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21 years' experience in the field of design, both as a Practitioner and Manager.



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Senior User Experience Consultant

12 years' in the design industry and eight of those years as a marketing professional.



creating digital experiences that transform and inspire



## The reality when building accessible apps

Dos and Don'ts

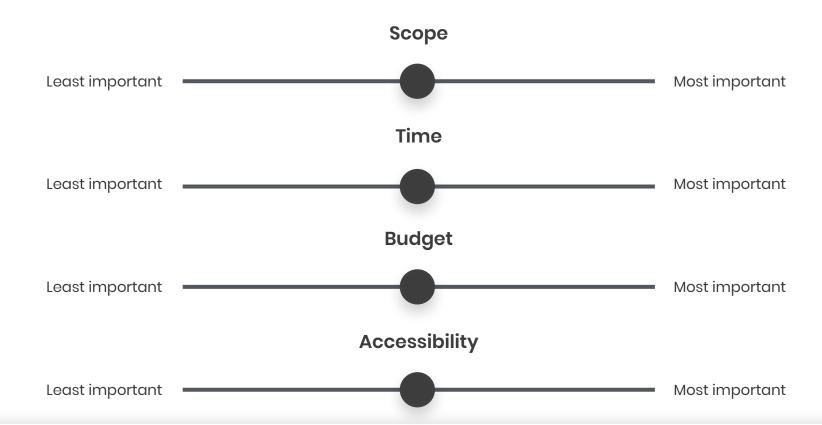
Resources





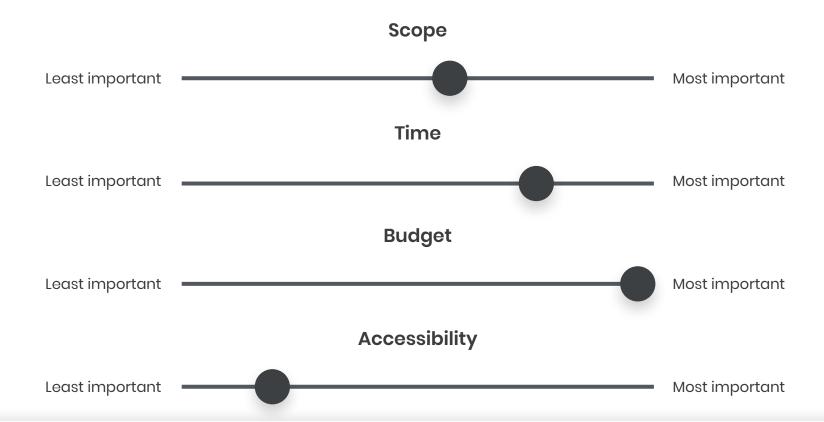
# The reality



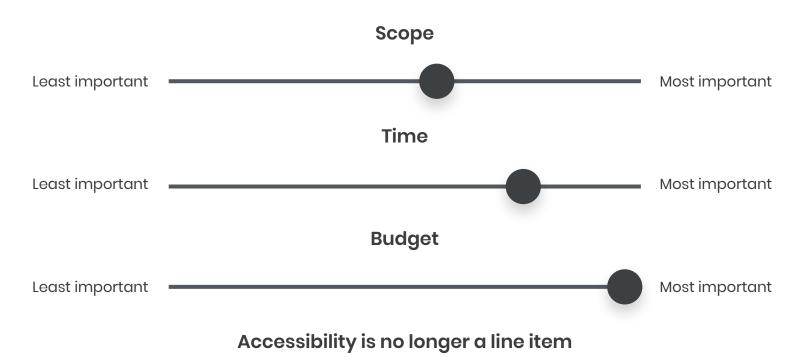














# The Dos and Don'ts

## DO

. . . . . . .

