

# - WCAG 2.1 - What's it all about?

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@RavenAlly

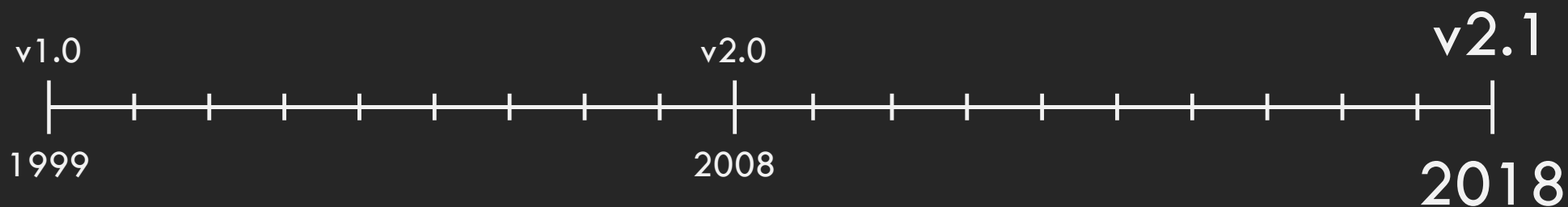
intopia  
@Intopia

Digital Accessibility  
Sensei

# W3C

## Web Content

### Accessibility Guidelines



WCAG 2.1  
=  
WCAG 2.0  
+  
17 new success criteria

# Level A

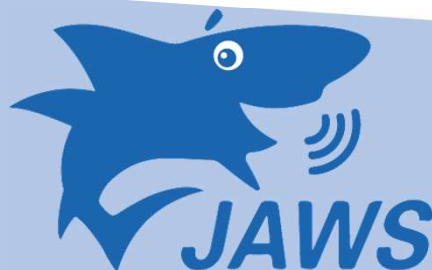
## (5 new success criteria)

## **2.1.4 Character Key Shortcuts**

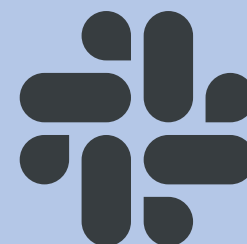
Prevent keyboard shortcut  
clashes with screen readers



**Q:** Mark as read  
**U:** Mark as unread  
**N:** Create new item  
**F:** Forward email  
**E:** Move to Archive  
**R:** Reply to email



**Q:** Main region  
**U:** Next unvisited link  
**N:** Next non-link text  
**F:** Next form control  
**E:** Next edit box  
**R:** Next region  
**M:** Next frame  
**V:** Next visited link  
**A:** Next radio button  
**1-6:** Next heading #



**E:** View emojis on call  
**R:** Toggle channel read  
**M:** Toggle call mute  
**V:** Toggle call video  
**A:** Show call invites  
**1-6:** Select emoji on call

