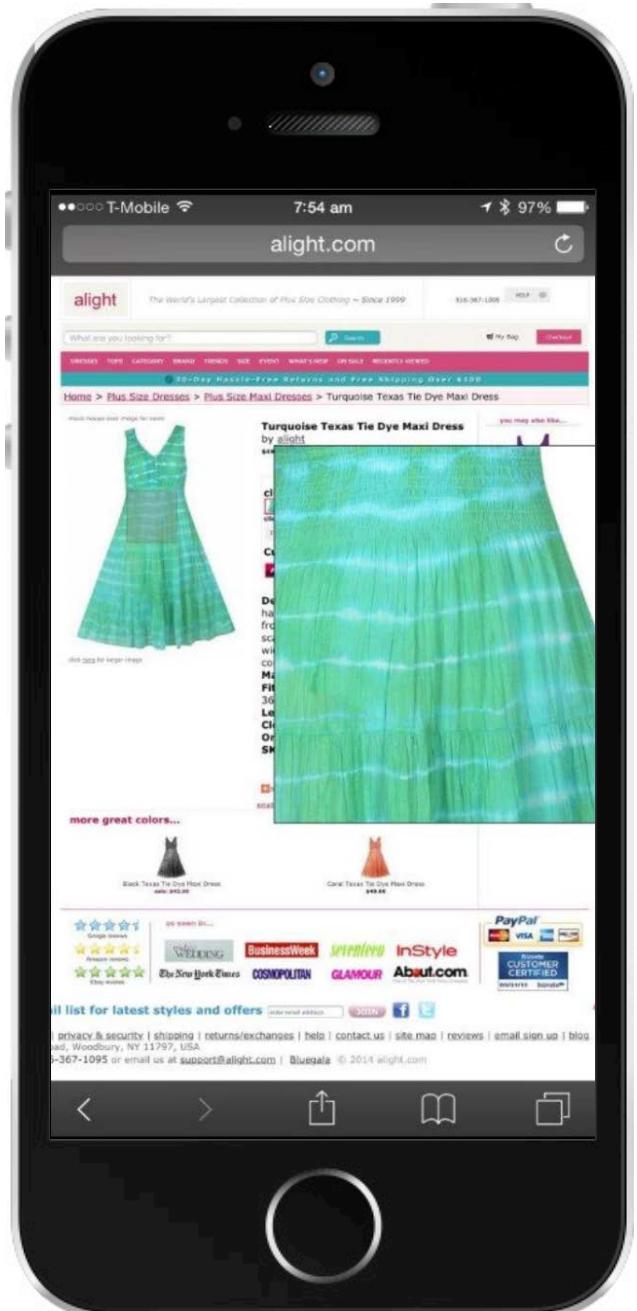
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Onscreen keyboard trap

Cannot dismiss keyboard



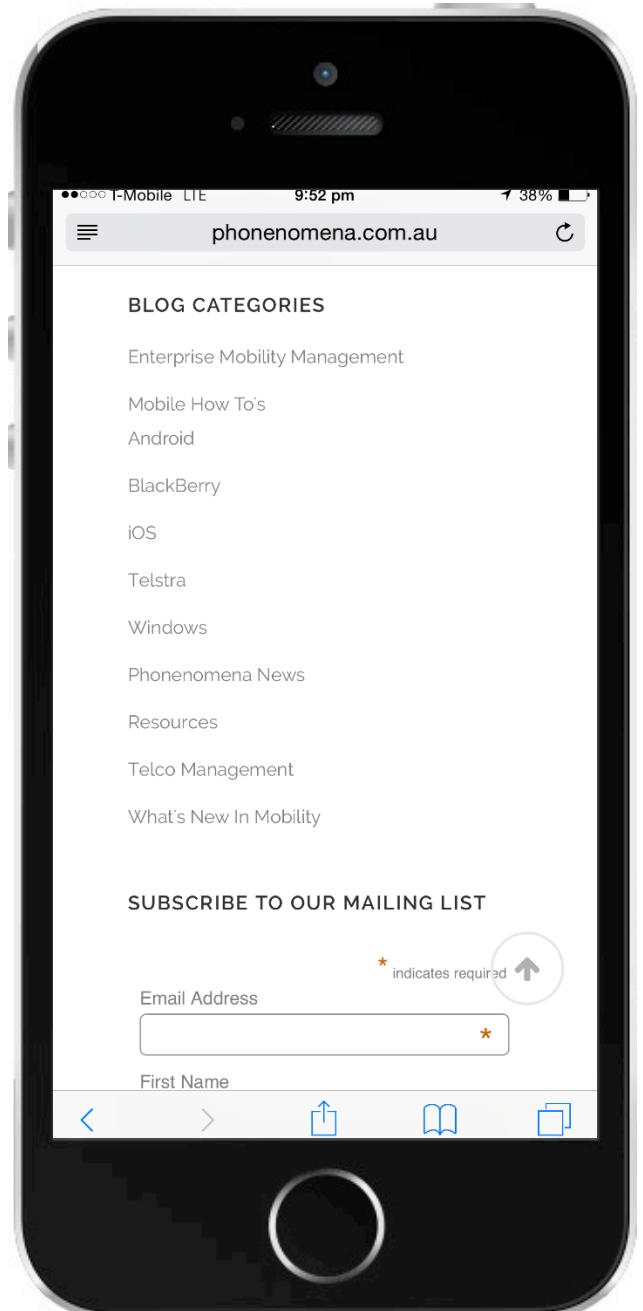
Hover trap

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

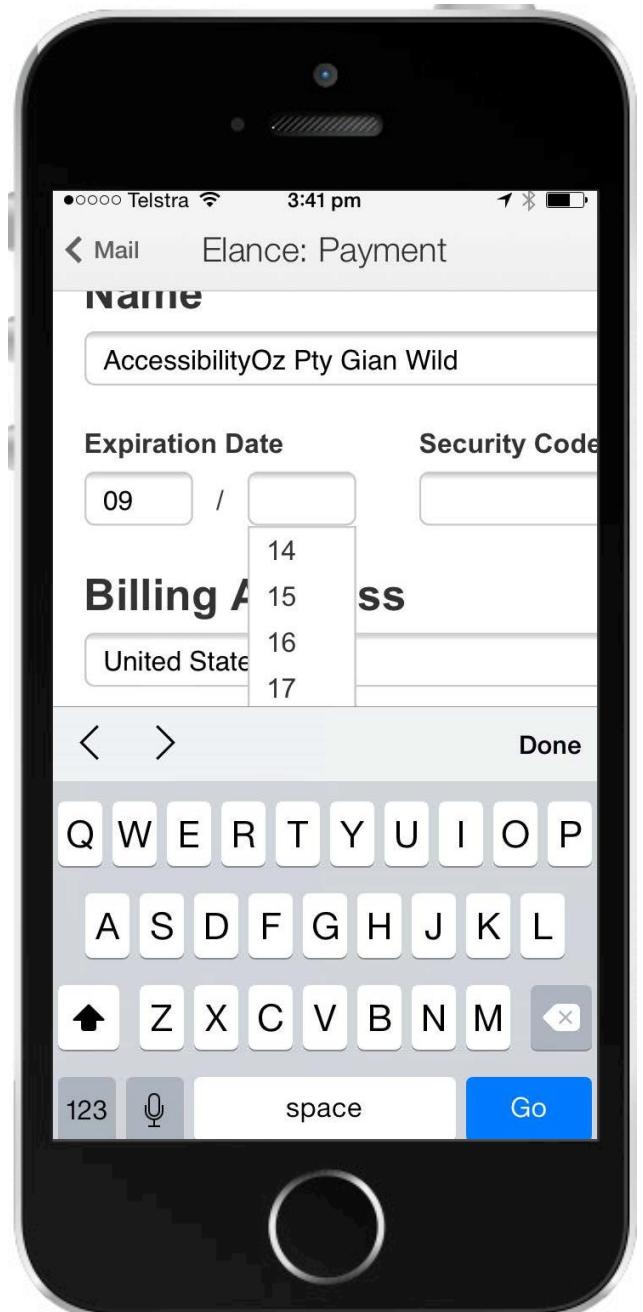


Mobile issues

Access

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Keyboard

Know your inputs

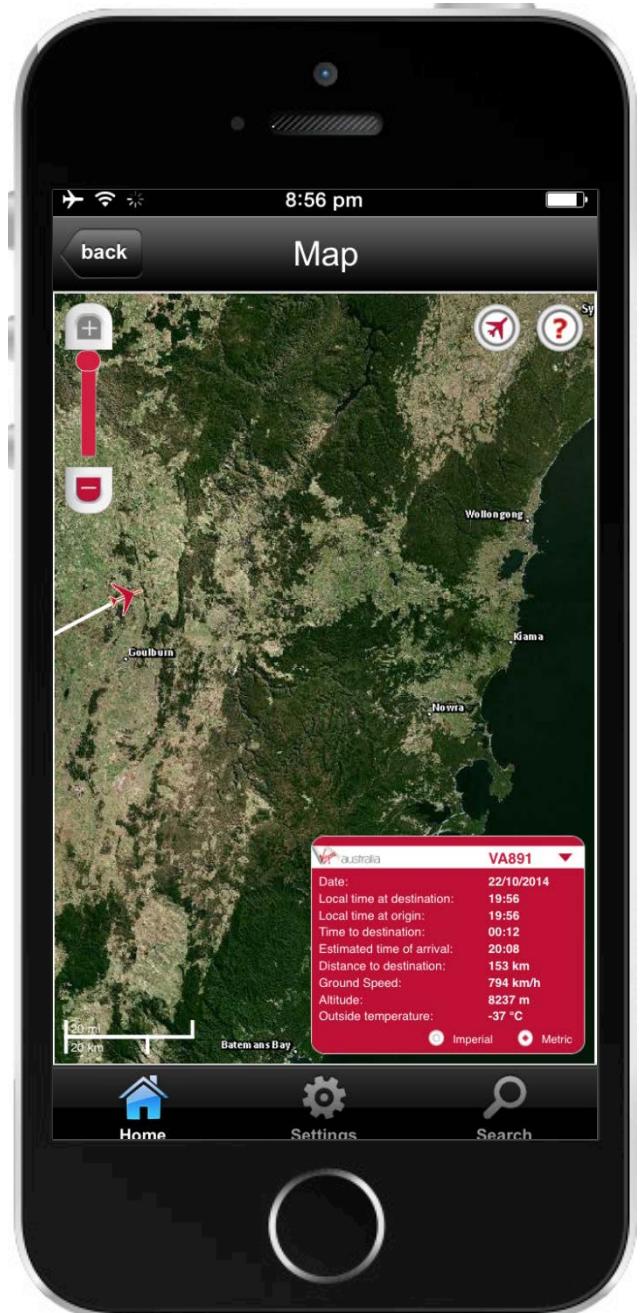


Mobile issues

Text size too small

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Text size too small

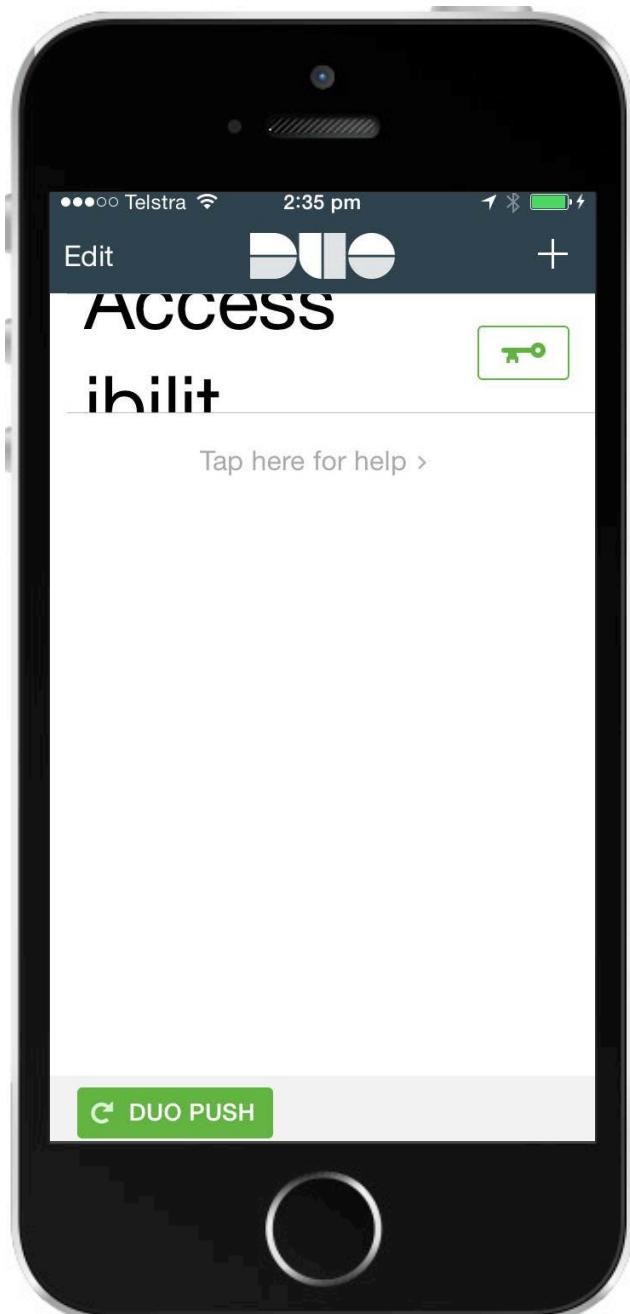
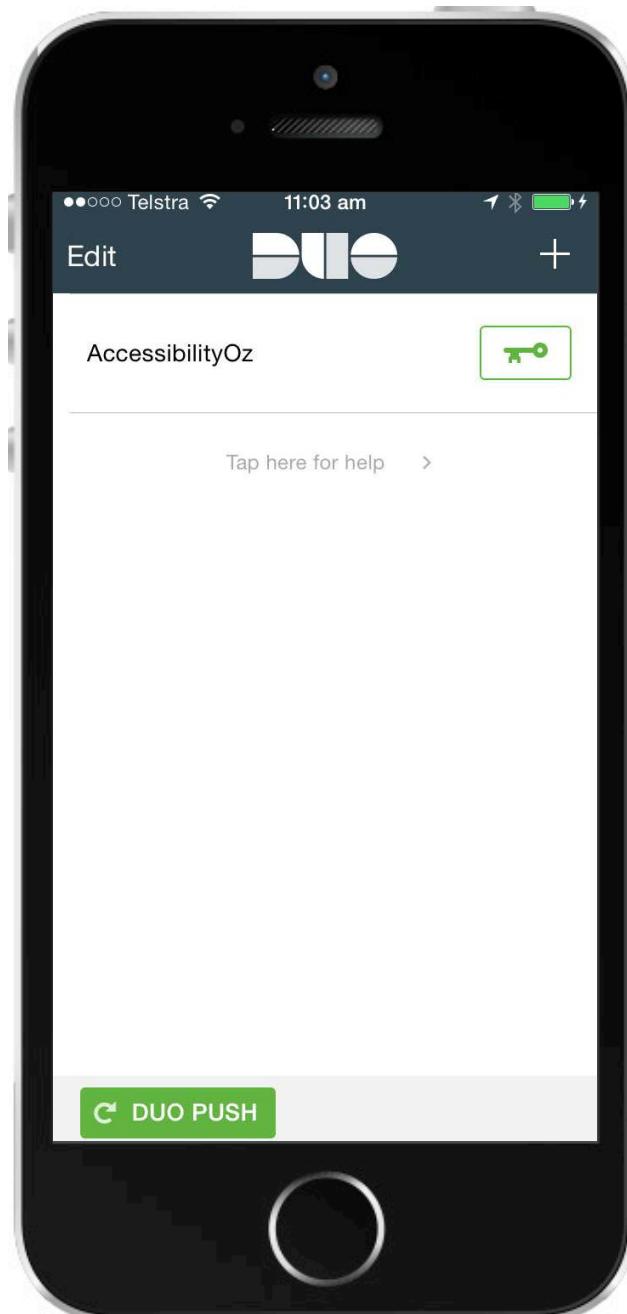
Too small



