Adapting to Reality



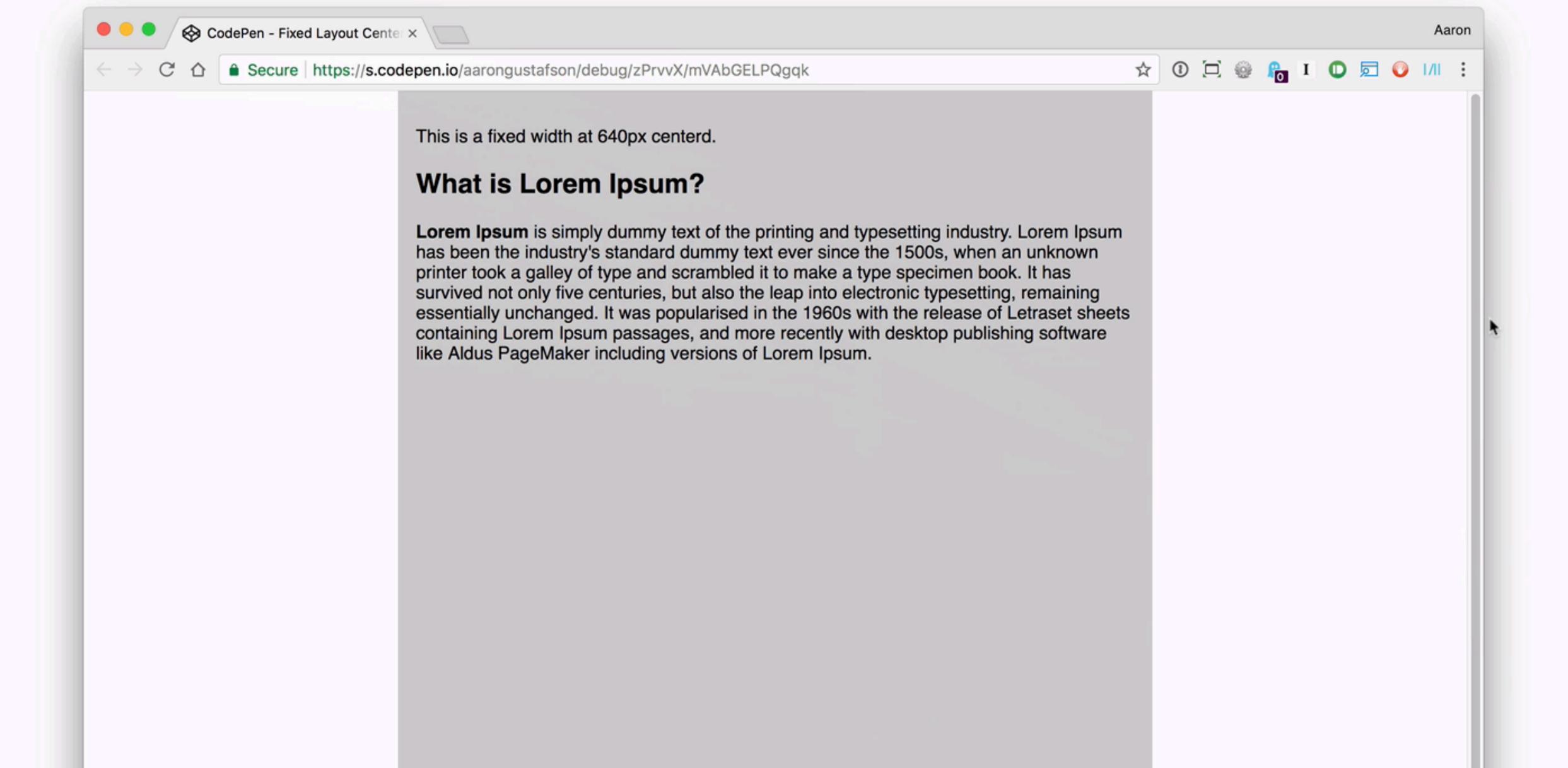
Web design & development is hard

In the beginning...



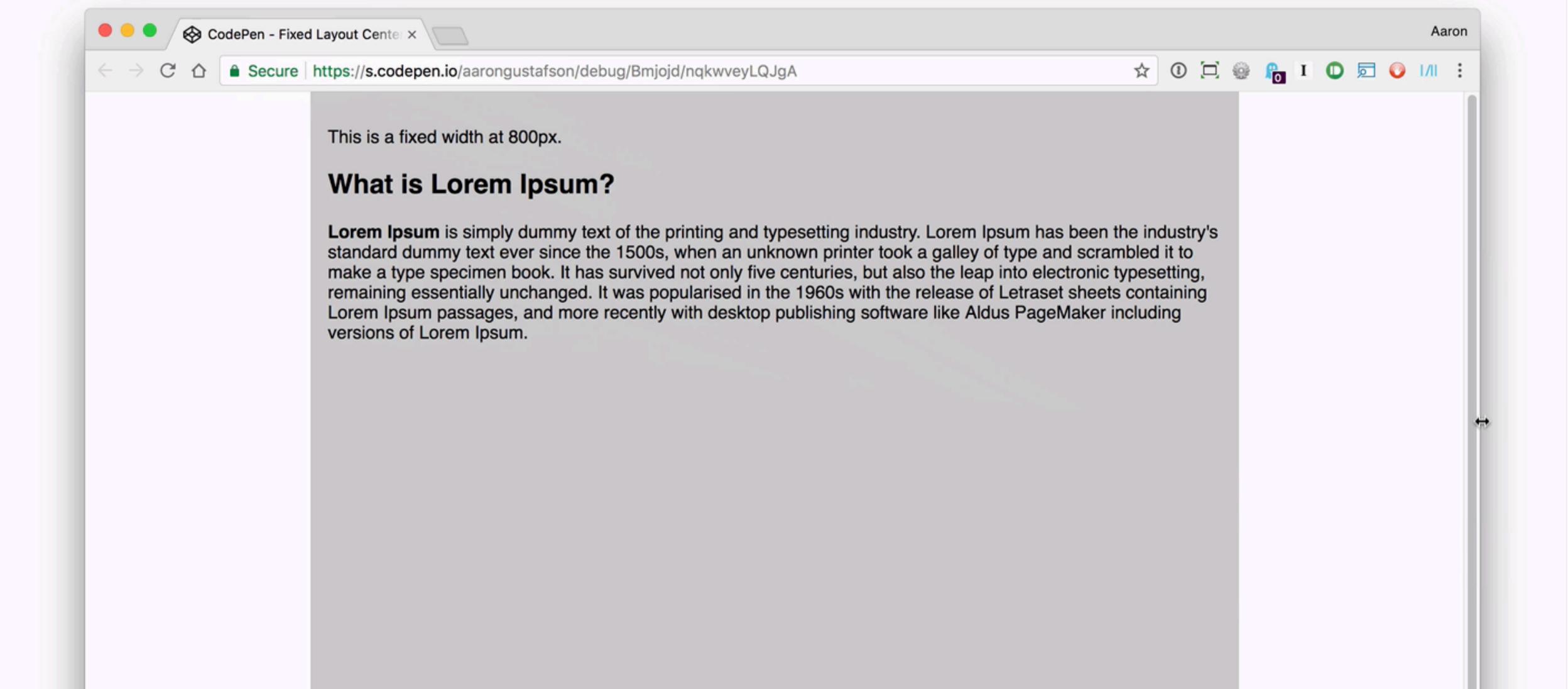


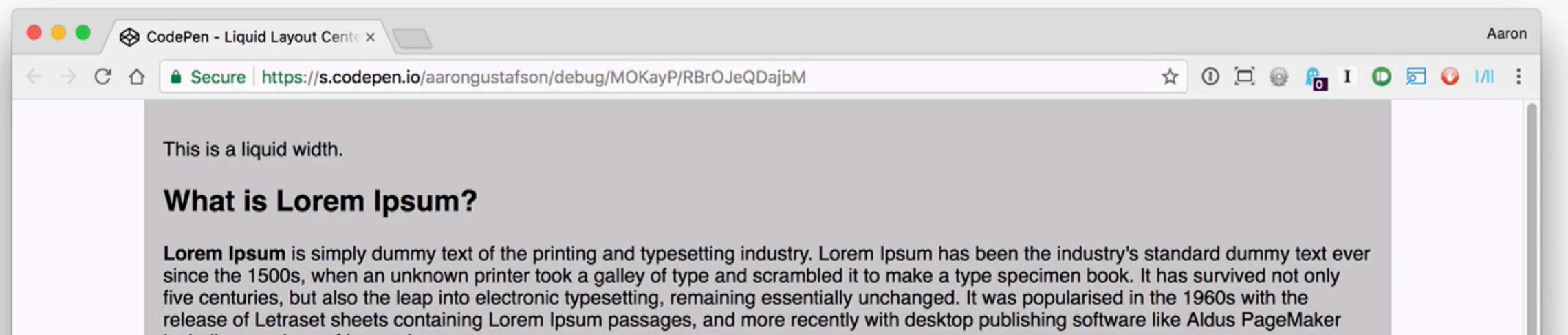
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