**Must support at least one of:**

Turn off

Remap

Active only on focus

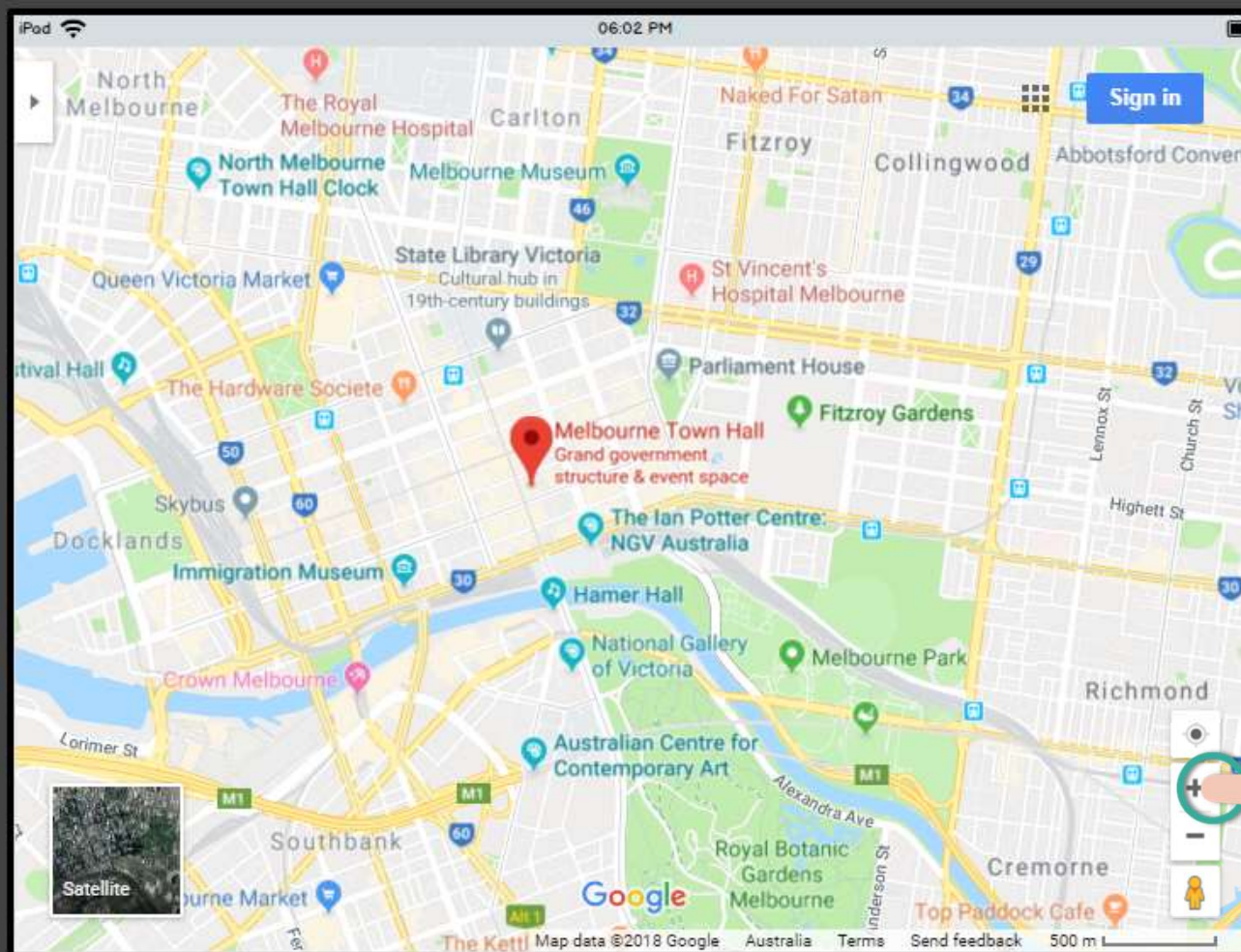
## 2.5.1 Pointer Gestures

Define simple pointer  
gestures





Pinch =  
complex



Tap =  
simple



# Simple gestures – one finger

Tap

Double-tap

Long-press

# Complex gestures

Swipe

Tap & drag (slider)