Mobile issues
Text size settings not
supported

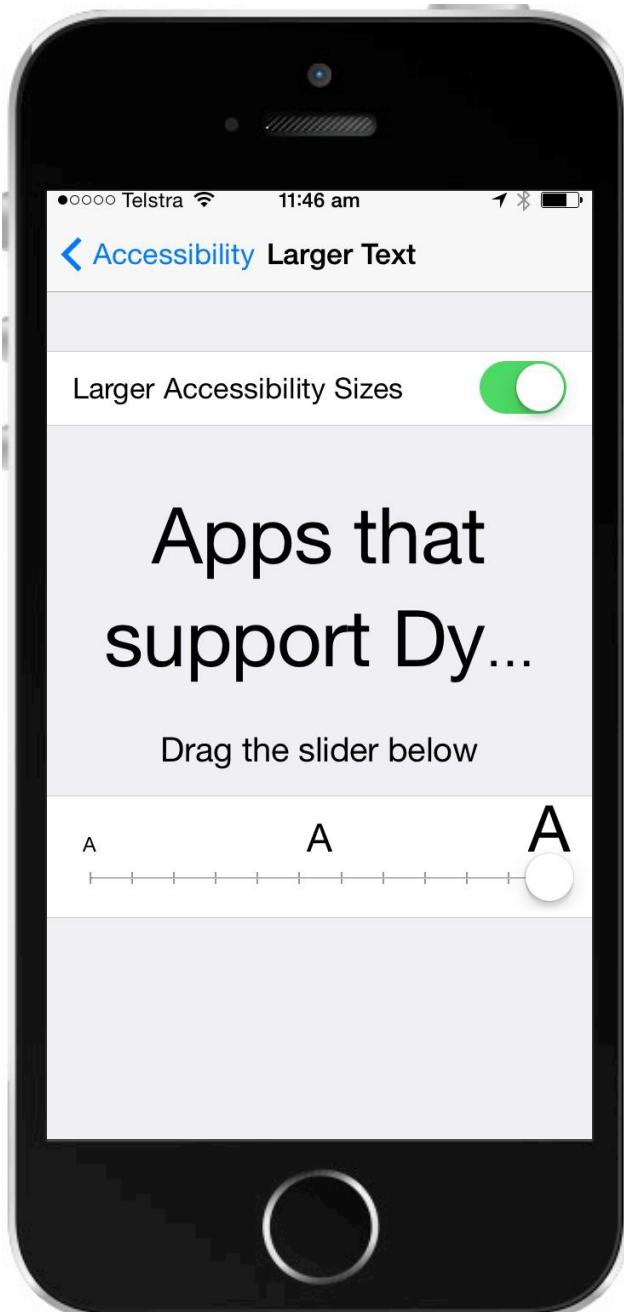
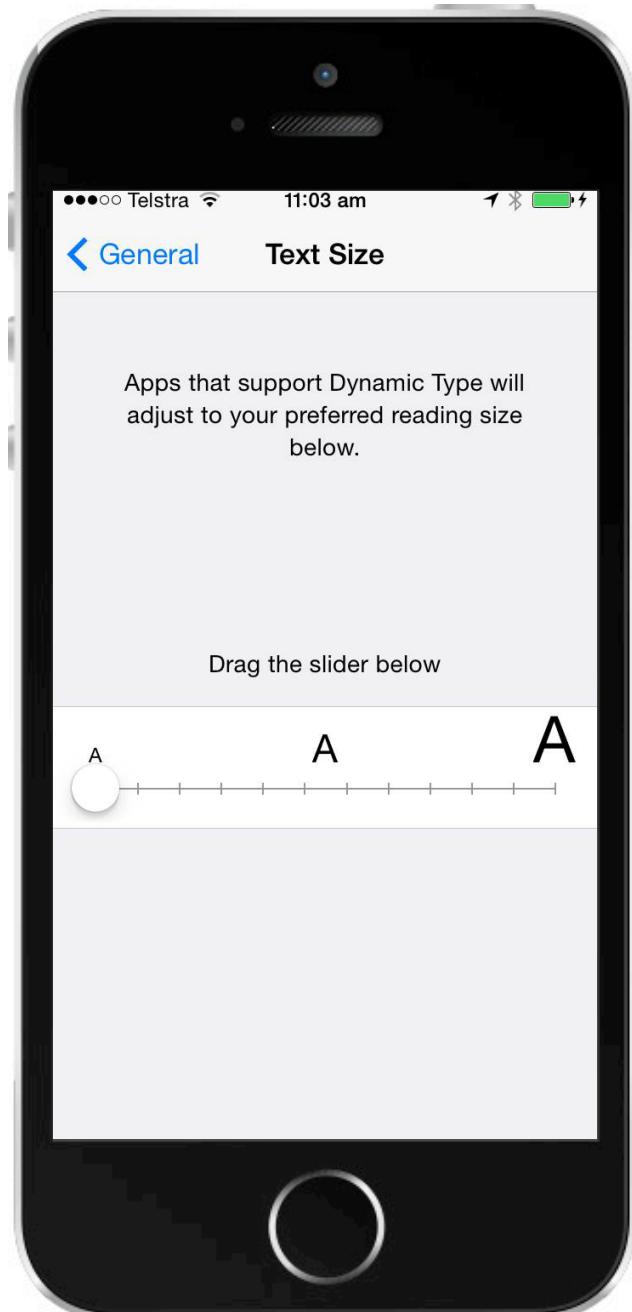
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System settings

#TestAllThe
Things



System settings

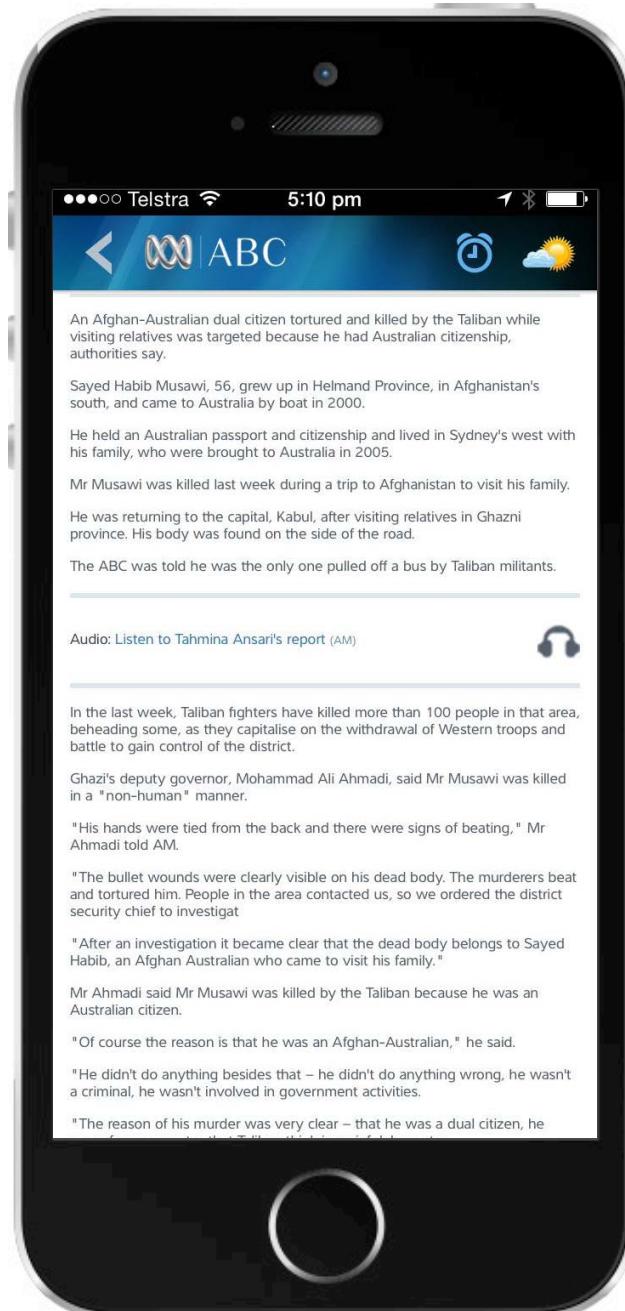
If Apple can't
get it right...



Mobile issues
Large text is not...
large.

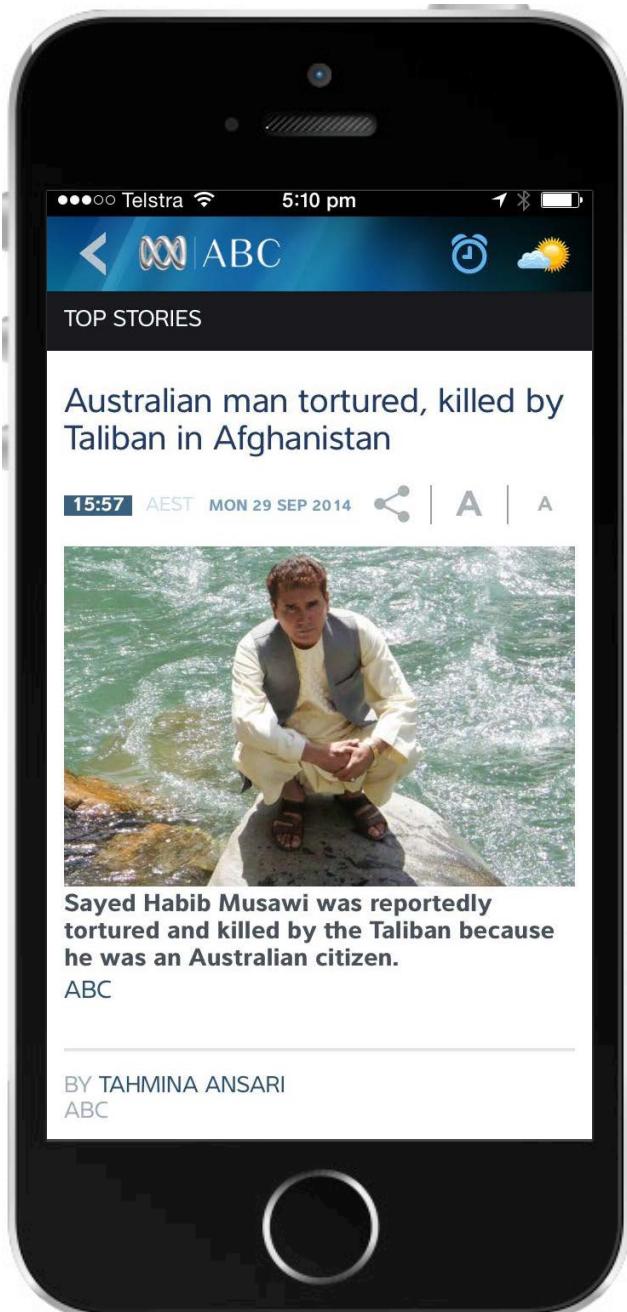
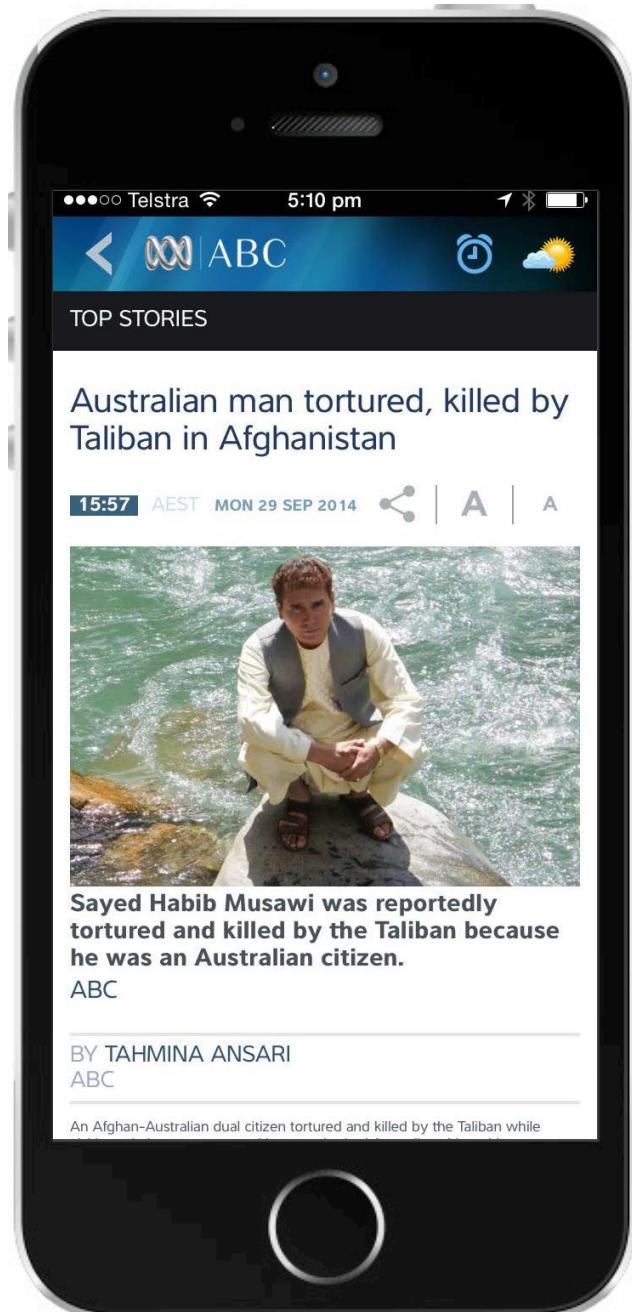
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In-app settings

Do you call that
large text?



In-app settings

Ummm...
where is the
large text?