Ok, we can go a little larger





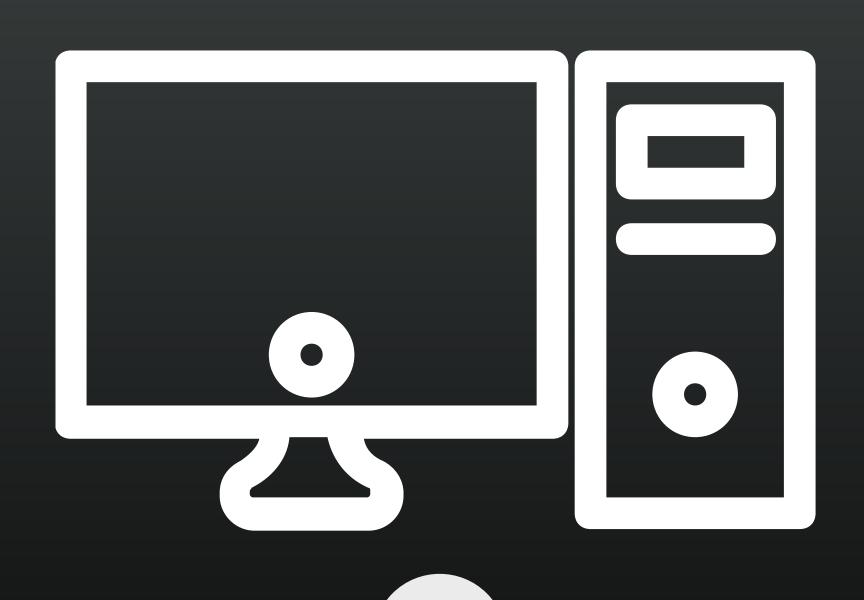


including versions of Lorem Ipsum.

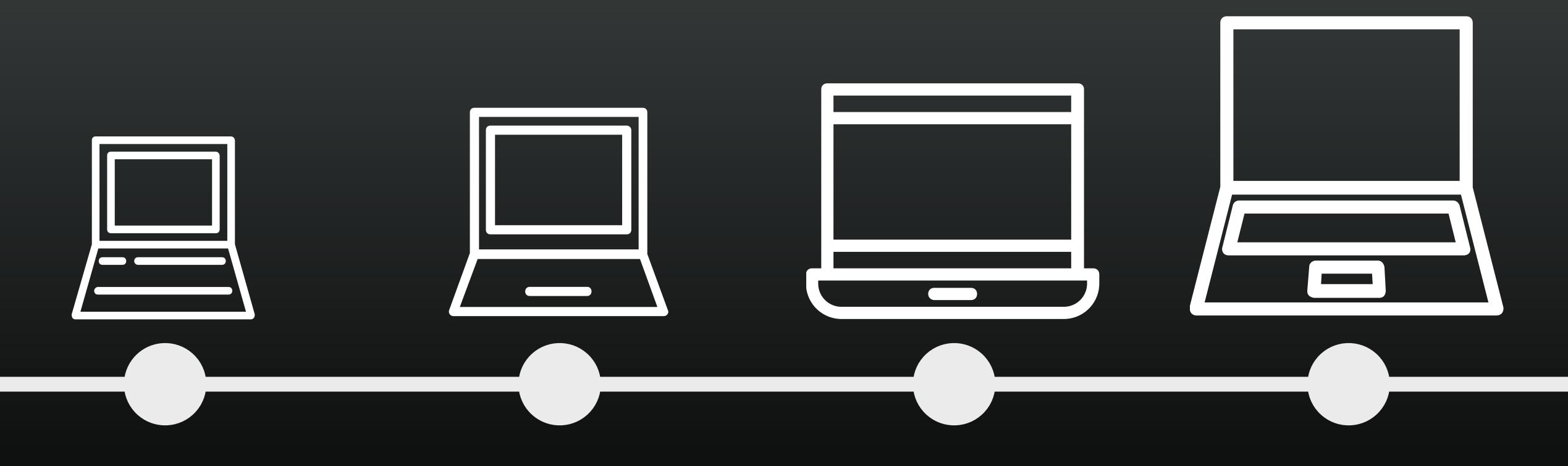


Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Ok, a bit larger, but that's it

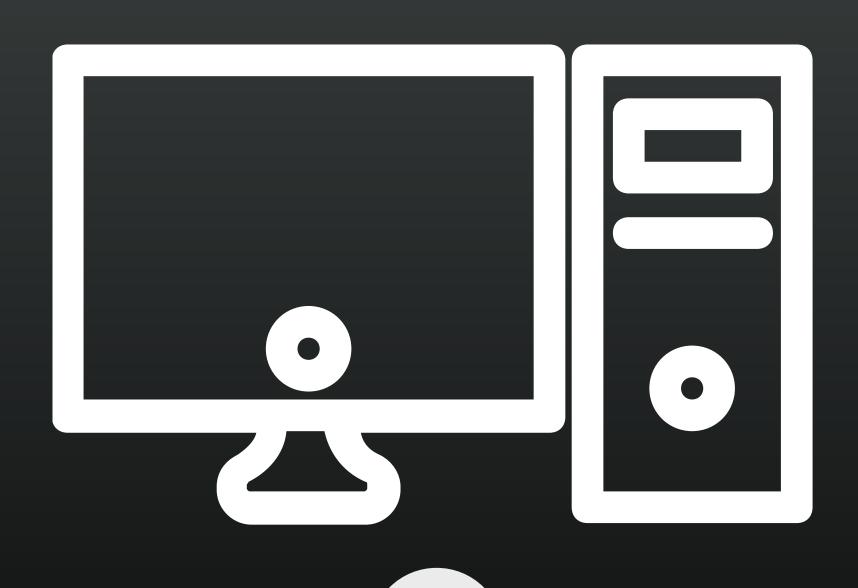


Of course laptops...



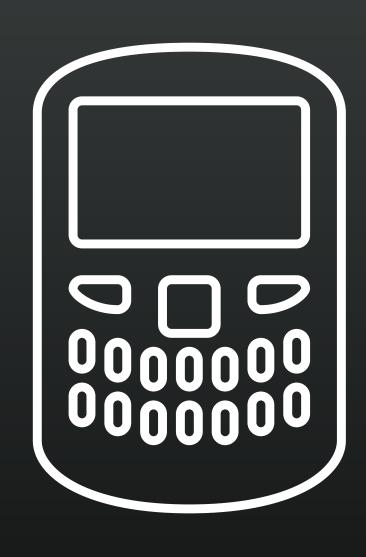
800 × 600 1024 × 600 1280 × 800 1366 × 768

The web's "happy place"



We were ignoring mobile...