# Create your minimum accessible level



# Baseline accessibility acceptance criteria

- No autoplay /continuous (flashing speed slow)
- Touch target Android: 48x48 dp iOS: 44x44 pt
  - Sit 8dp away from another touch state
  - Labelled to allow for screen readers and assistive technology on all read parts of the interface.
- **Dynamic fonts** / adjusting containers
- Complimentary text and images groupings
- Image alt text

#### Colour contrast

- o Small text: at least 4.5:1 against its background
- Large text (at 14 pt bold/18 pt regular and up): at least 3:1
- Icons: at least 4.5:1 contrast
- Screens have been uploaded and checked via Chrome extension: Funkify

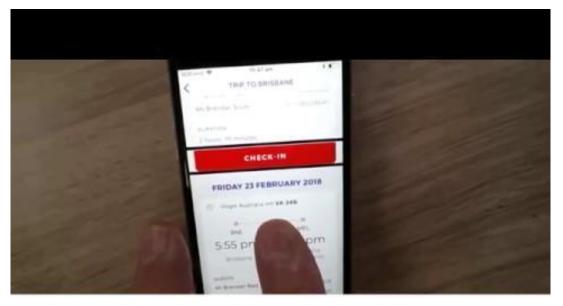


# DON'T

. . . . . . .

Assume baseline acceptance criteria will be used

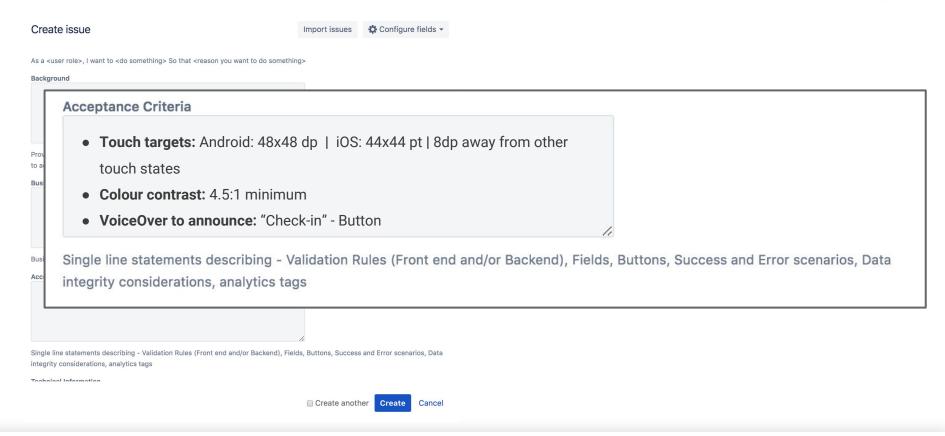




Participant: It doesn't say what time the check in is there

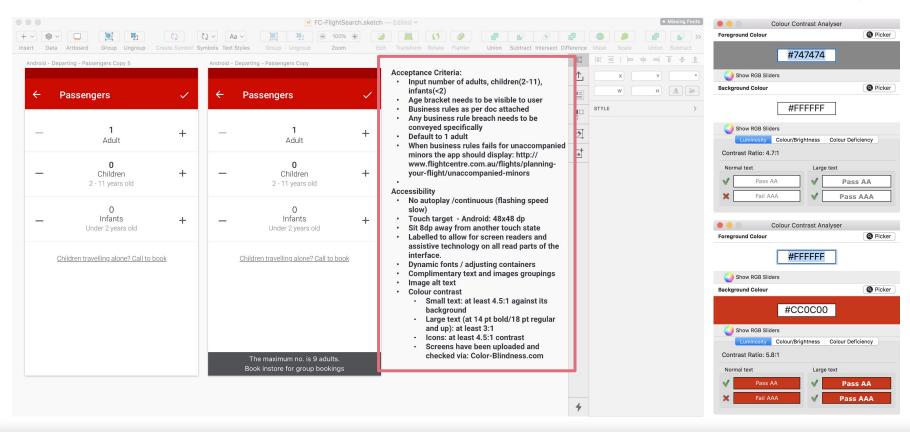
#### DON'T: Assume baseline acceptance criteria will be used





#### DON'T: Assume baseline acceptance criteria will be used







# DO

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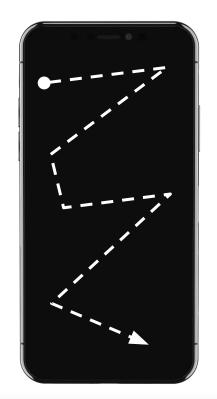
Test with a wide range of user types

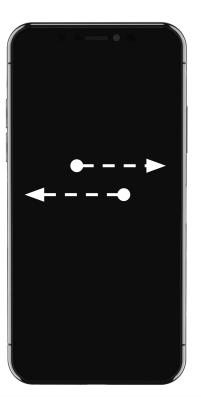






### An aha moment







# DON'T

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Shy away from challenging brand guidelines