Tracing a path

Pinch zoom

One finger hold, second finger tap

Multi-finger tap or swipe

# Exceptions!

Essential gestures

User agent gestures

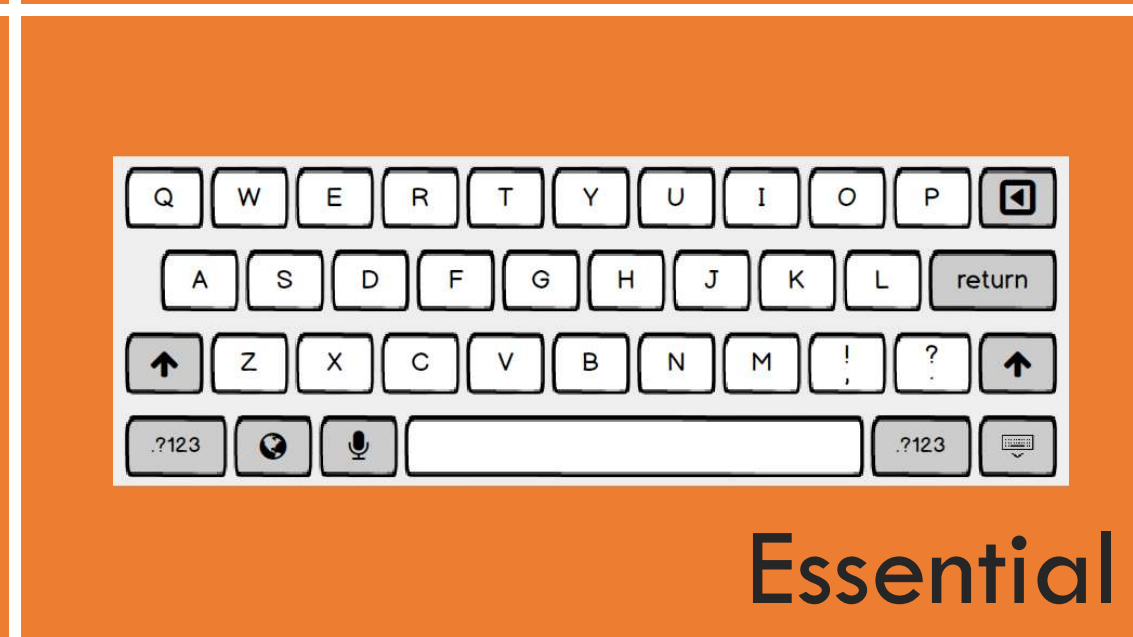
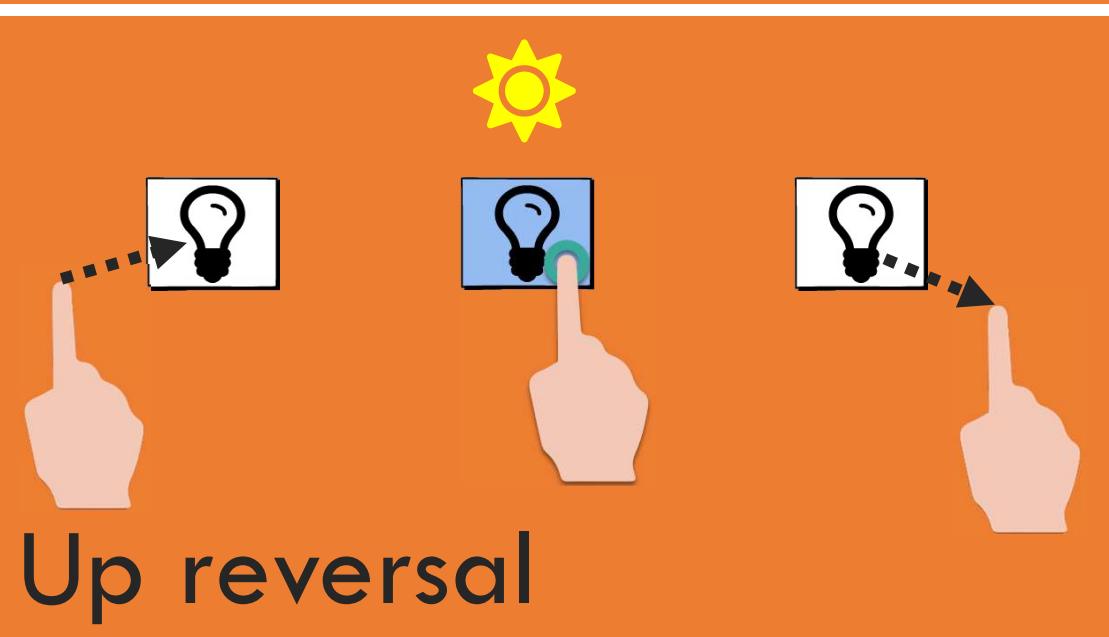
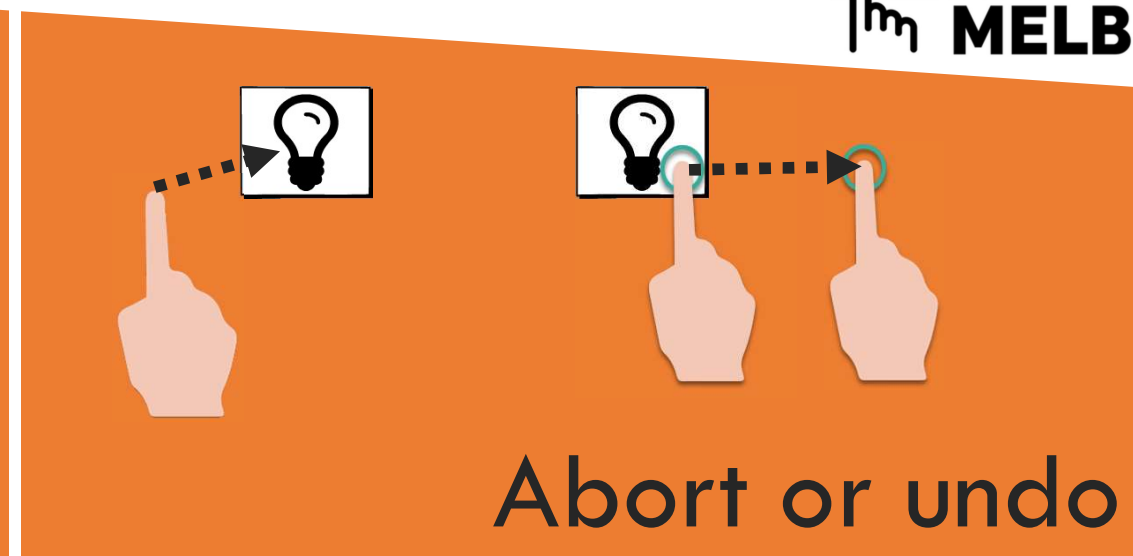
(e.g. swipe to scroll browser)