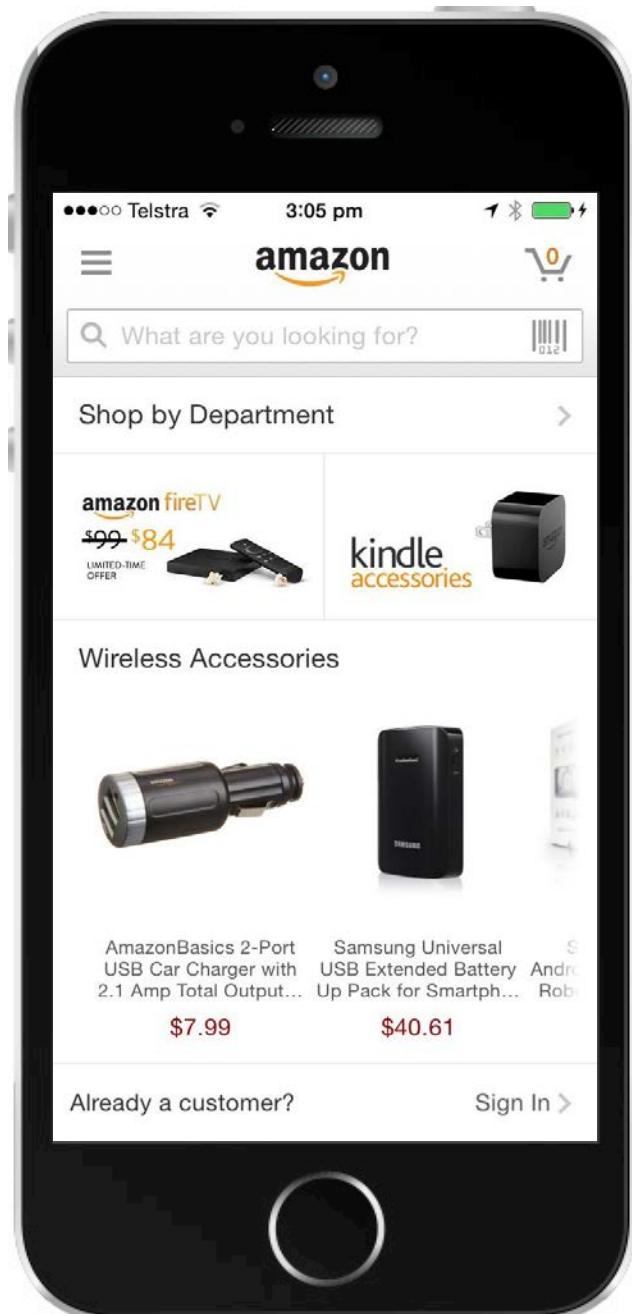


Mobile issues

Colour contrast

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Colour contrast

Grey text on a white
background: #JustSayNo

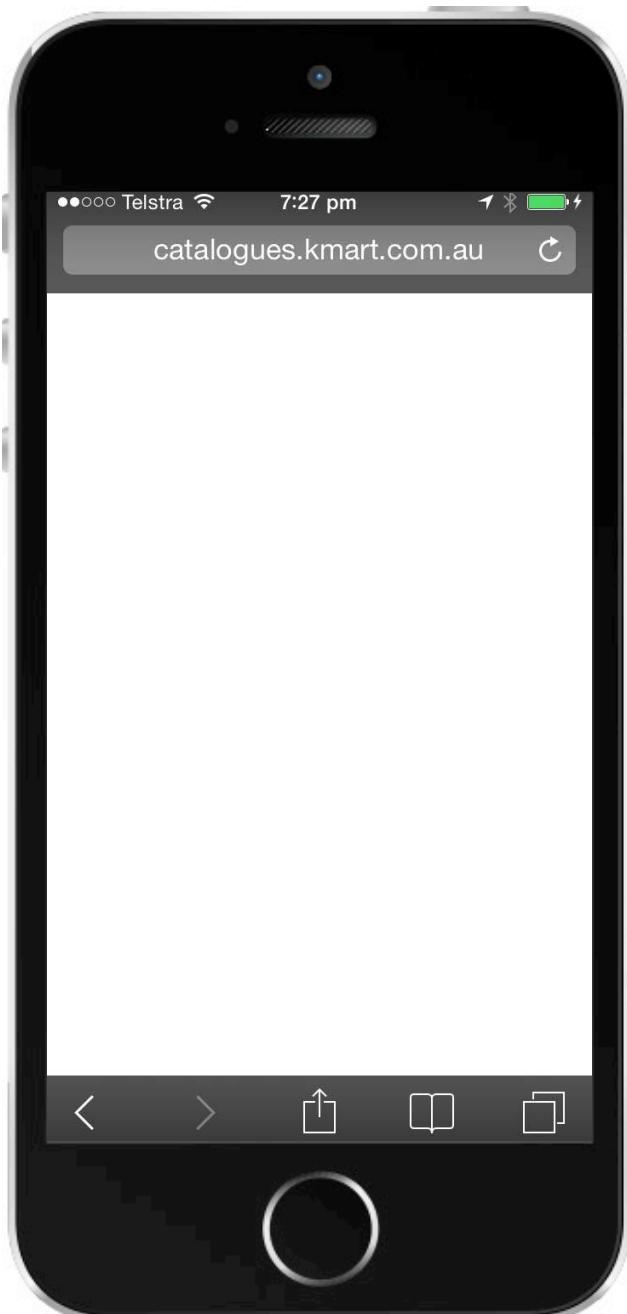
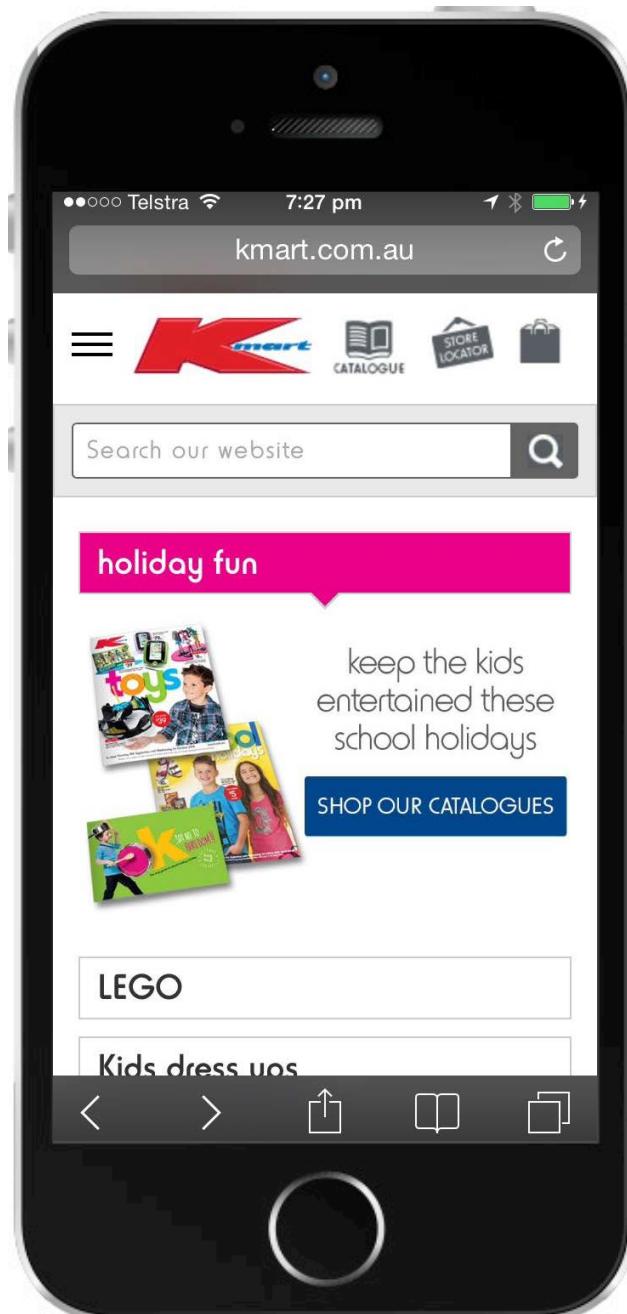


Mobile issues

Broken functionality

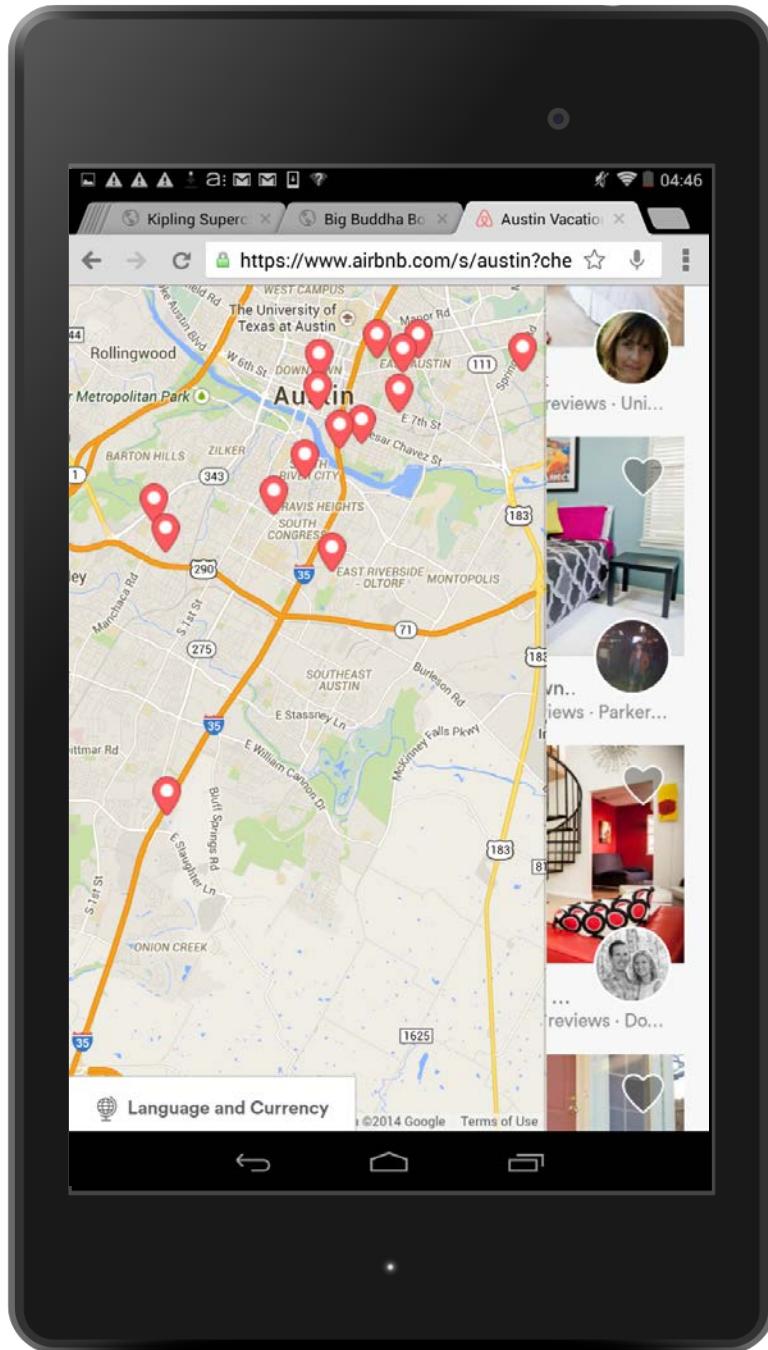
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Functionality

It's good if it works...

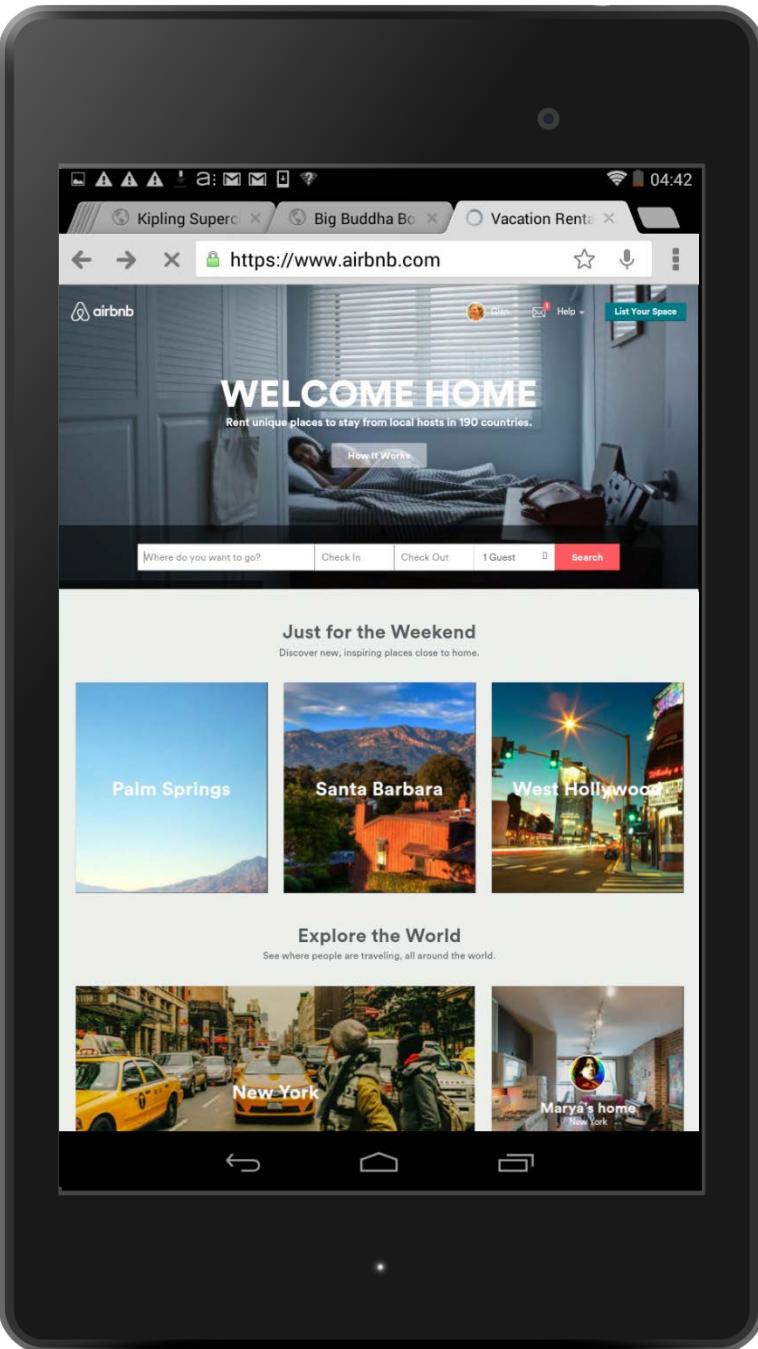


Functionality

Zooming breaks the site

A close-up photograph of a woman with long, straight hair, smiling broadly at the camera. She is wearing a light-colored top and a small, thin necklace with a green pendant. Her hands, with dark-painted fingernails, are visible as she holds a smartphone in her right hand. The background is a plain, light color.