240 × 240

640 × 200

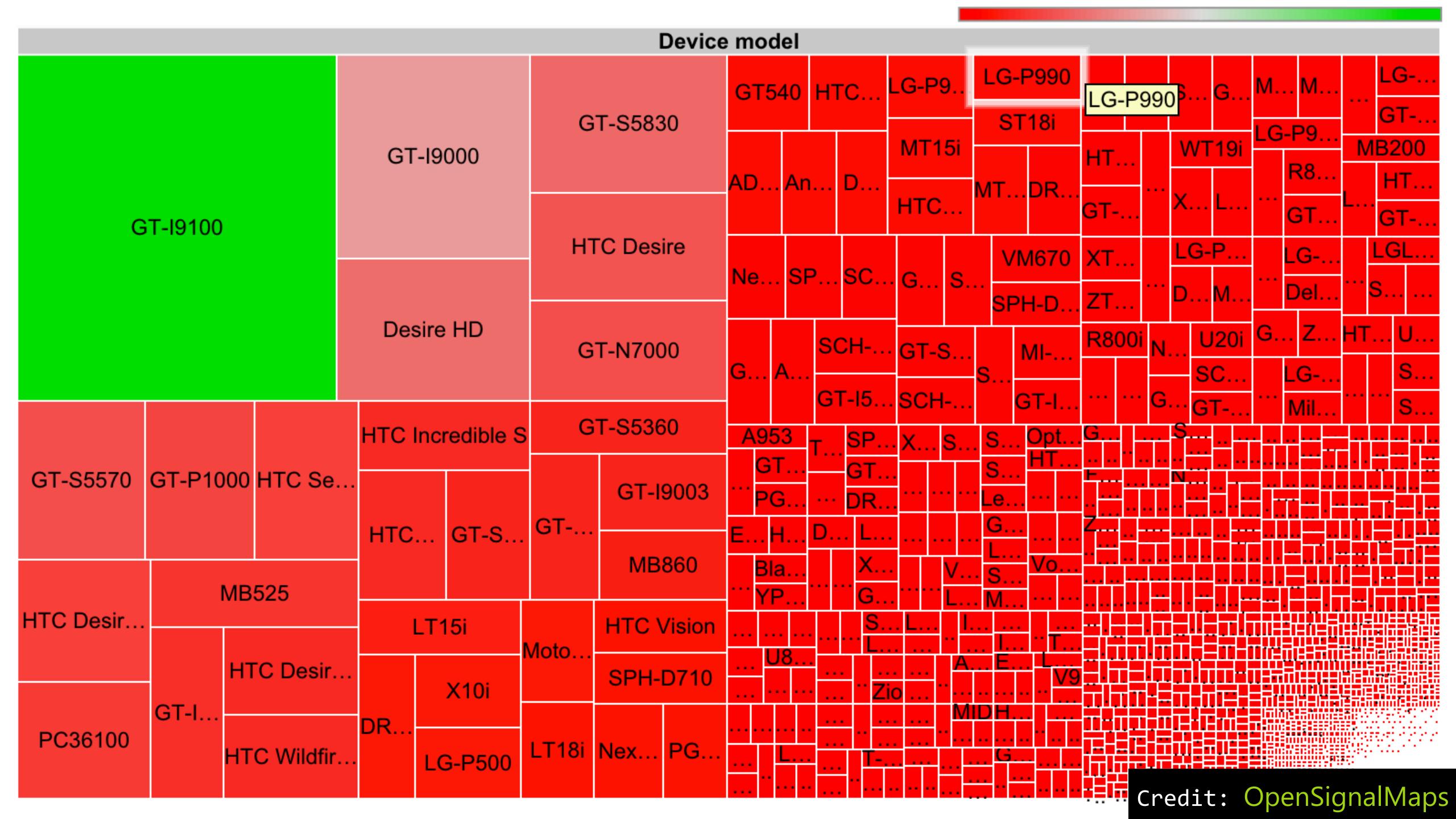
Until this happened

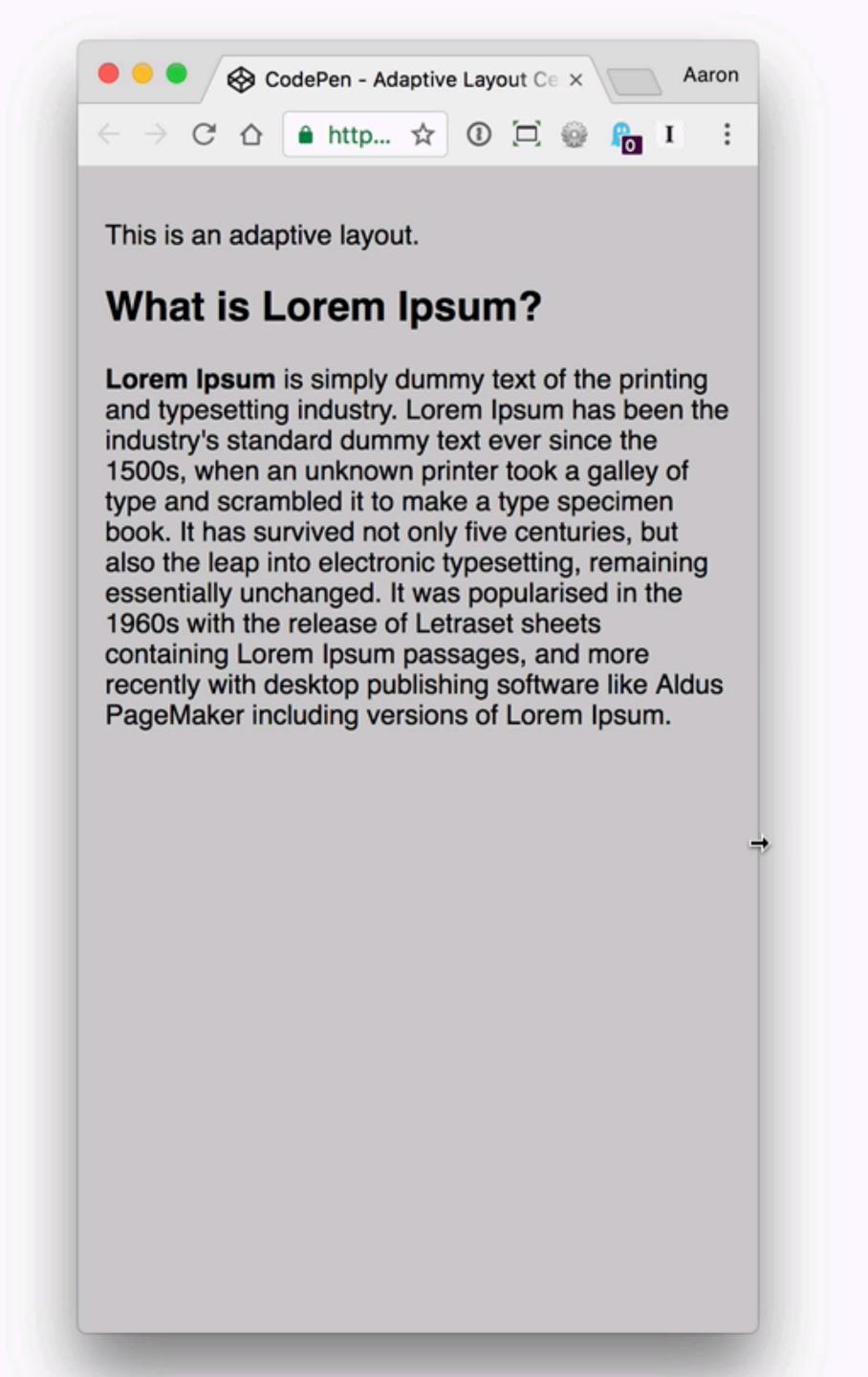


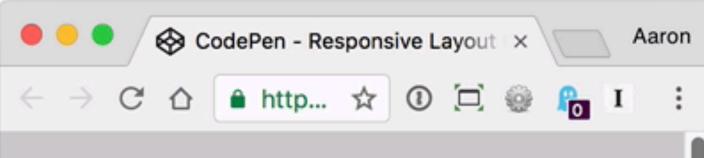
320 × 480

3840 × 2160

Don't even get me started on tablets



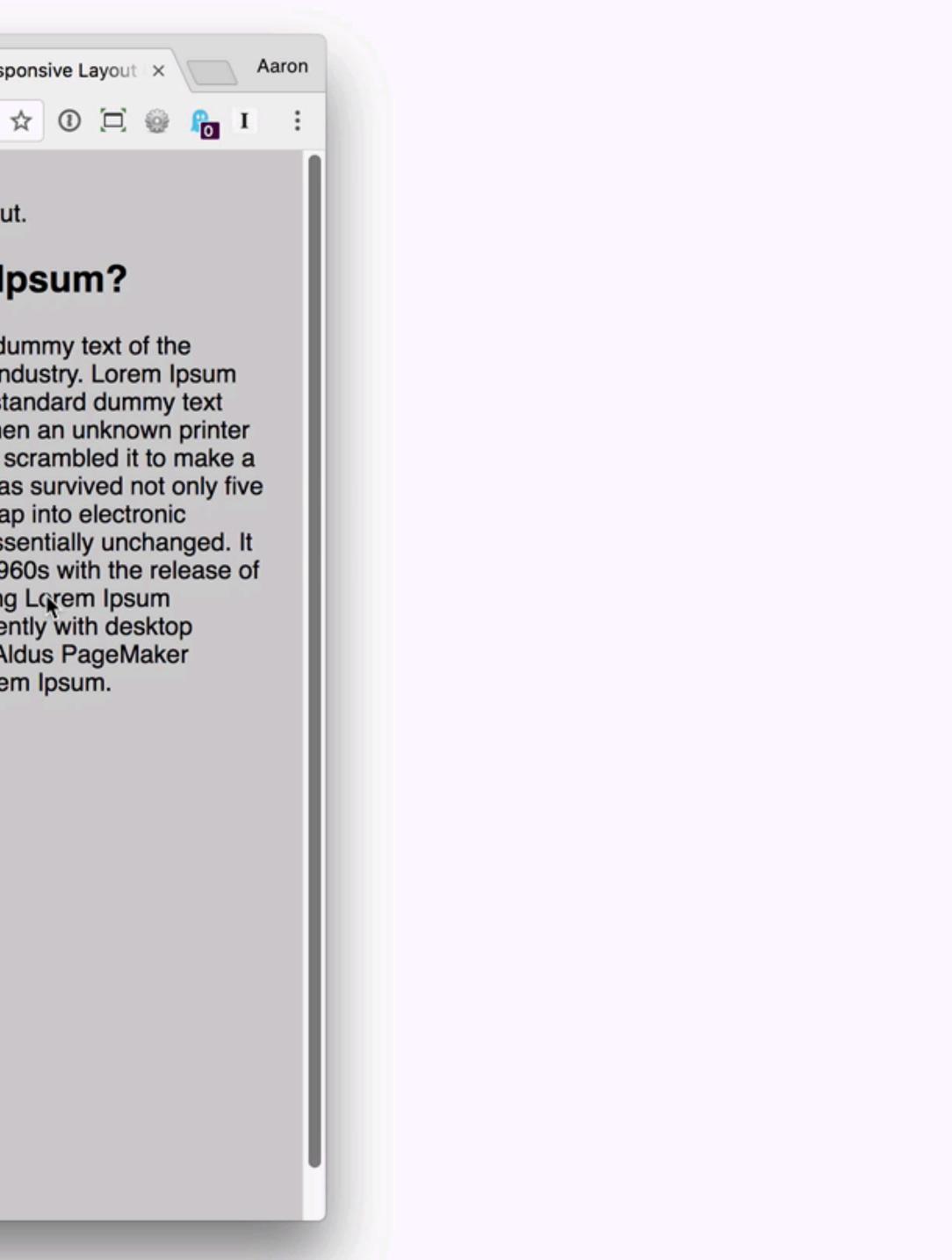




This is a responsive layout.

What is Lorem Ipsum?

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



Until this happened



320 × 480

3840 × 2160

Desktops today...



1920 × 1080

7680 × 4320

Chasing screen sizes is clearly a fool's errand

In the second quarter of 2008 we detected 71 different screen resolutions among our visitors. In the first quarter of 2014 we detected 1062