Assistive tech gestures

(e.g. VoiceOver, TalkBack)

## **2.5.2 Pointer Cancellation**

Enable users to cancel  
pointer gestures





## 2.5.3 Label in Name

Start element labels with  
(unbroken) on-screen content





Add to cart, button  
Add to cart, button  
Add to cart, button  
Add to cart, button  
Add to cart, button

 Add to cart

 Add to cart

 Add to cart

 Add to cart

 Add to cart



Click Add to cart



Which one?

Choose 3








 Add to cart

 Add to cart

 Add to cart

 Add to cart

 Add to cart



Add apple to cart, button  
Add banana to cart, button  
Add cherries to cart, button  
Add durian to cart, button  
Add eggs to cart, button




Click Add to cart





What?






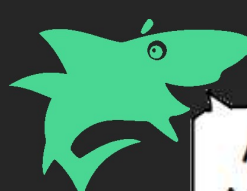
 Add to cart

 Add to cart

 Add to cart

 Add to cart

 Add to cart

 Add to cart, apple, button  
Add to cart, banana, button  
Add to cart, cherries, button  
Add to cart, durian, button  
Add to cart, eggs, button



Click Add to cart

 Which one?

Choose 3



## **2.5.4 Motion Actuation**

Provide alternatives to  
motion functions

# ✗ Tilt maze – No alternative

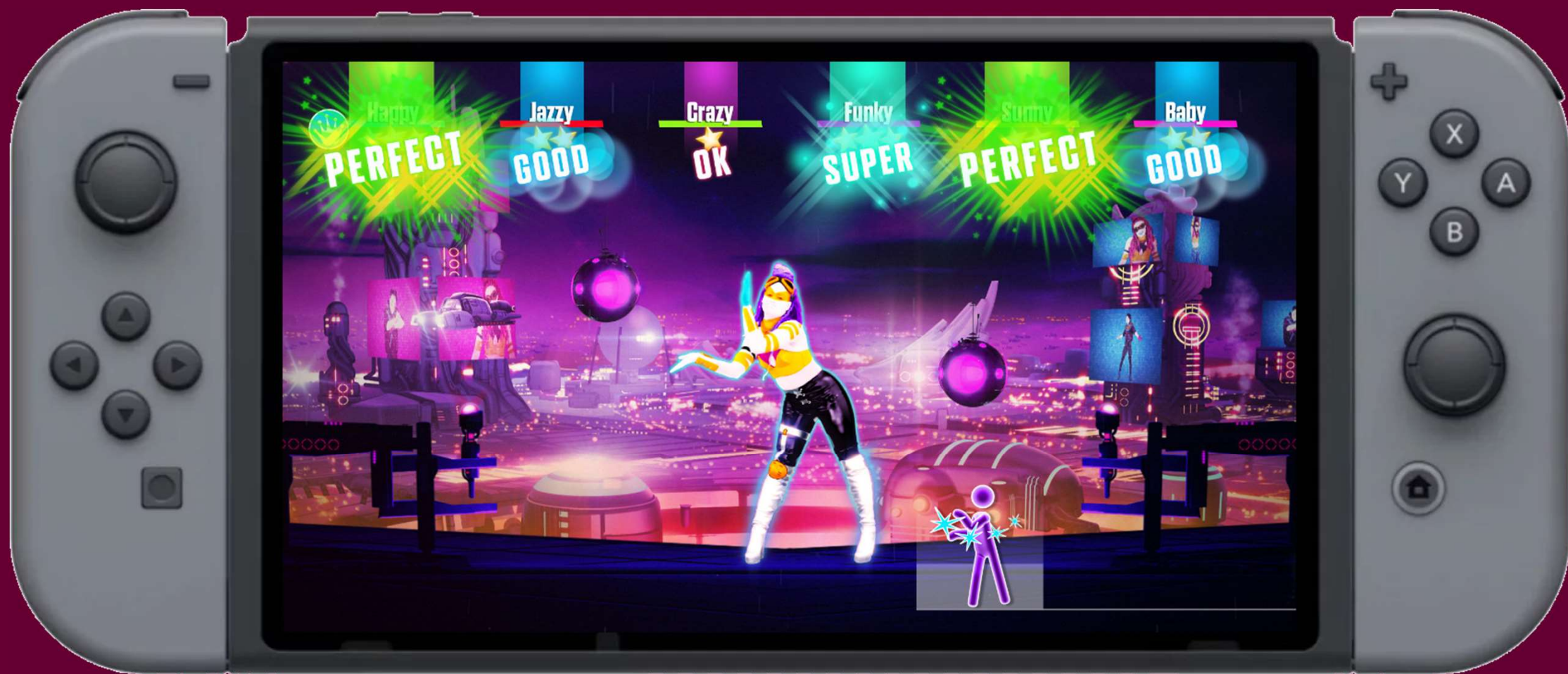


# ✓ Steering – Tilt optional





# Exception 1 – Essential function



# Exception 2 - Supported Interface



# Level AA

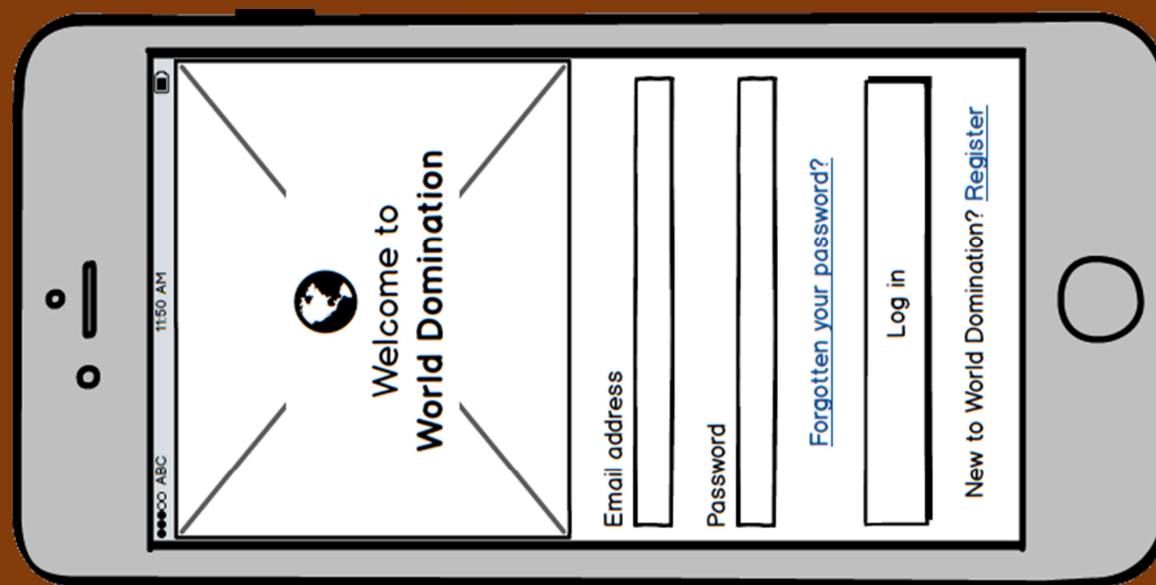
## (7 new success criteria)