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



Desktop / mobile

WTF?!?

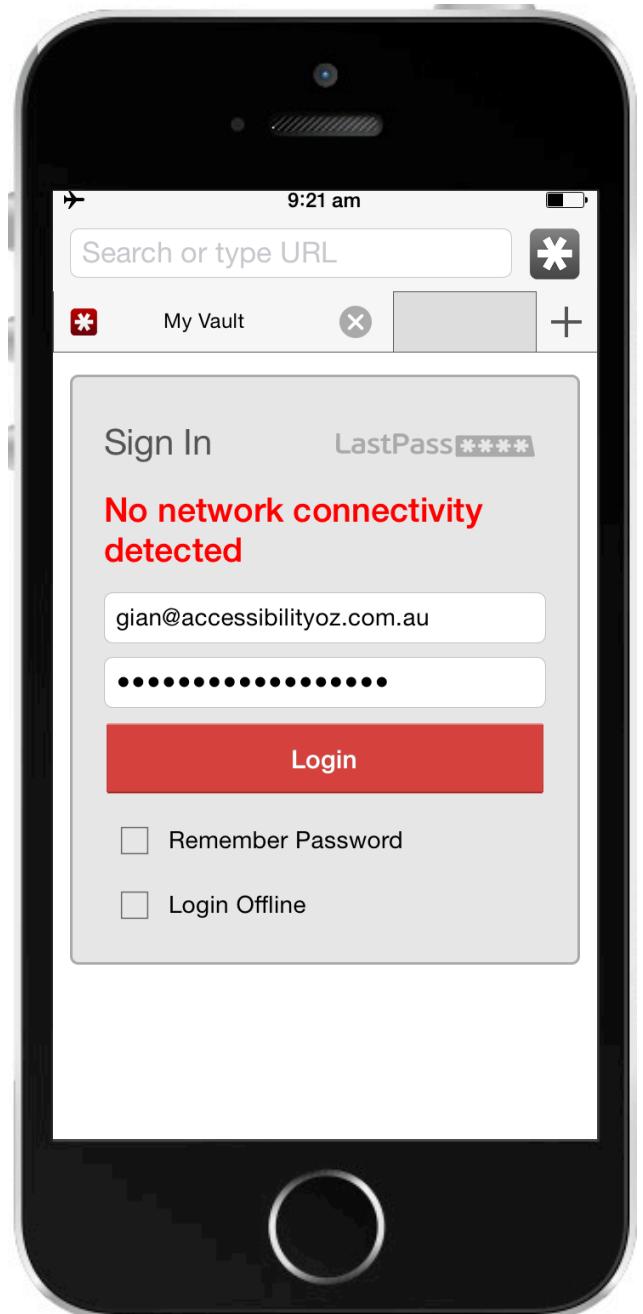


Mobile issues

Source order

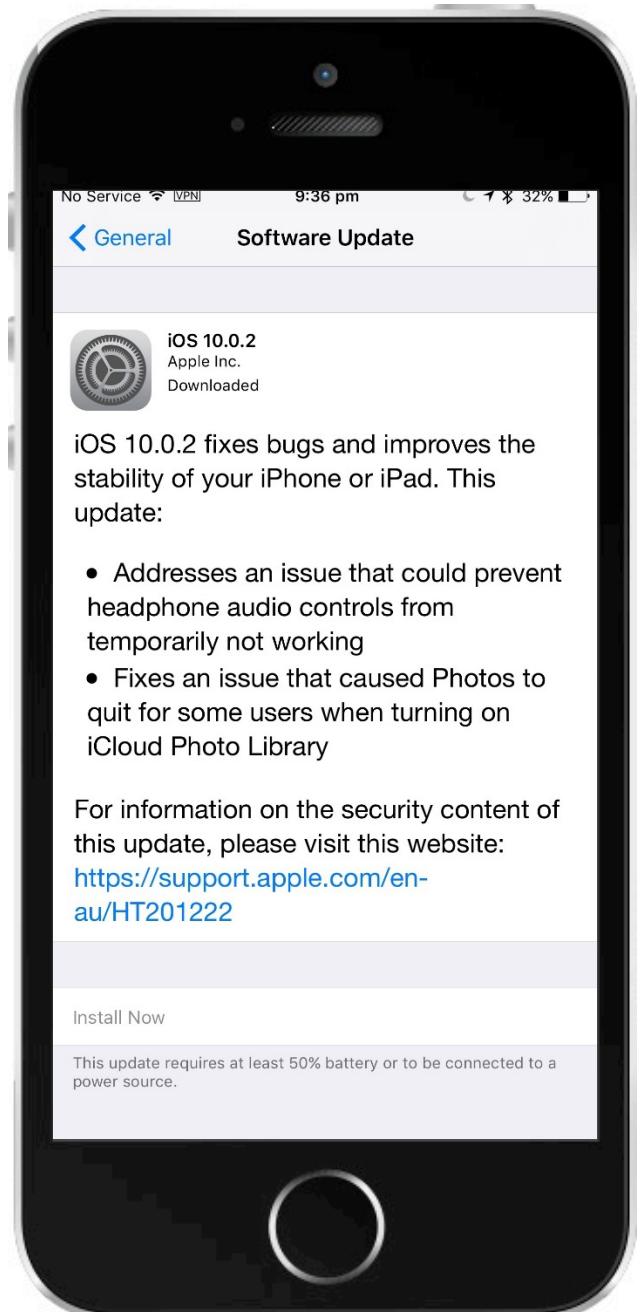
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Source order

Important information should never be after a Submit button



Source order

Even Apple can't get it right...

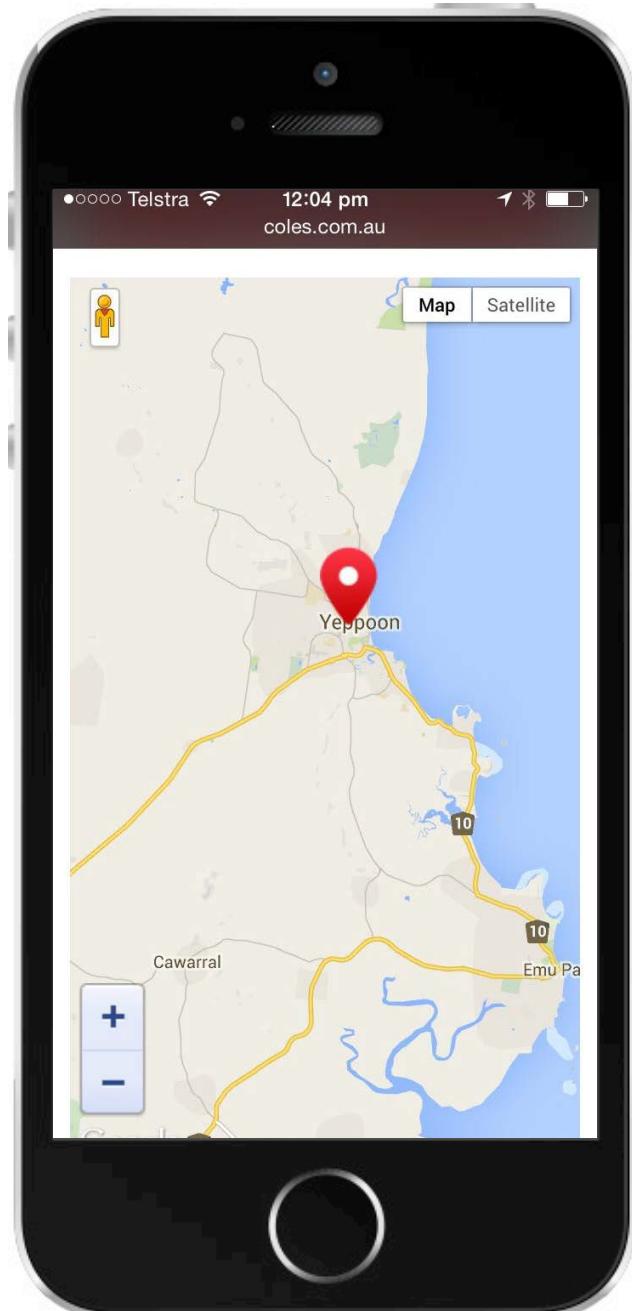


Mobile issues

Touch targets

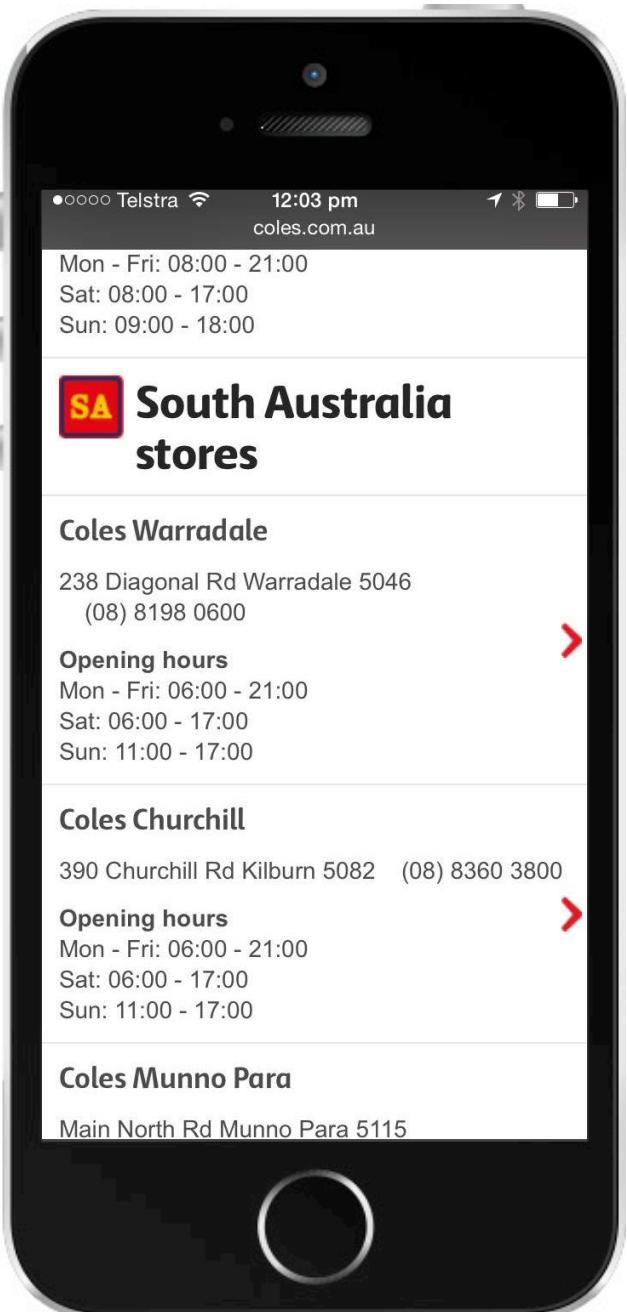
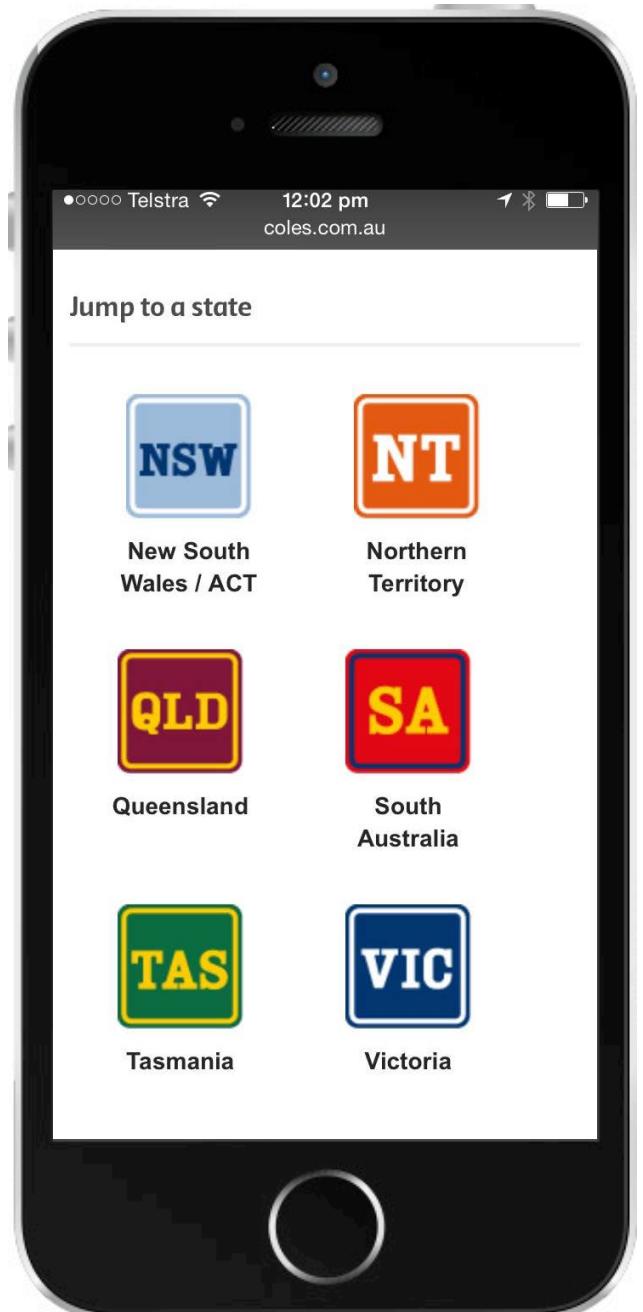
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Touch targets & maps

Avoid the zoom of doom



Touch targets

Oops!