Jason Samuels
 IT Manager,
 National Council on Family Relations

66 In 2008, 27 screen resolutions showed up with more than 10 visits, in 2014 that number was 200

> — Jason Samuels IT Manager, **National Council on Family Relations**

Chasing screen sizes is clearly a fool's errand

Designing for screens is hard

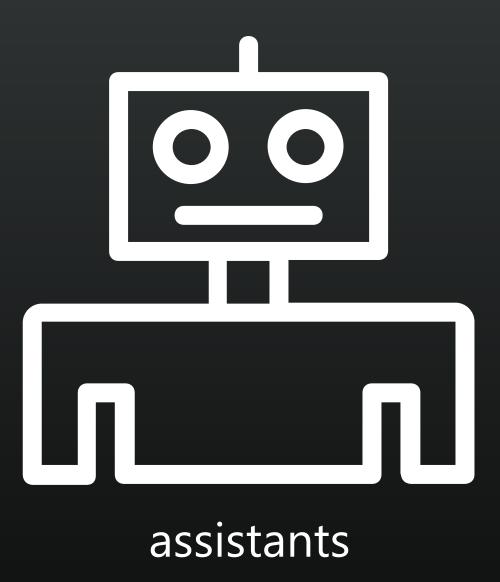
And then there's everything else

Your content can and will go anywhere that's connected

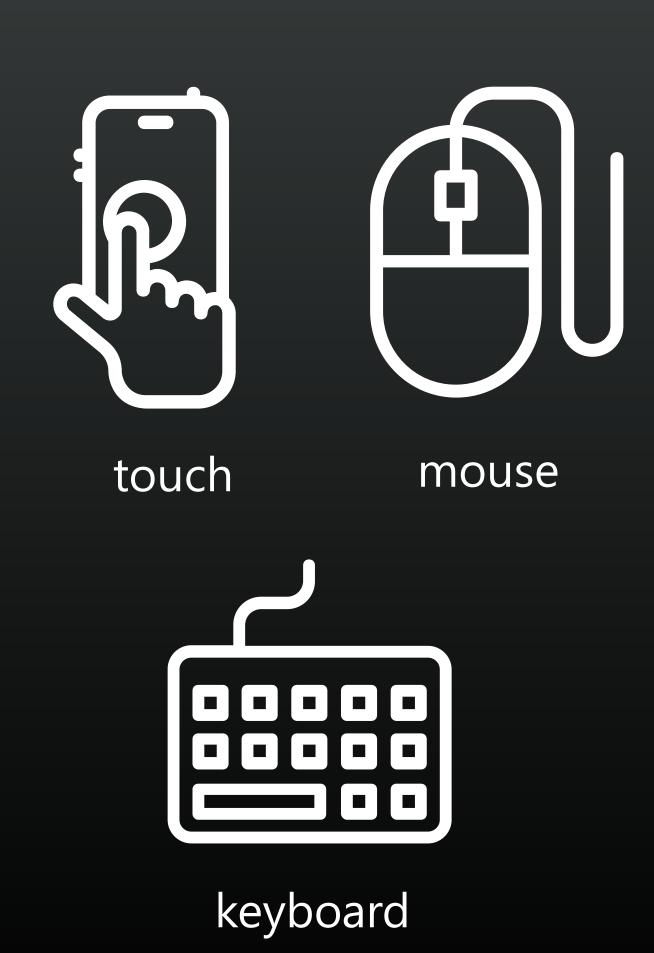




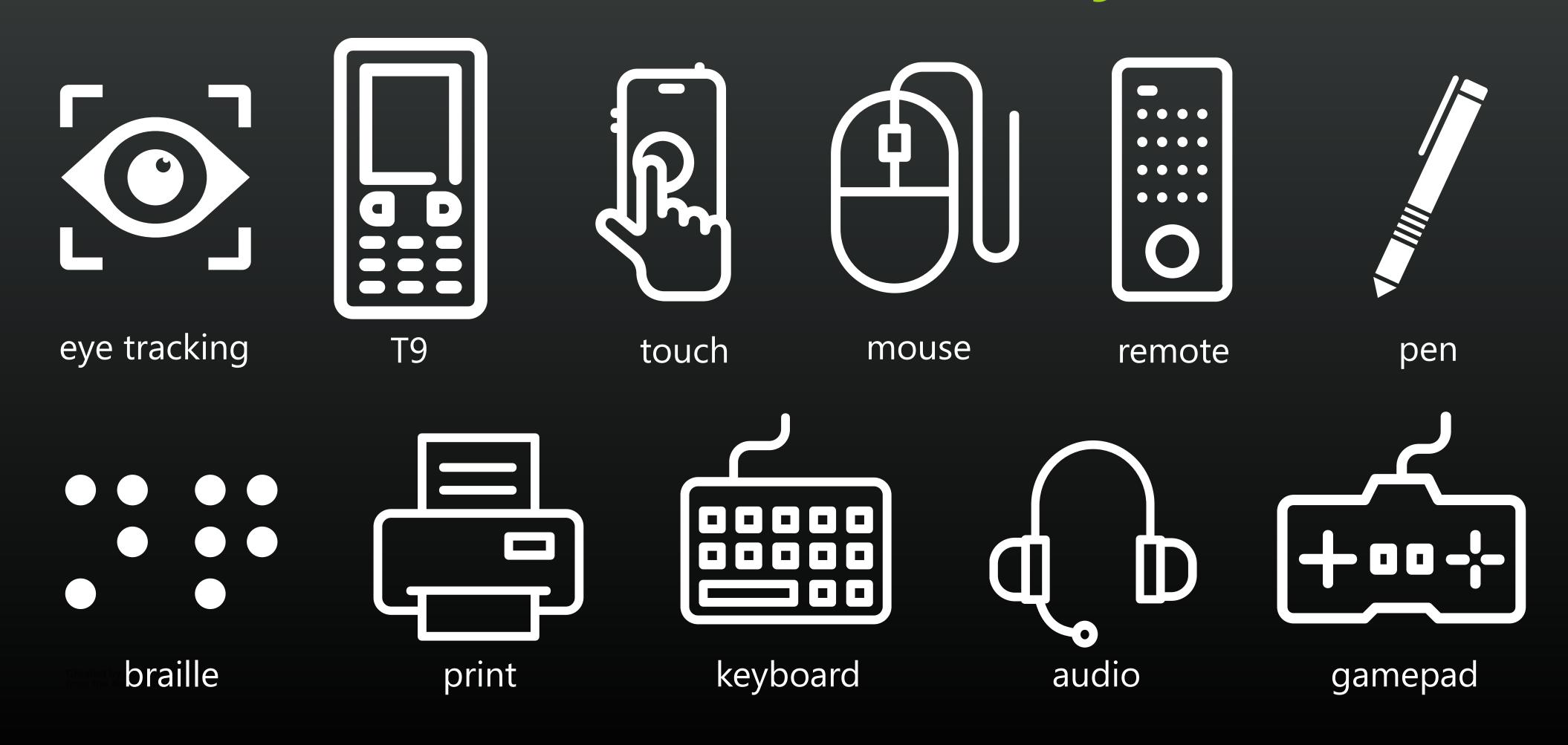




Meaning users will need to interact in different ways



Meaning users will need to interact in different ways



Over varied networks and in changing conditions











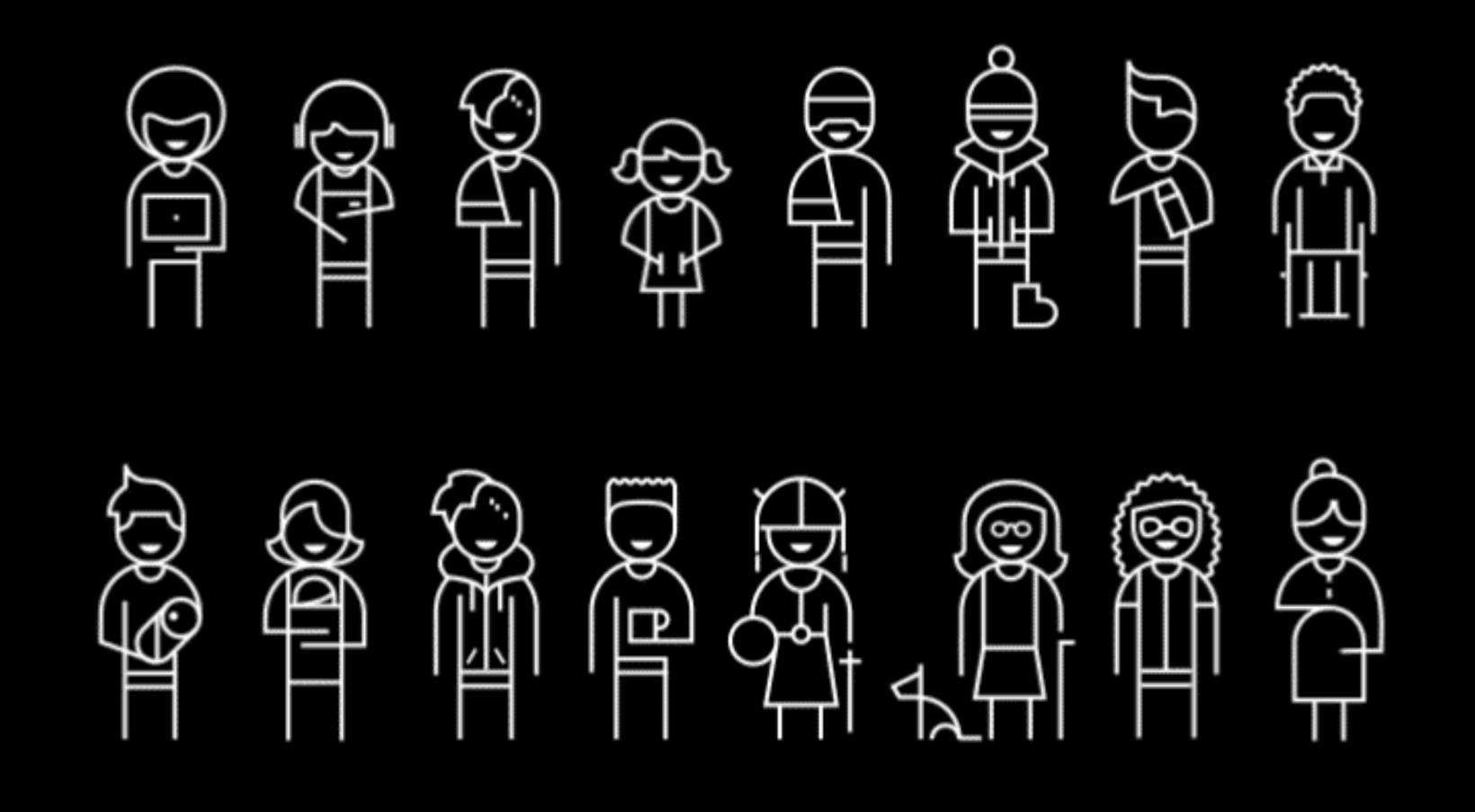








And, ultimately, our users all have different needs too



Anyone notice I haven't even mentioned browsers?



Nothing about our users' experiences of the web has ever been as homogenous as we imagined.