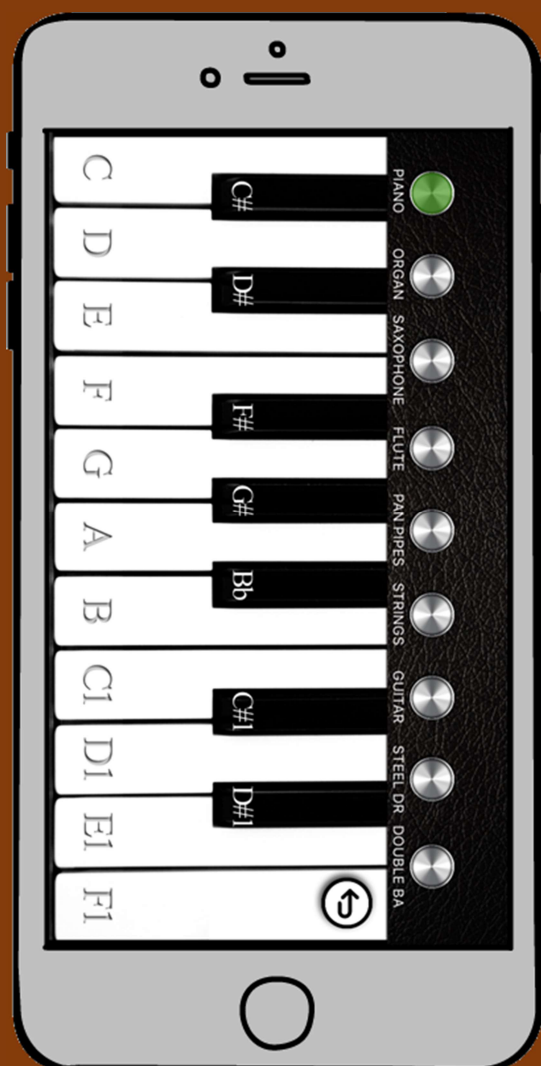
## 1.3.4

### Orientation

Don't make users  
read like this







**Exception!**  
Single  
orientation is  
essential

## 1.3.5 Identify Input Purpose

Add metadata to forms  
to enable autofill

## Personal

name  
 honorific-prefix  
 given-name  
 additional-name  
 family-name  
 honorific-suffix  
 nickname  
 bday  
 bday-day  
 bday-month  
 bday-year  
 sex  
 url  
 photo  
 language

## Address

street-address  
 address-line1  
 address-line2  
 address-line3  
 address-level4  
 address-level3  
 address-level2  
 address-level1  
 country  
 country-name  
 postal-code  
  
Work  
 organization-title  
 organization

## Contact

tel  
 tel-country-code  
 tel-national  
 tel-area-code  
 tel-local  
 tel-local-prefix  
 tel-local-suffix  
 tel-extension  
 email  
 impp  
  
System  
 username  
 new-password  
 current-password

## Payment

cc-name  
 cc-given-name  
 cc-additional-name  
 cc-family-name  
 cc-number  
 cc-exp  
 cc-exp-month  
 cc-exp-year  
 cc-csc  
 cc-type  
 transaction-currency  
 transaction-amount