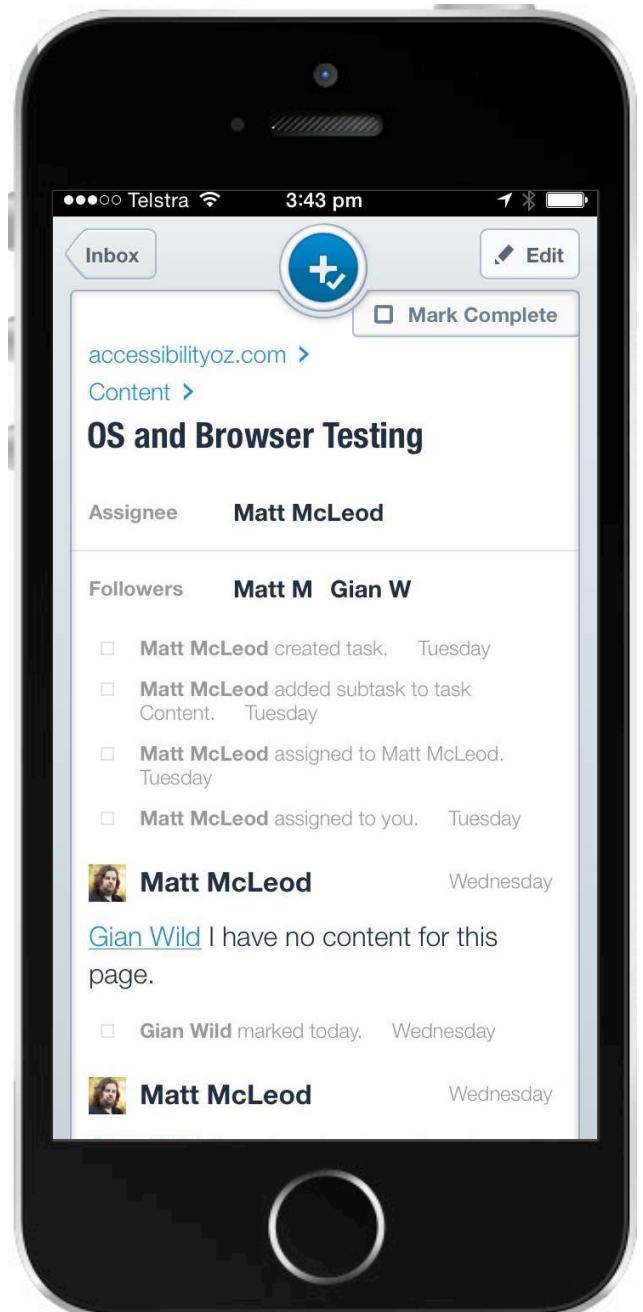


Mobile issues

Spacing

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Spacing

Be careful what you select...



Mobile issues

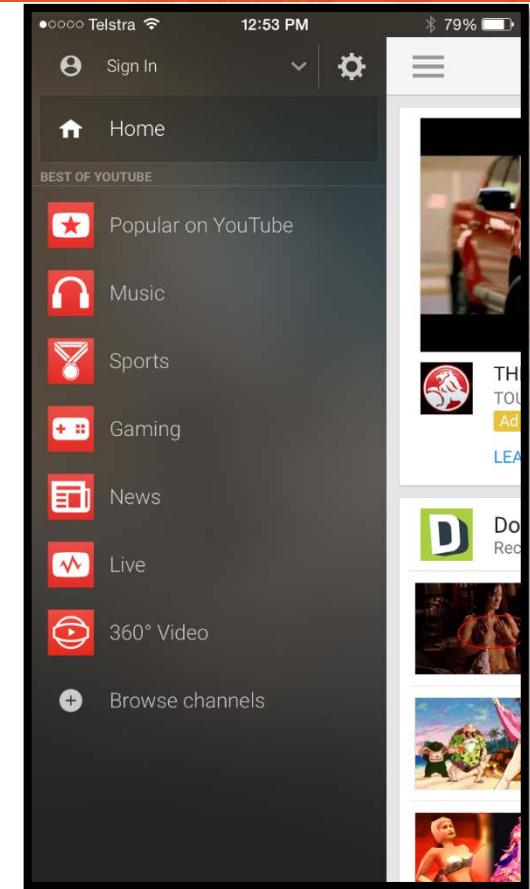
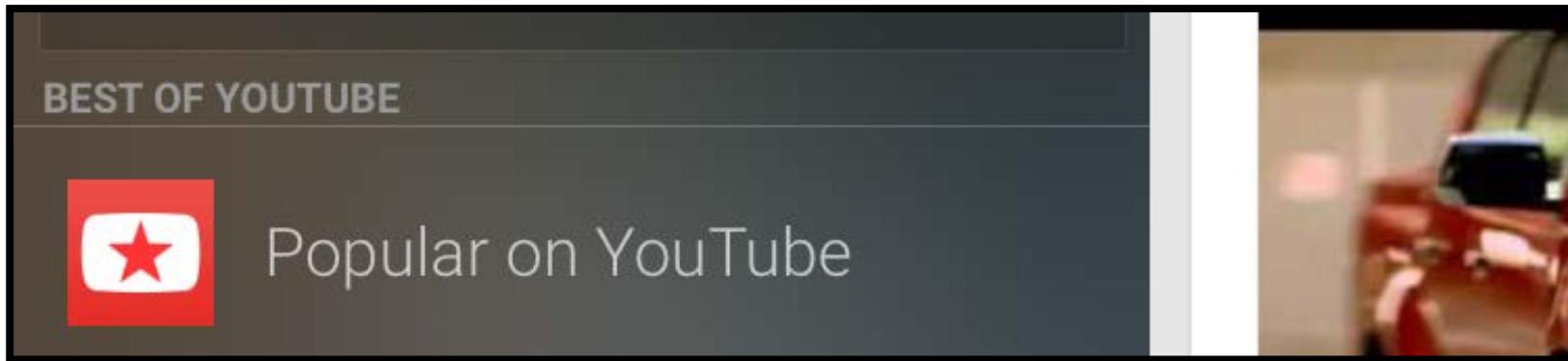
Lack of testing

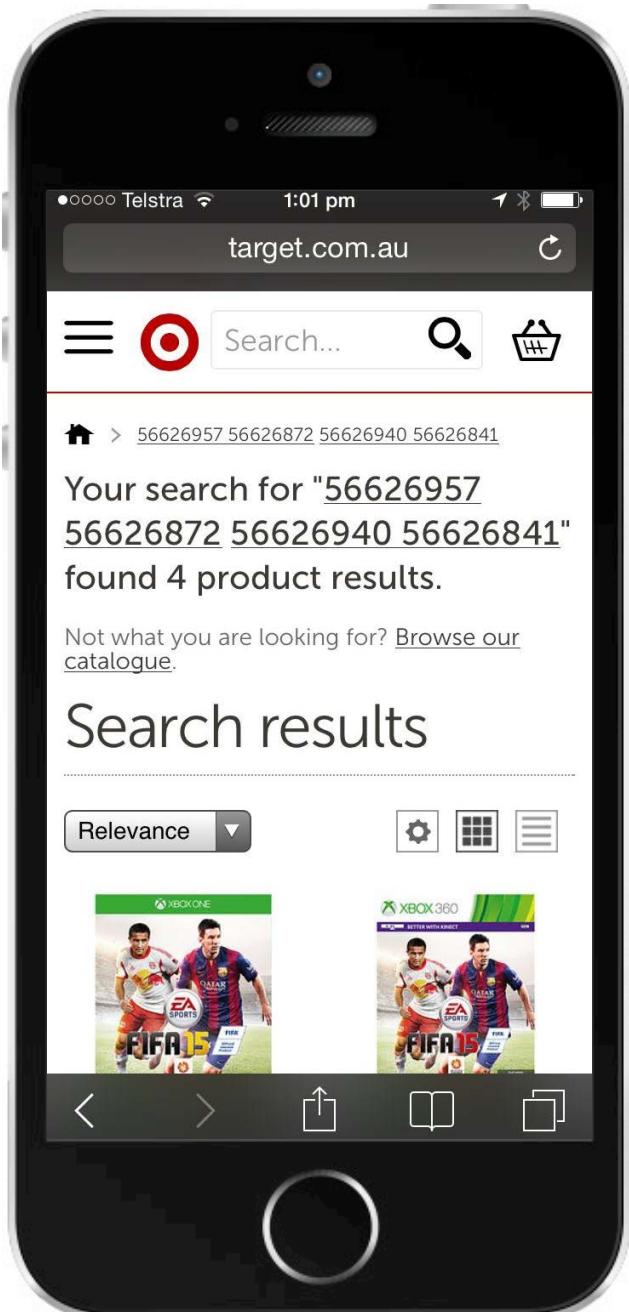
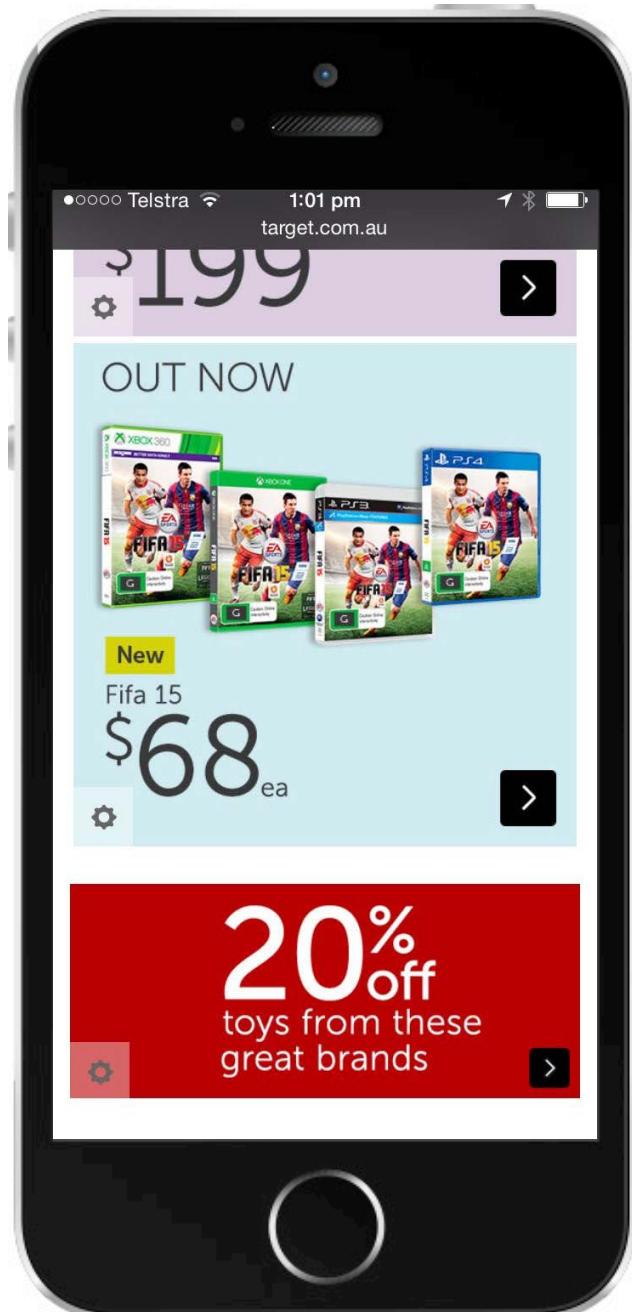
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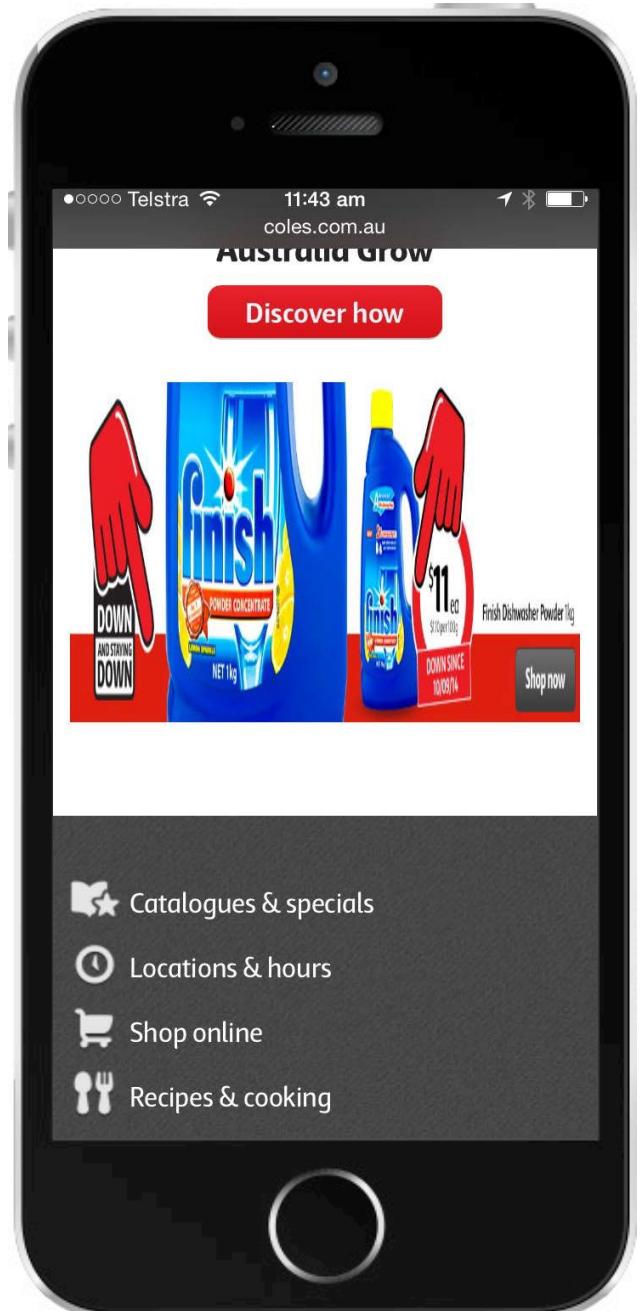
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VoiceOver

'BEST OF YOUTUBE' read as 'best of YaToob'