Treat your ideal scenario as an edge case



user ability

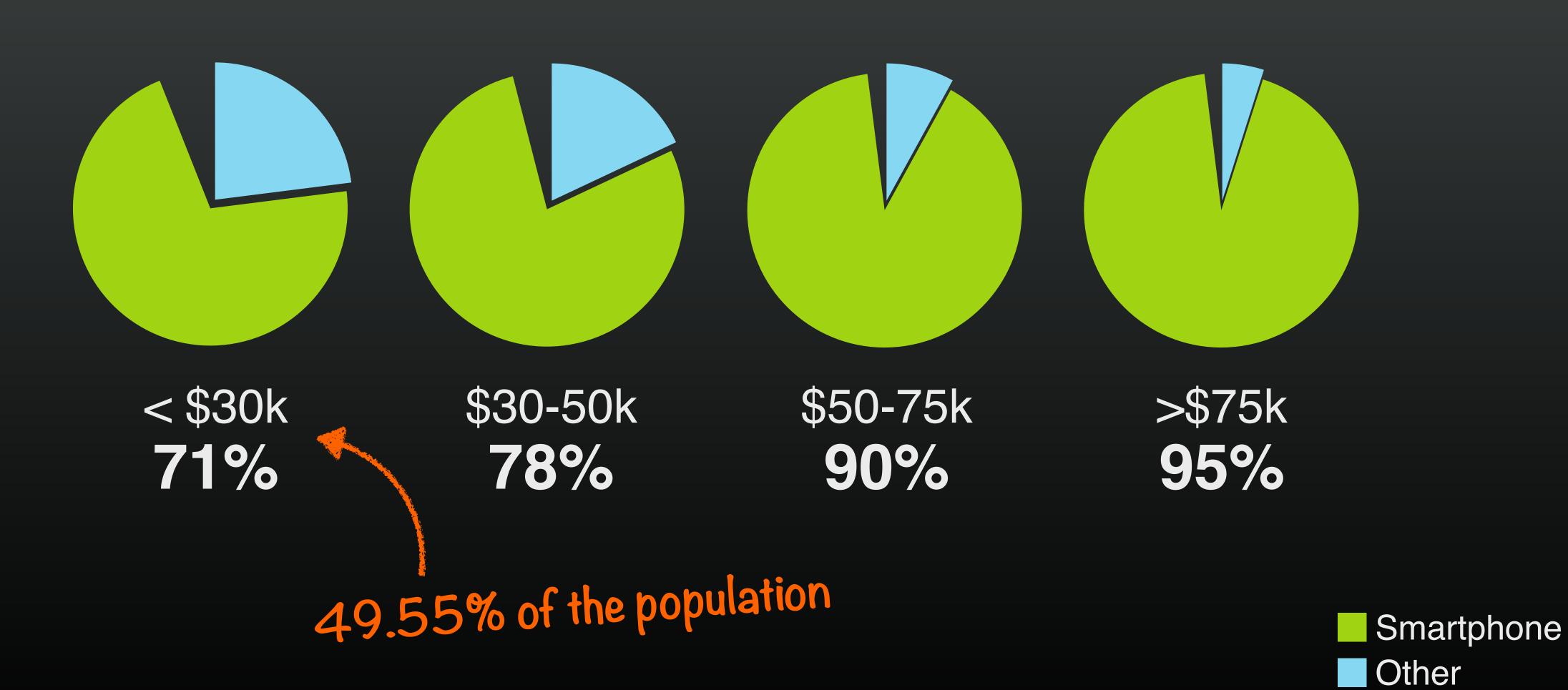




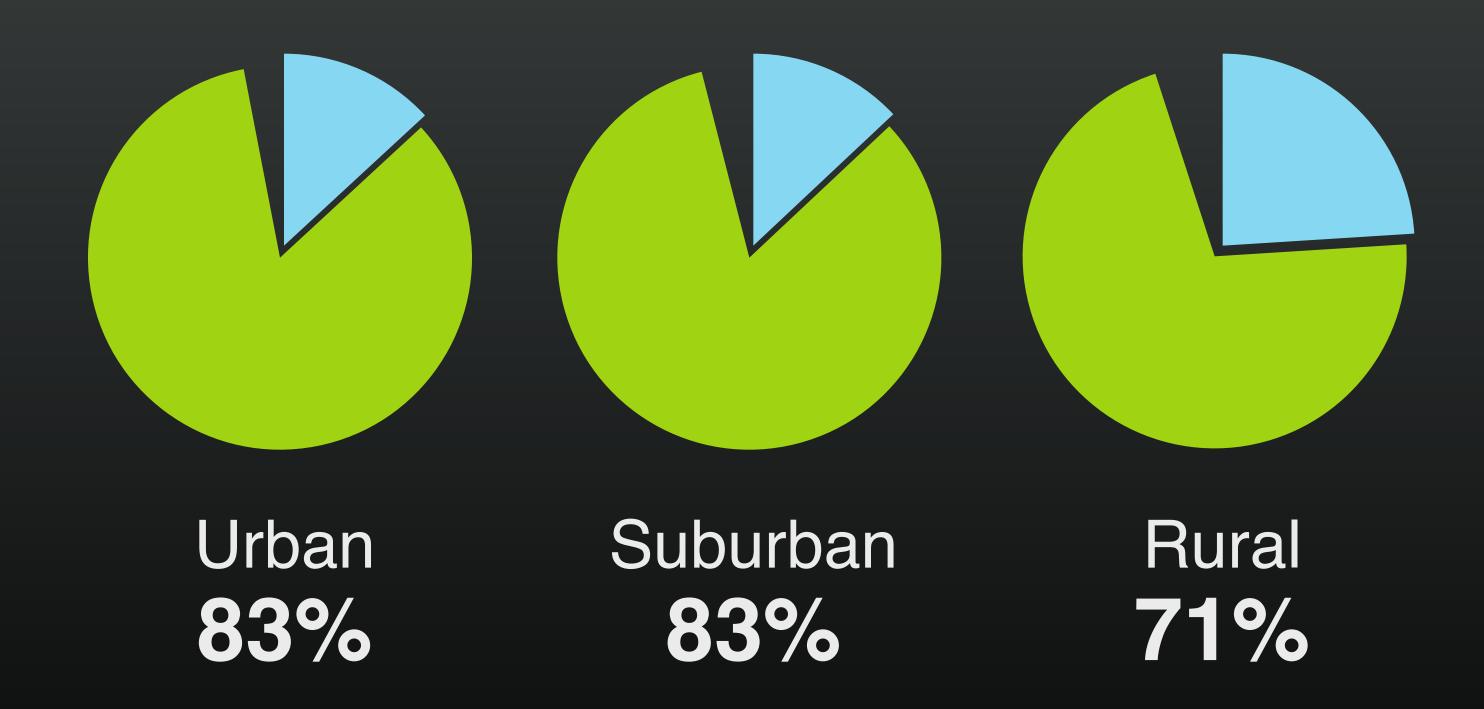


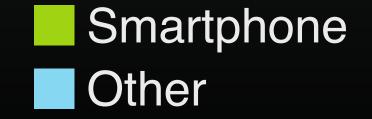


U.S. Smartphone penetration



U.S. Smartphone penetration





One in 5 U.S. adults is a smartphone-only Internet user.





Not all smartphones are equal



Galaxy S21 Ultra 5G BLU Studio Mini

6.8" (3200 × 1440)

12 GB RAM

128 GB Storage

4 Cameras (10–108 MP)

2.8GHz (1) / 2.4GHZ (3) / 1.8GHZ (4)

Android 11

\$999

5.5" (1440 × 720)

2 GB RAM

32 GB Storage

13 MP Camera

1.6 GHz Octo-core

Android 9

\$79





In the 2017 survey, Smartphone users making < \$30k/yr experienced app errors 52% of the time