# Custom font

Custom font

#### Why use system fonts:

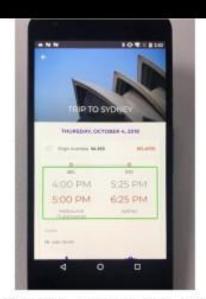
- Readability
- Optimised for smaller screens
- Trusted and tried rendering weights
- Dynamic text size support

## DO

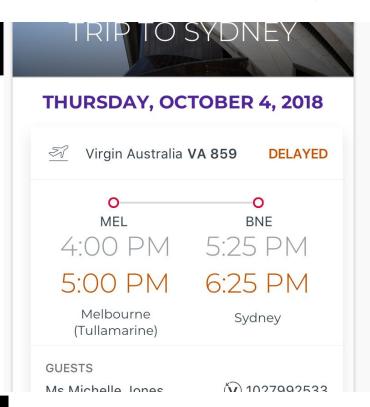
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Think of accessibility at a screen level





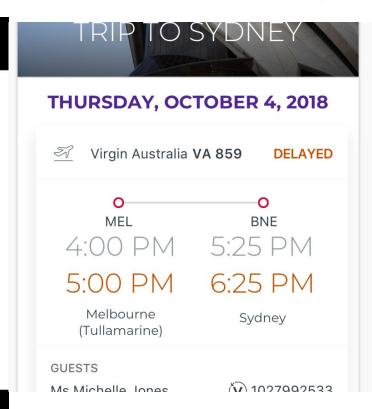
MEL SYD 4:00 PM, 5:25 PM, 5:00 PM, 6:25 PM.







estimated arrival will be at 6:25 PM.



# DON'T

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Let accessibility training slip with your team

## **Training hubs**

- Apple WWDC recordings and Tech Talks
  <a href="https://www.apple.com/au/accessibility/">https://www.apple.com/au/accessibility/</a>
- Android Guidelines:
  <a href="https://support.google.com/accessibility/android/">https://support.google.com/accessibility/android/</a>
- Web Content Accessibility Guidelines (WCAG) 2.1
  <a href="https://www.w3.org/TR/WCAG21/">https://www.w3.org/TR/WCAG21/</a>
- Apps for All
  <a href="https://www.appsforall.com.au/">https://www.appsforall.com.au/</a>



# Gestures are everything

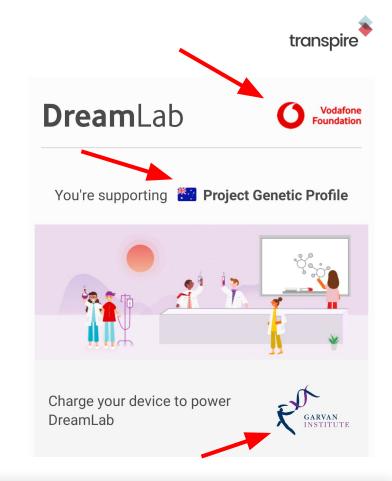
- Without shortcuts, you're in trouble!
- Phone form factor changes accessibility gestures (e.g. iPhone's removal of physical home button)
- Users use diverse gestures to suit their needs (e.g. two finger scrub, rotor, curtains)

DO

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Discuss and disagree

## To announce or not to announce... That is the question!







# Resources



#### Resources



Appsforall.com.au

Tips for all members of a product team on what their responsibility is.



**Colour Contrast Tools for designers** 

**Colour Contrast Analyzer** 

**Funkify Chrome** extension



**Platform** Guidelines

**Google Material** Guidelines

<u>Apple Human</u> **Centred Guidelines** 



**Accessibility scanner** <u>app</u>

> For Android, scans your app and tells you all the accessibility issues.



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# Final Takeaways



## **Final** takeaways

- Start somewhere building an accessible app is an evolution.
- It's OK to get it wrong. Good, better, best.
- Showcase the impact being accessible has.
- Don't underestimate the benefits of grouping and going the extra mile.
- Keep up the conversation.







Do the best you can until you know better. Then when you know better, do better.

Maya Angelou

### Thank you

- y amir\_ansari
- y kira\_eviston
- y transpire