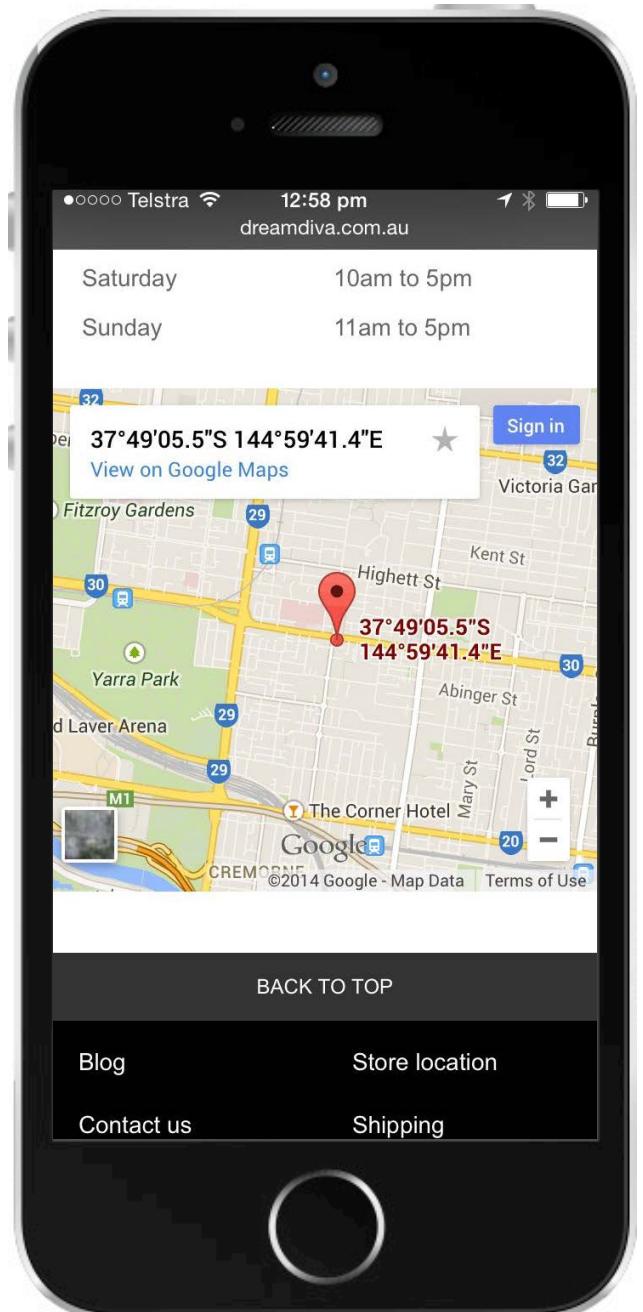






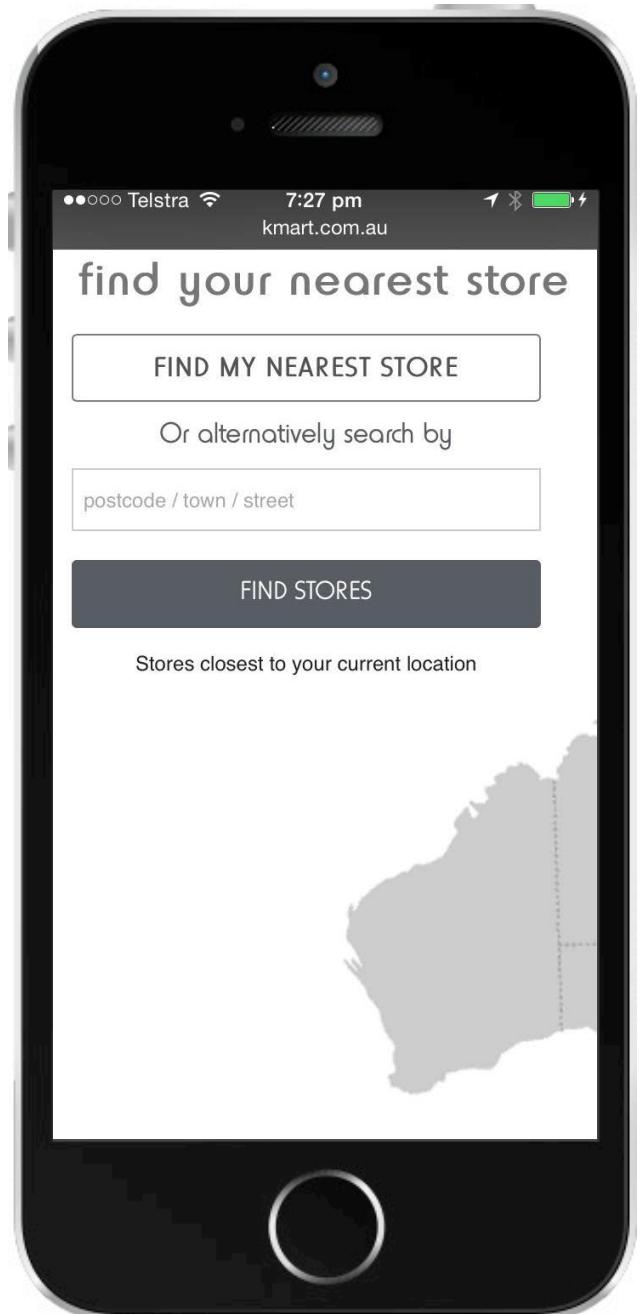
Images

Appropriate sizing



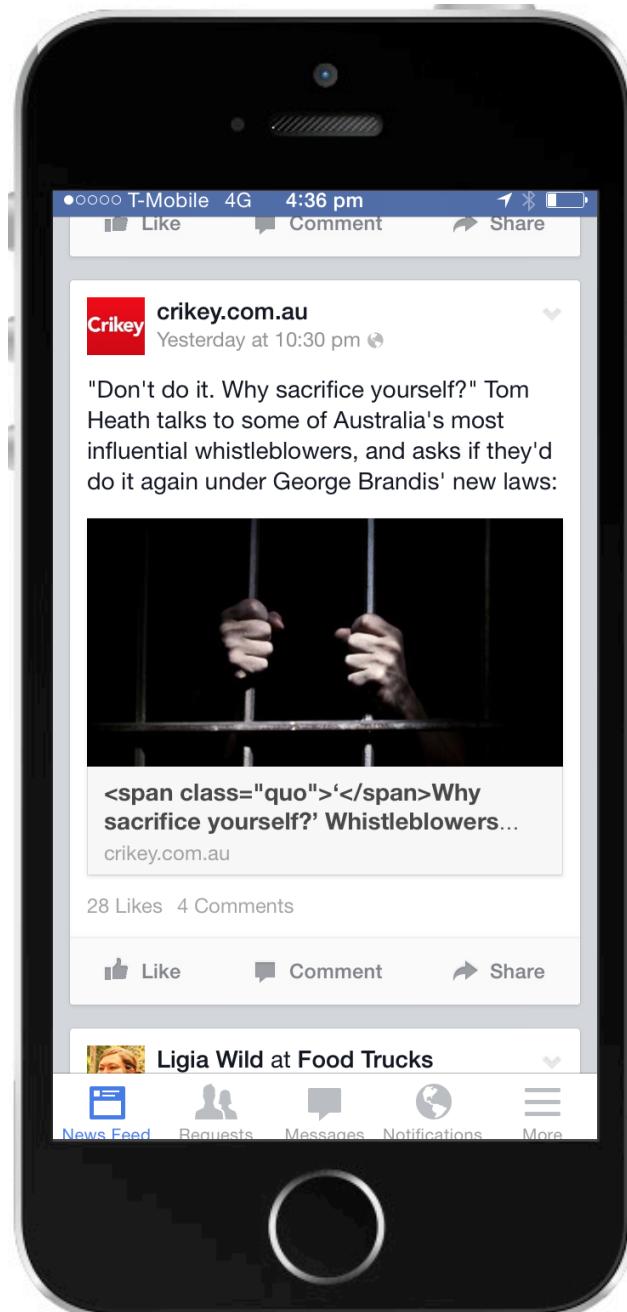
Maps

Where is it **exactly**?



Scrolling

At least you can scroll...



Testing

#TestAllTheThings



Testing

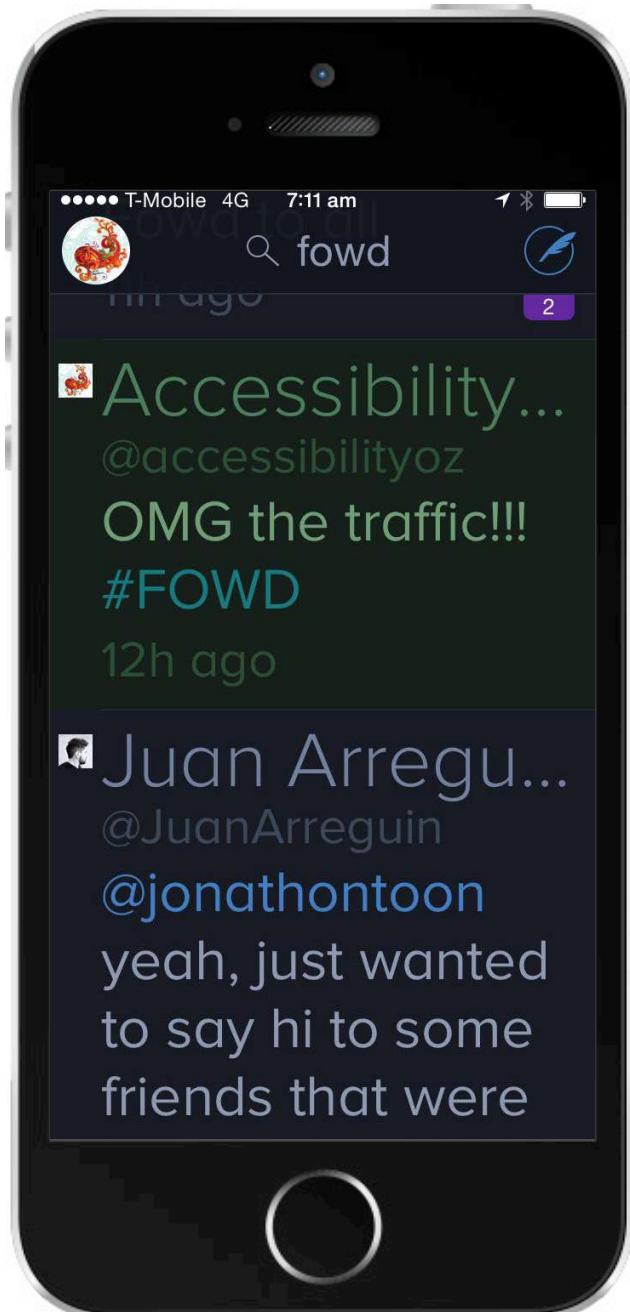
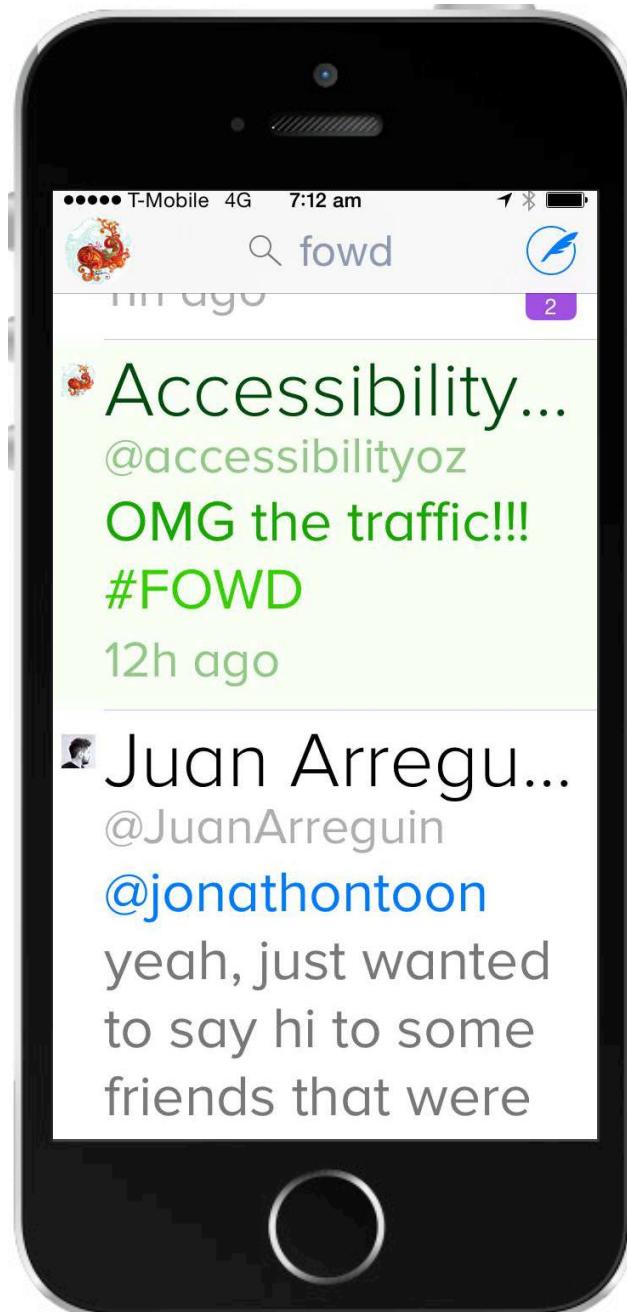
#TestAllTheThings



Correct implementations

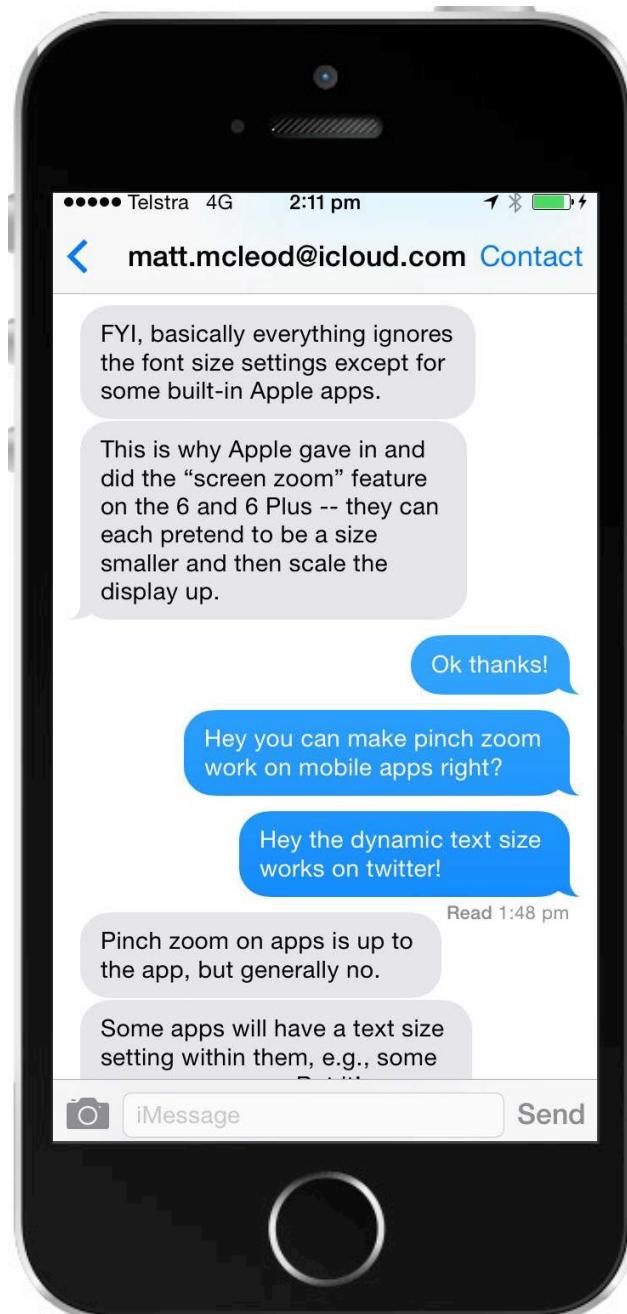
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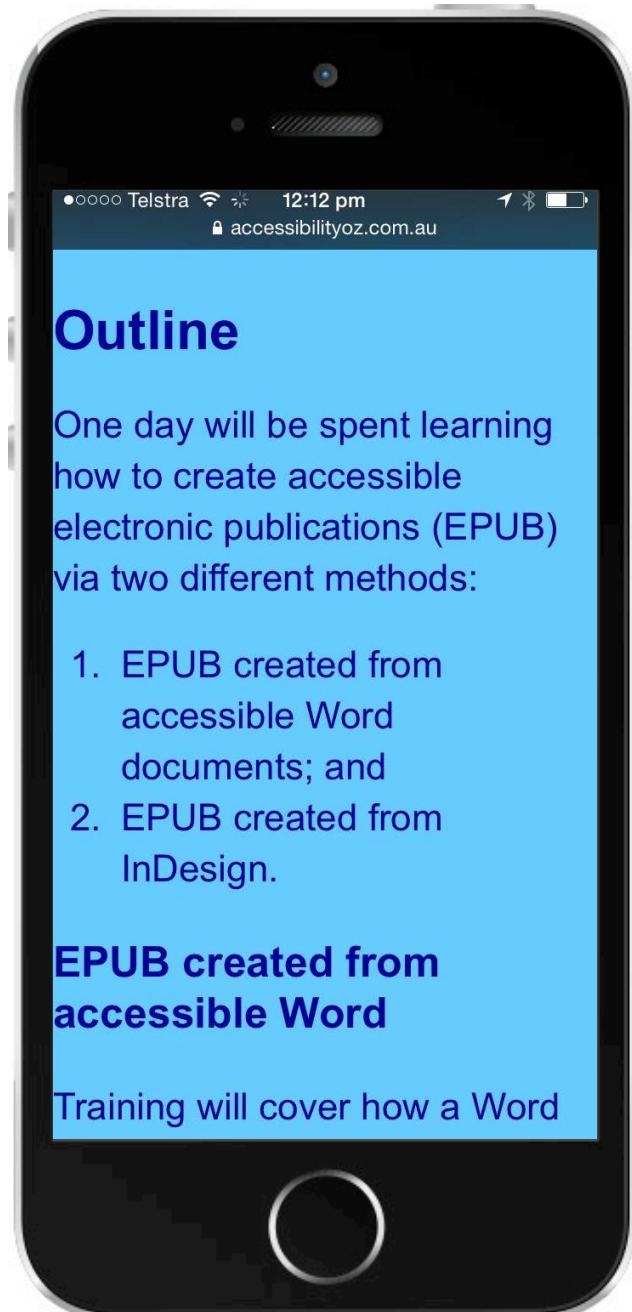
Text size