user ability















permanent

situational



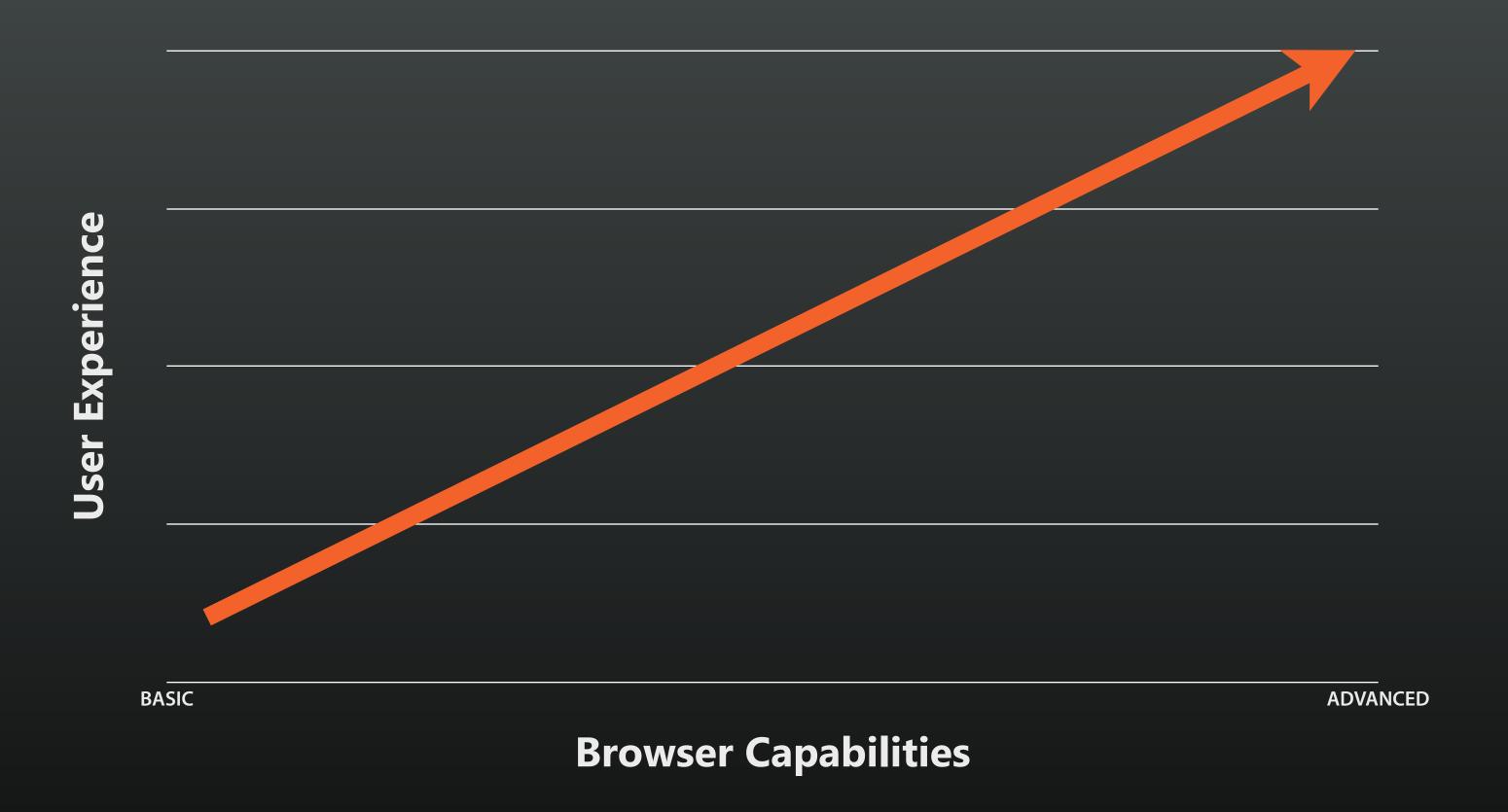
21 Million People

So how can we make our interfaces work for everyone?

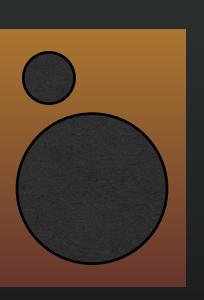
Approach your job with an open mind and empathy for your users.