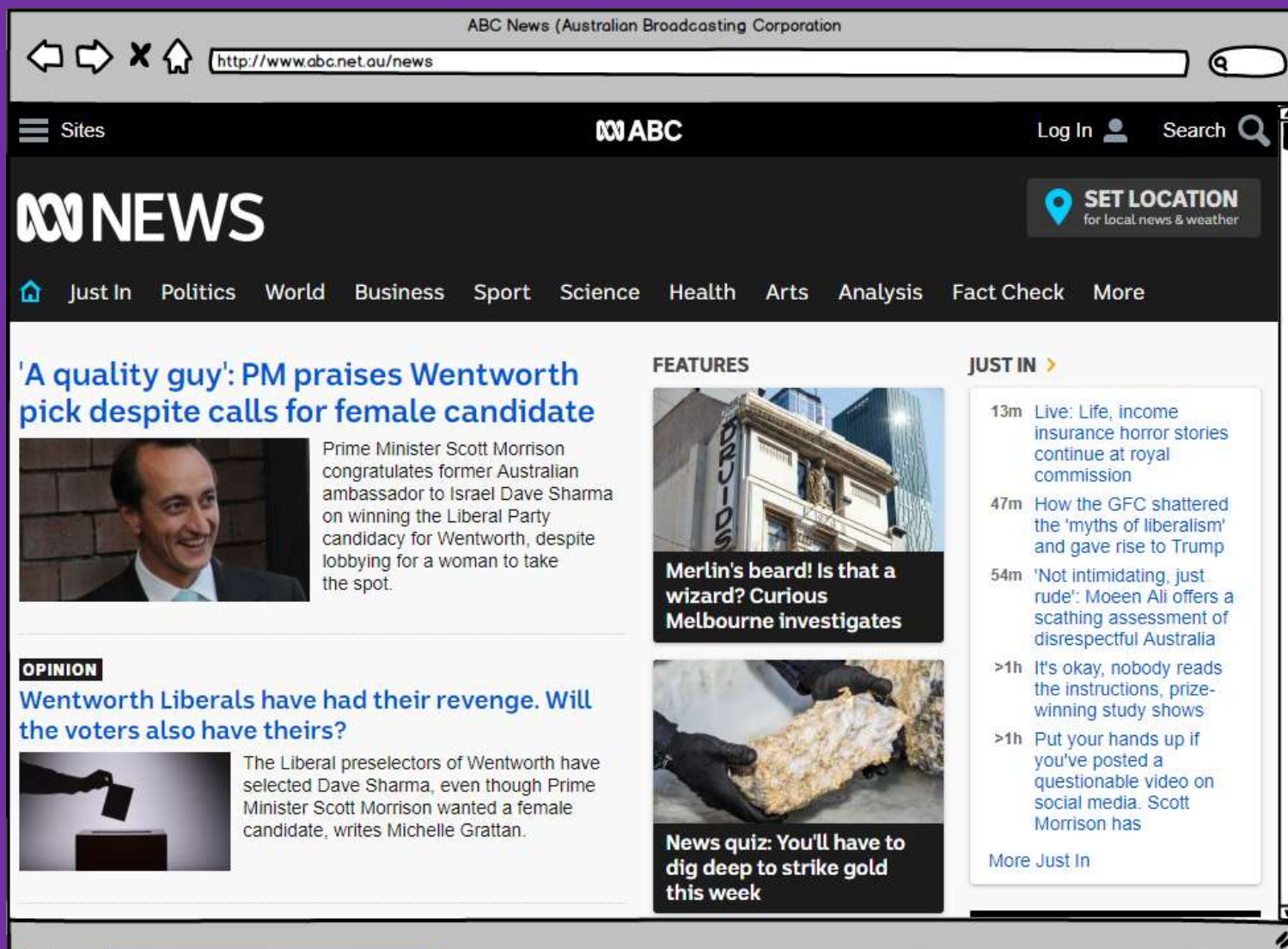
```
<input type="email"
autocomplete="home email" />
```

```
<input type="password"
autocomplete="off" />
```

# 1.4.10 Reflow

## Build responsive sites





Fixed-width  
desktop site

100% zoom

One scrollbar



Fixed-width  
desktop site

400% zoom

Two scrollbars





Responsive  
mobile site

400% zoom

One scrollbar



# Exceptions!

Data tables

Images/diagrams/maps

Video/games

Presentations

## 1.4.11 Non-Text Contrast

Make graphics and  
UI elements really pop

# All about you

Name

⚠ Enter your name

☒ I agree

Submit

Cancel

Headings = 3.0 : 1

Text = 4.5 : 1

Element outlines = 3.0 : 1

Icons/graphics = 3.0 : 1

State styles = 3.0 : 1

## 1.4.12 Text Spacing

Text shouldn't truncate,  
overlap, or overrun when  
users increase spacing

It's a grand old flag,  
It's a high flying flag,

Letters (x 0.12)

It's a grand old flag,  
It's a high flying flag,

See the Bombers fly up, up!  
To win the premiership flag

Words (x 0.16)

See the Bombers fly up, up!  
To win the premiership flag.

We are the Navy Blues,  
We are the old dark Navy Blues.

Lines (x 1.5)

We are the Navy Blues,  
We are the old dark Navy Blues.

Good old Collingwood forever,  
we know how to play the game.  
Side by side we stick together,  
to uphold The Magpies name.

Paragraphs (x 2)

Good old Collingwood forever,  
we know how to play the game.  
Side by side we stick together,  
to uphold The Magpies name.