Size and colour support!



Text size

That's large
text!



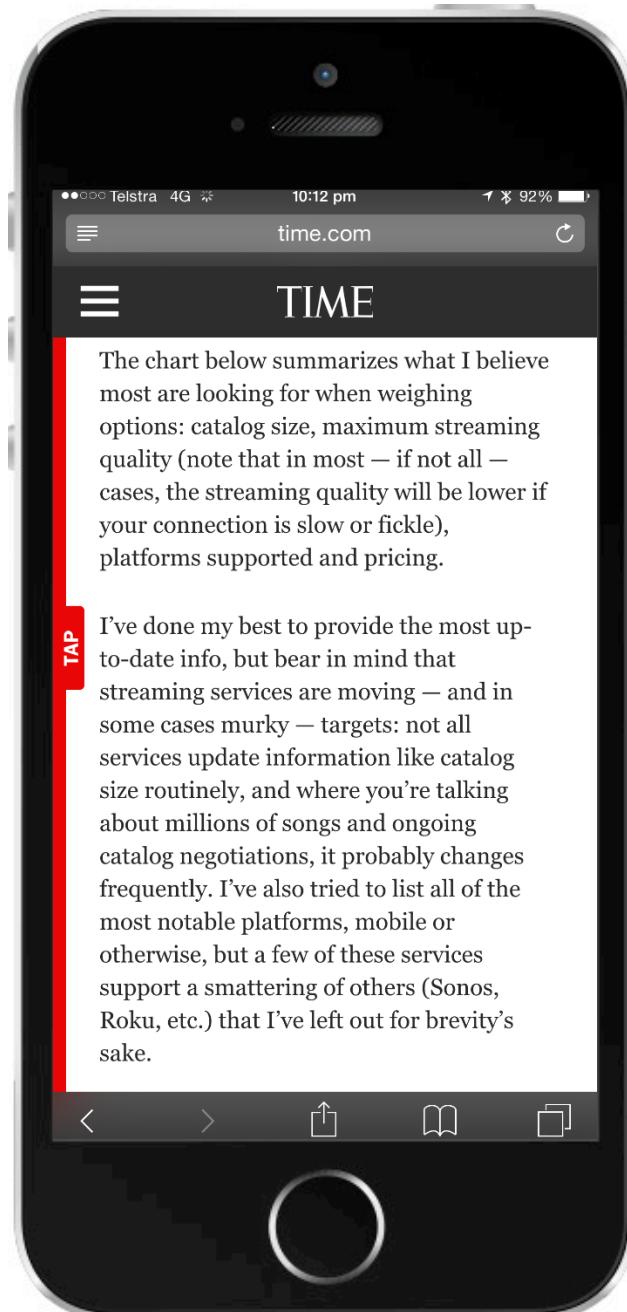
Text size

That's really
large text!



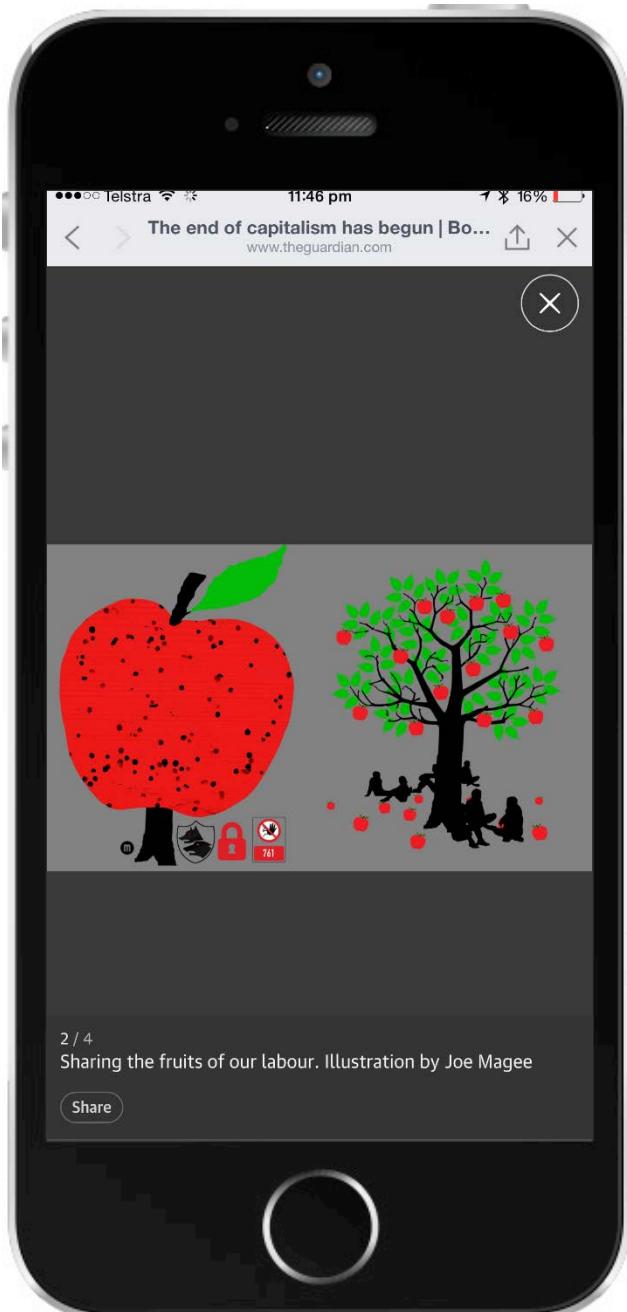
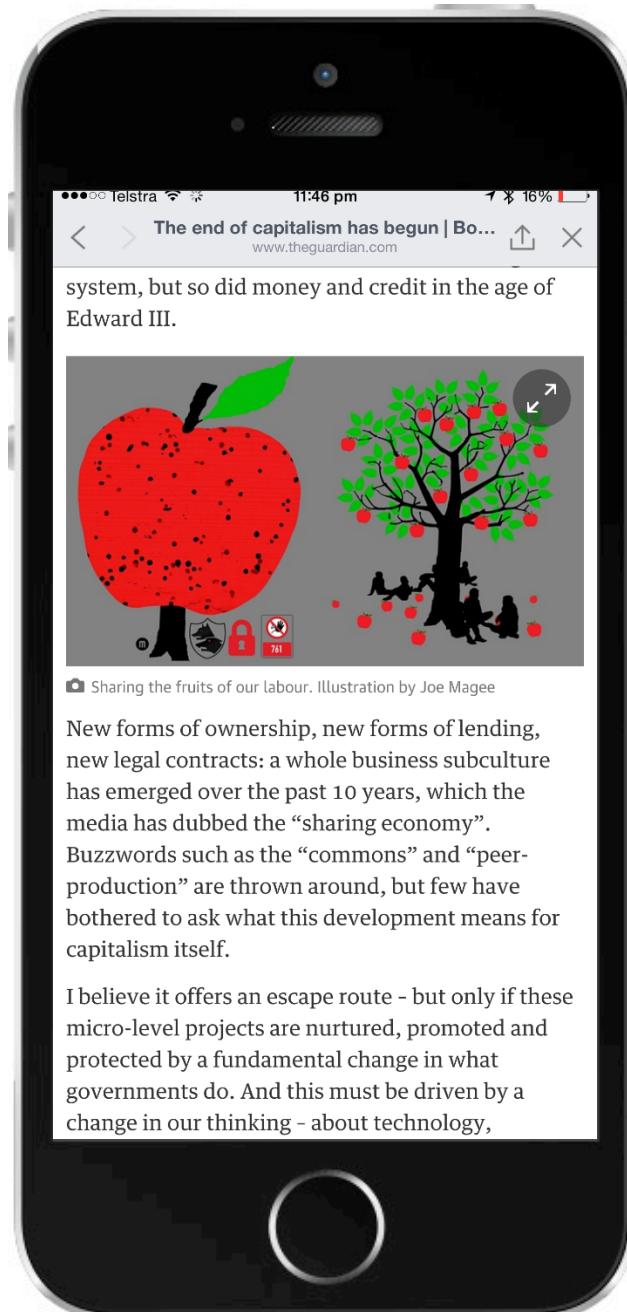
Functional zoom

That works!



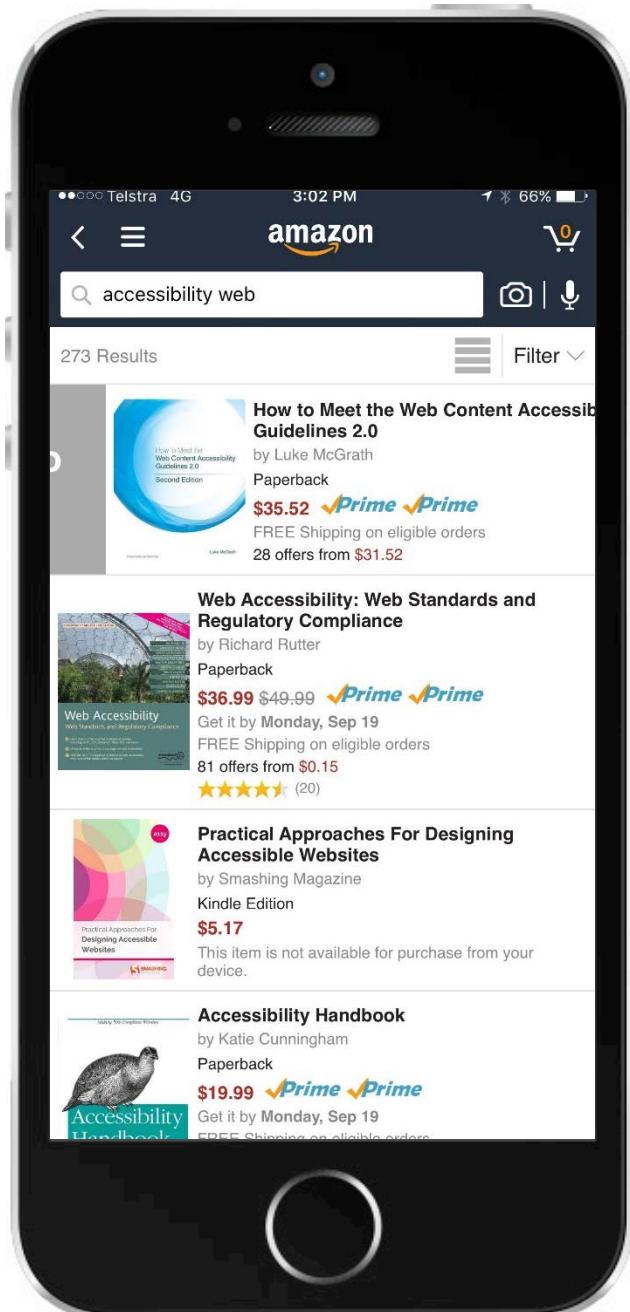
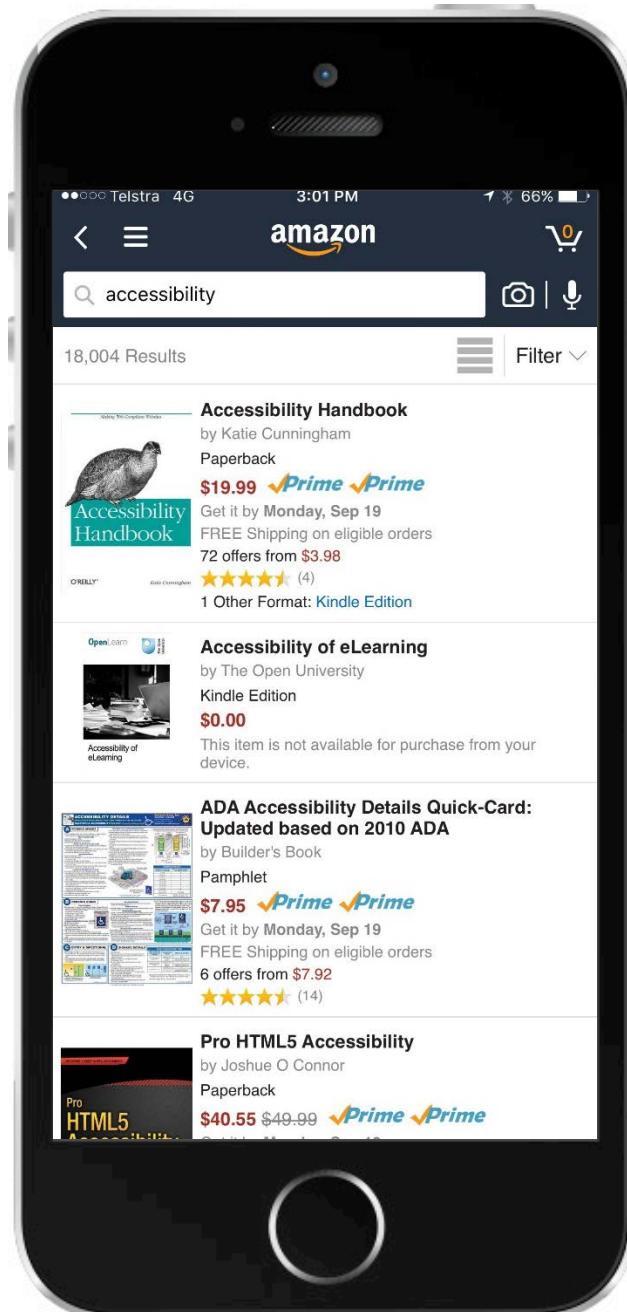
Indicating functionality

But wait... there's more!