We try stuff, make mistakes, & learn from them

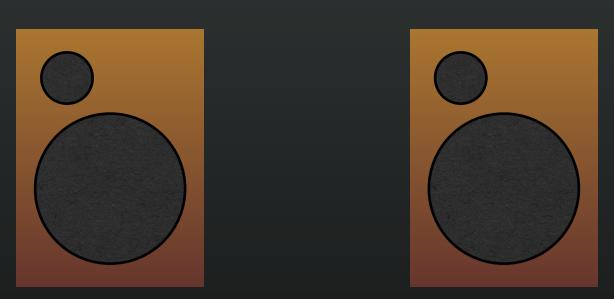
Progressive Enhancement



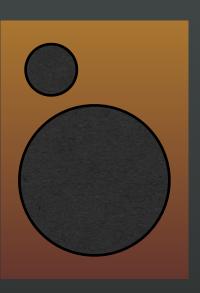


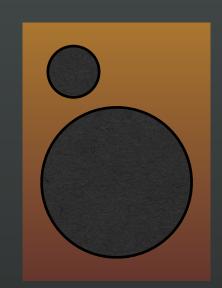


Mono

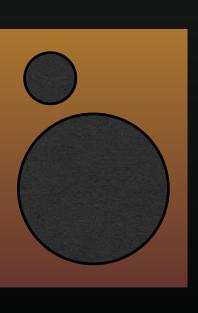


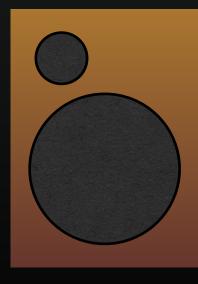
Stereo





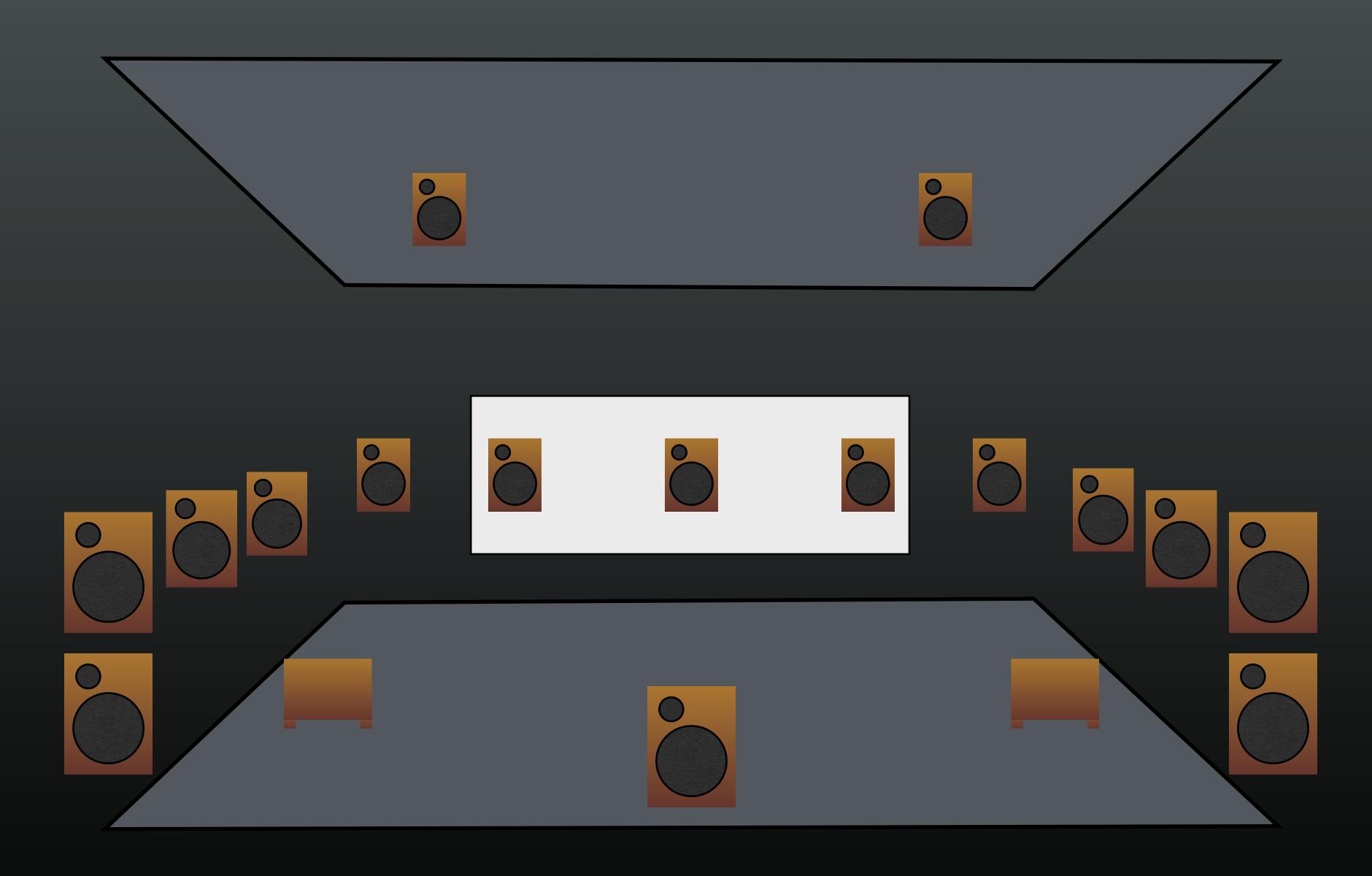
Surround Sound





5.1 Channel Surround

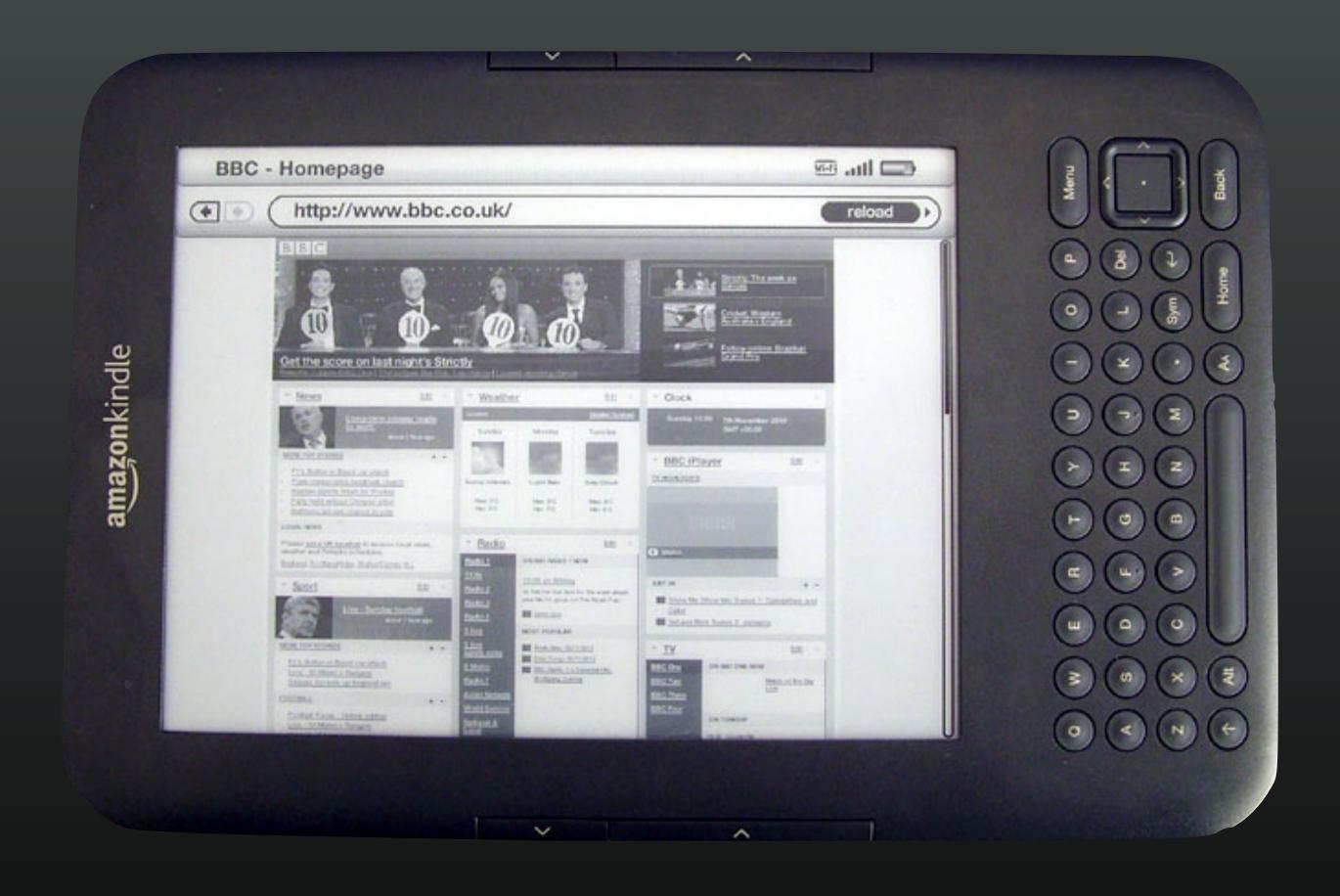




16.2 Channel Surround



Sometimes it's all you need



Kindle 3 = Free global data

Graceful Degradation

Modern Browsers



Modern Browsers









They're actually related

Graceful Degradation

Progressive Enhancement

Technological restrictions

theguardian

Google™ Custom Search

News US World Sports Comment Culture Business Money Environment Science Travel Tech Media Life & style Data

News > Technology

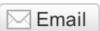
Sky's internet service mistakenly blocks web-critical plugin

Sky blocked jQuery, a plugin crucial to the operation of many of the internet's biggest websites, after wrongly classifying it as malware on Sunday night