## **1.4.13 Content on Hover or Focus**

**Make tooltips and  
submenus more usable**

 Bank of A11y

Personal Business Corporate About us

 Bank of A11y

**Personal** Business Corporate About us

Personal home >  
Banking  
Loans  
Insurance  
Superannuation  
Investments  
Travel and International >  
Life Moments

 Bank of A11y

**Personal** Business Corporate About us

# Dismissable

CVV  [What's a CVV?](#)



CVV  [What's a CVV?](#)



CVV  [What's a CVV?](#)

# Hoverable

 Bank of A11y

**Personal** Business Corporate About us

- Personal home** >
- Banking
- Loans
- Insurance
- Superannuation
- Investments
- Travel and International >
- Life Moments

It's a 3-digit number on the back of your card.



CVV

[What's a CVV?](#)



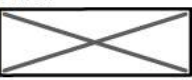
# Persistent

 Bank of A11y

**Personal** Business Corporate About us

- Personal home** >
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- Insurance
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- Investments
- Travel and International >
- Life Moments

It's a 3-digit number on the back of your card.



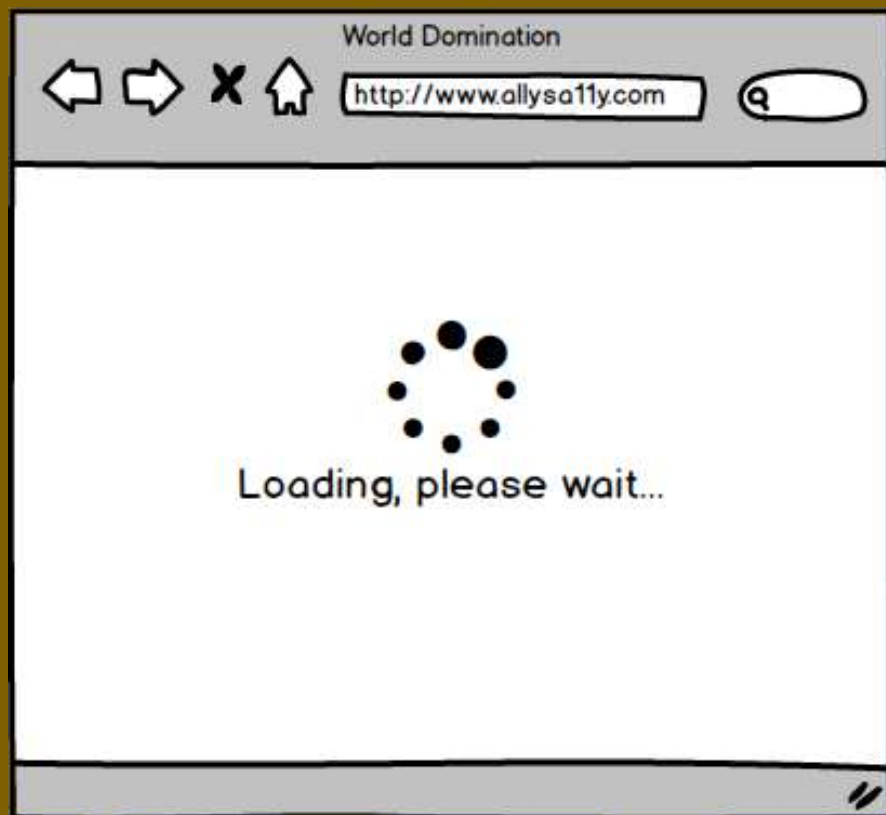
CVV

[What's a CVV?](#)



## **4.1.3 Status Messages**

Mark up status messages  
for assistive technology



```
<span role="status">  
  Loading, please  
  wait...</span>
```

# Level of urgency

**Assertive**

**Polite**

**Off**

Alert

Status

Marquee

Log

Timer

# Bootstrap uses role="alert"

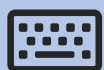
**Holy guacamole!** You can't dominate the world like *that*.



```
<div class="alert alert-warning alert-dismissible fade show" role="alert">  
  <strong>Holy guacamole!</strong> You can't dominate the world like <em>that</em>.  
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">  
    <span aria-hidden="true">&times;</span>  
  </button>  
</div>
```



Keyboard  
shortcuts



Simple  
gestures



Pointer  
cancellation



Speech-  
friendly  
labels



Motion  
alternative

Orientation



Metadata



Responsive



Non-text  
contrast



Text  
spacing



Hover /  
focus  
behaviour



Mark up  
status  
messages



# Get accessible!

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intopia  
@Intopia

Digital Accessibility  
Sensei