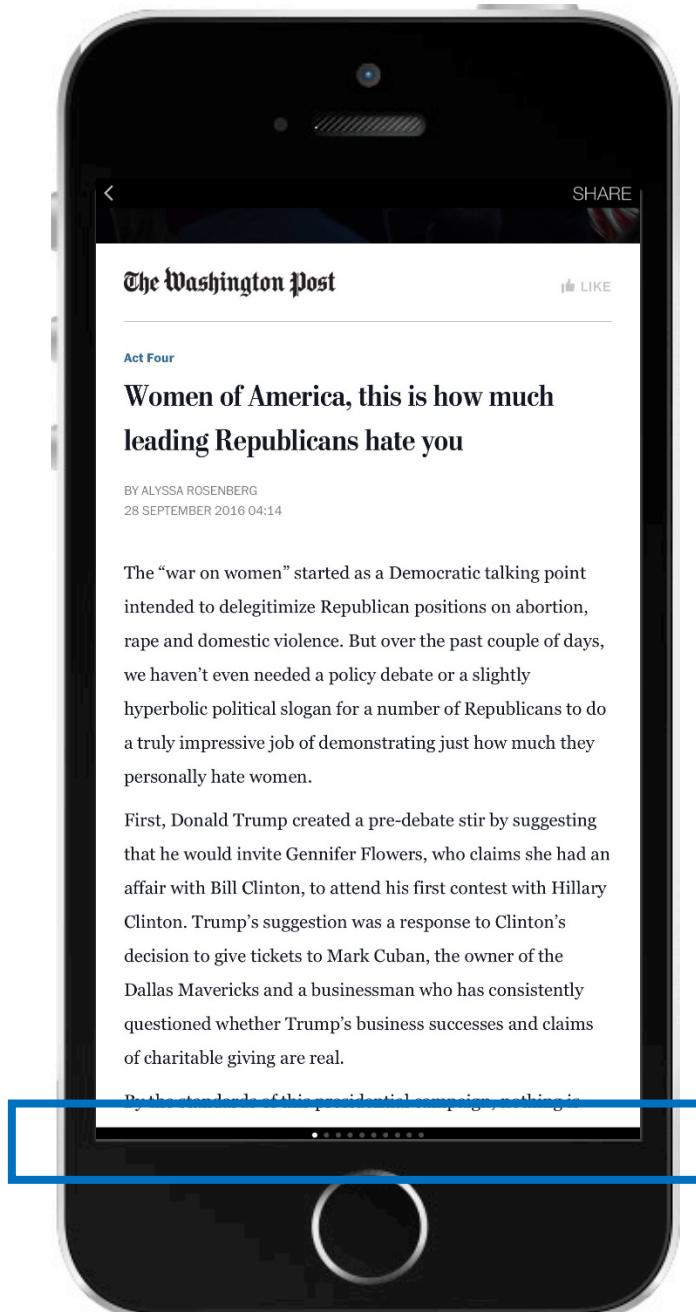


Indication

But wait...
there's more!



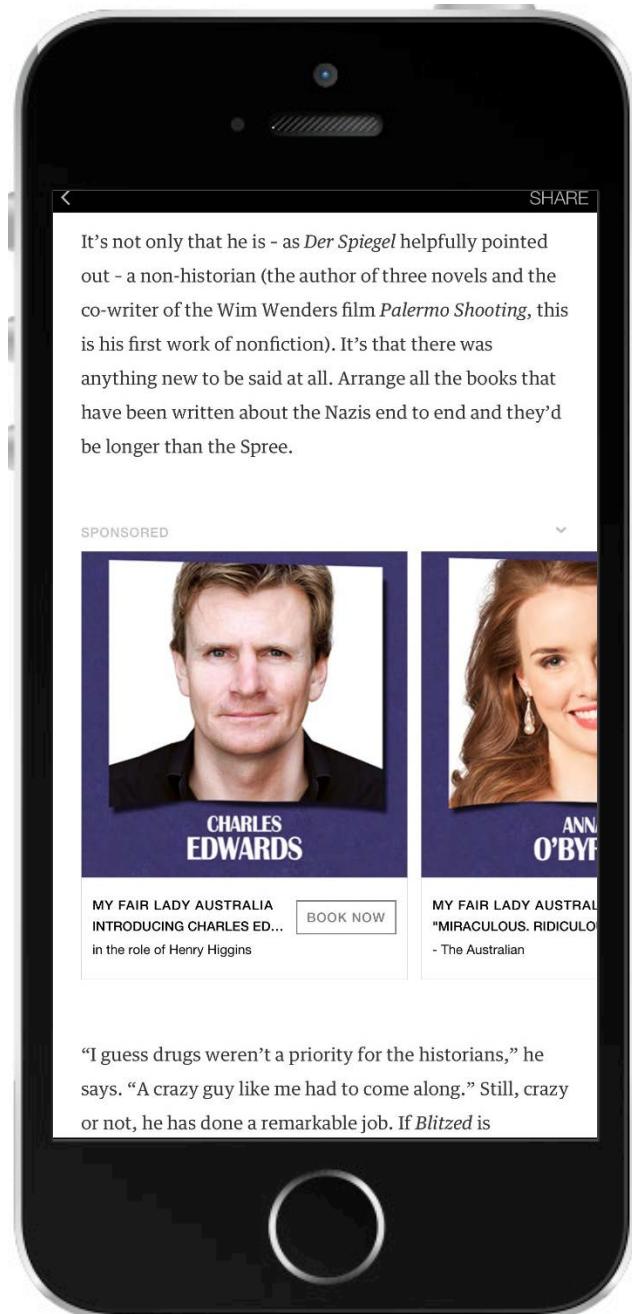
But wait there's
more!



Indicating functionality

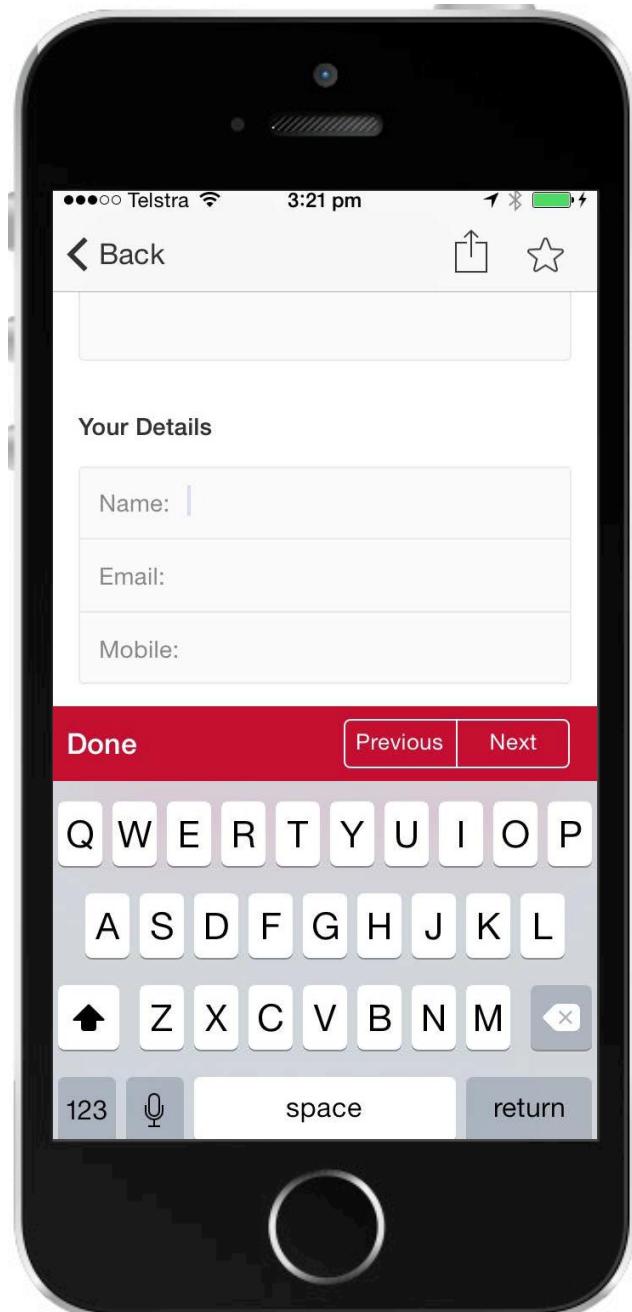
By the standards of this presidential campaign, nothing is

...



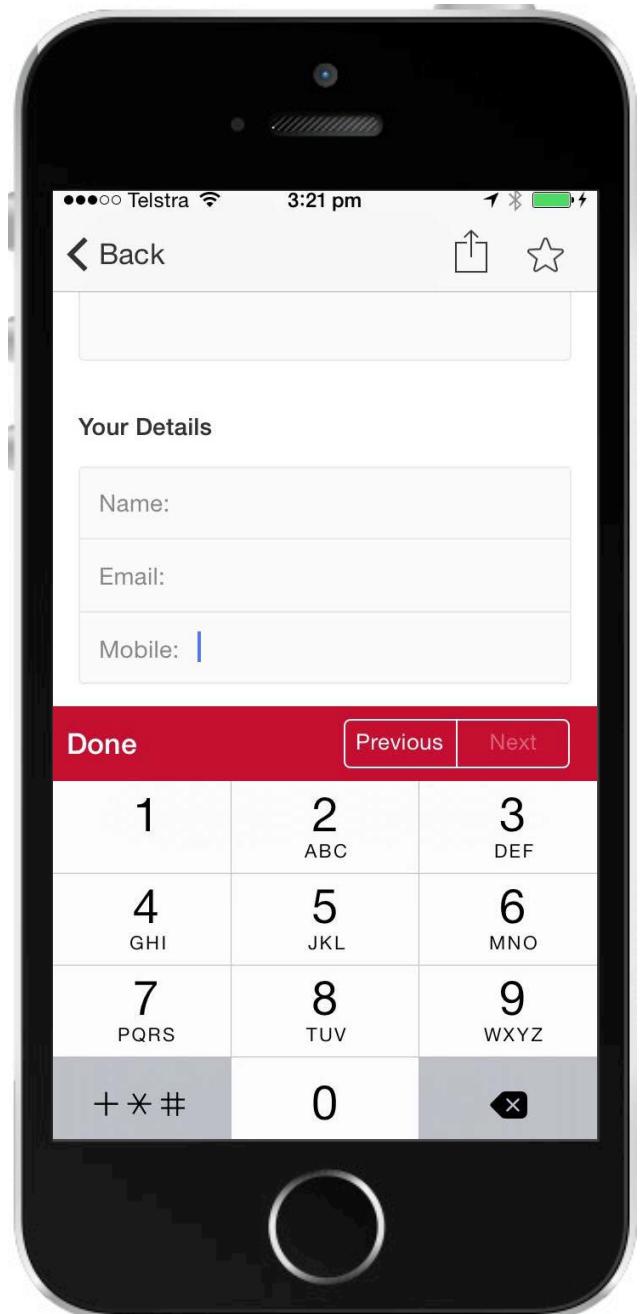
Indicating functionality

And more...



Keyboard

Dismiss and move on!



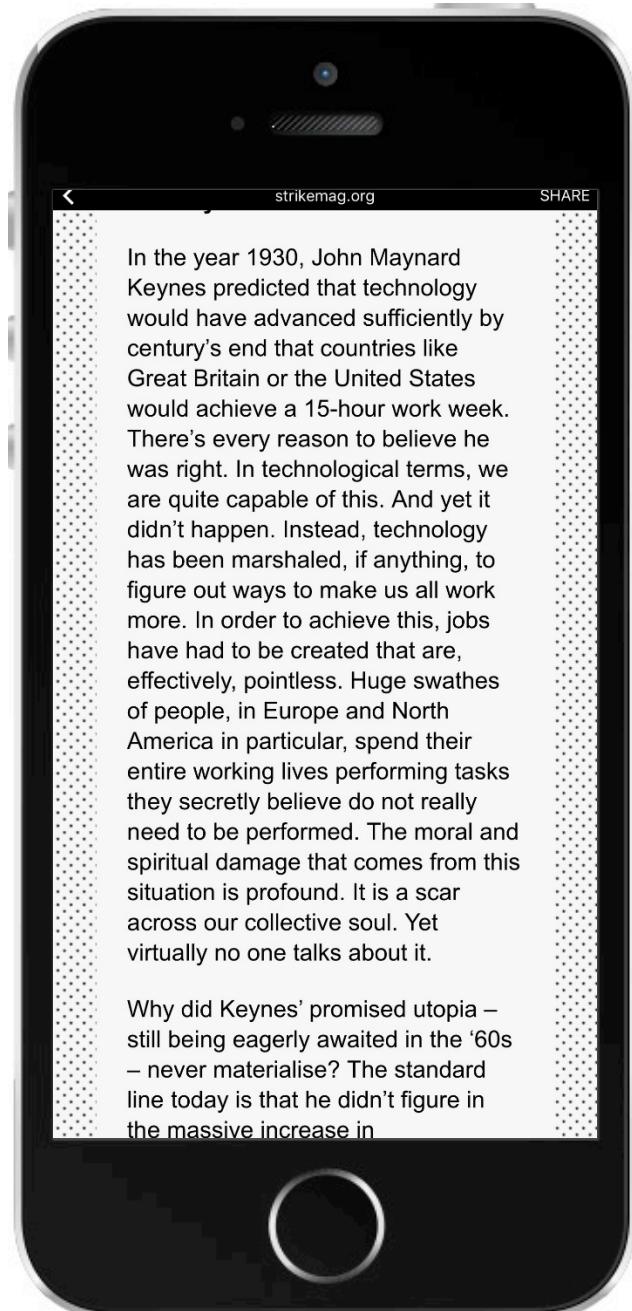
Keyboard

Correct inputs!



Colour and shape

Know exactly when you have booked



Column width

Width no more than 80 characters...

BBC Mobile accessibility guidelines

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

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AccessibilityOz

OzWiki: Accessibility Factsheets

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