Alex Hern

Follow @alexhern

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theguardian.com, Tuesday 28 January 2014 07.51 EST

Jump to comments (42)



Parts of the web were broken after a crucial plugin was mistakenly blocked.





Technology

Web filtering · Internet · Broadband · Malware

Media

BSkyB

Business BSkyB

More news

More on this story



BSkyB signs new fiveyear deal for exclusive rights to HBO TV catalogue Rroadcastar struck

Today's best video



Japan's Typhoon Vongfong seen from International Space Station - video

Nasa footage shows the powerful eye of Typhoon Vongfong as it makes its way towards Okinawa, Japan



Ukrainian Darth Vader makes election run

Who knew Star Wars villain Darth Vader was in fact a Ukrainian Cossack at heart?



Robotic suit helps explore ancient wreck

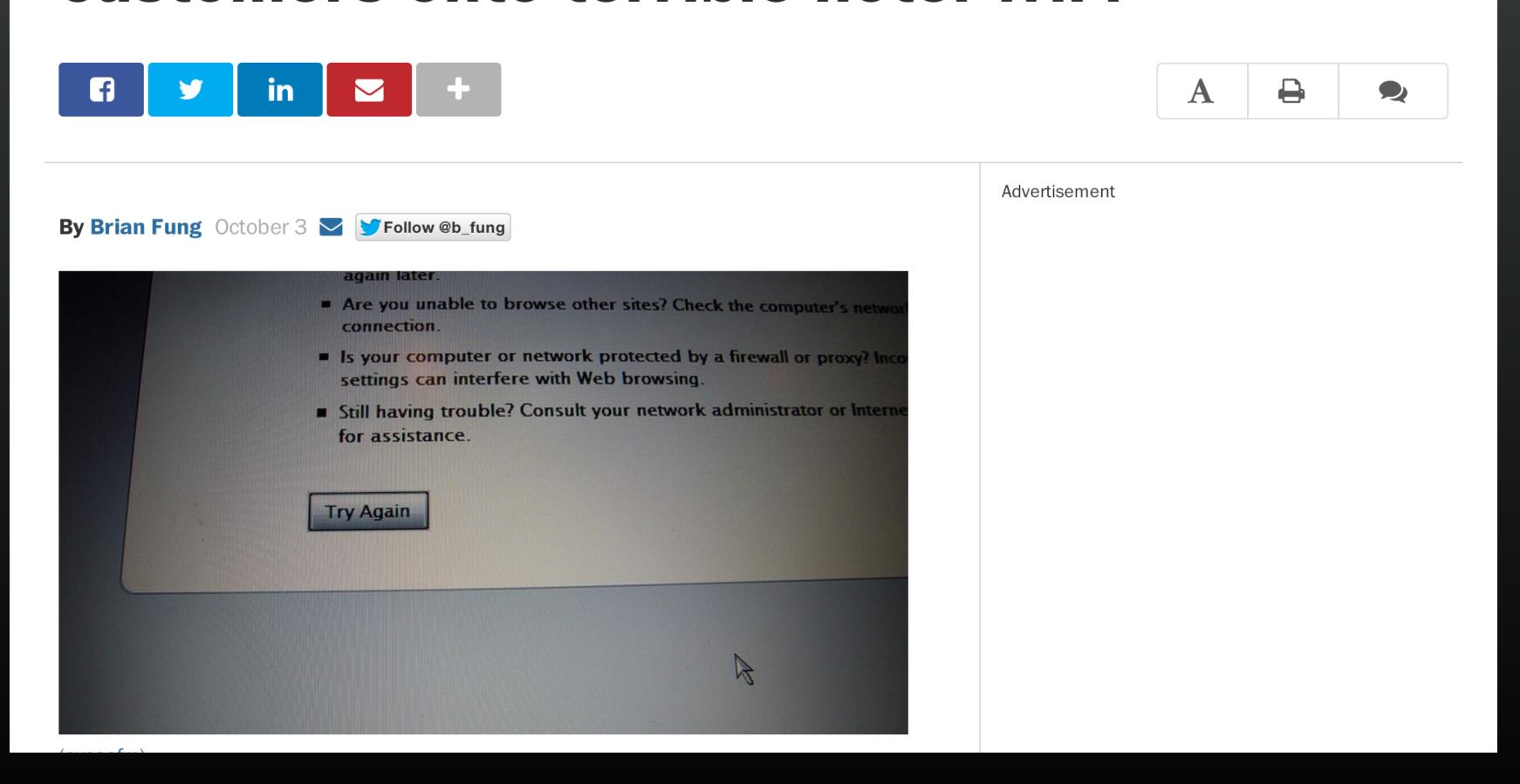
New artifacts found in Greek island shipwreck, which sank in first century BC



Isis video 'shows street battle in Kobani' Video posted on social

The Switch

FCC to Marriott: No, you can't force your customers onto terrible hotel WiFi



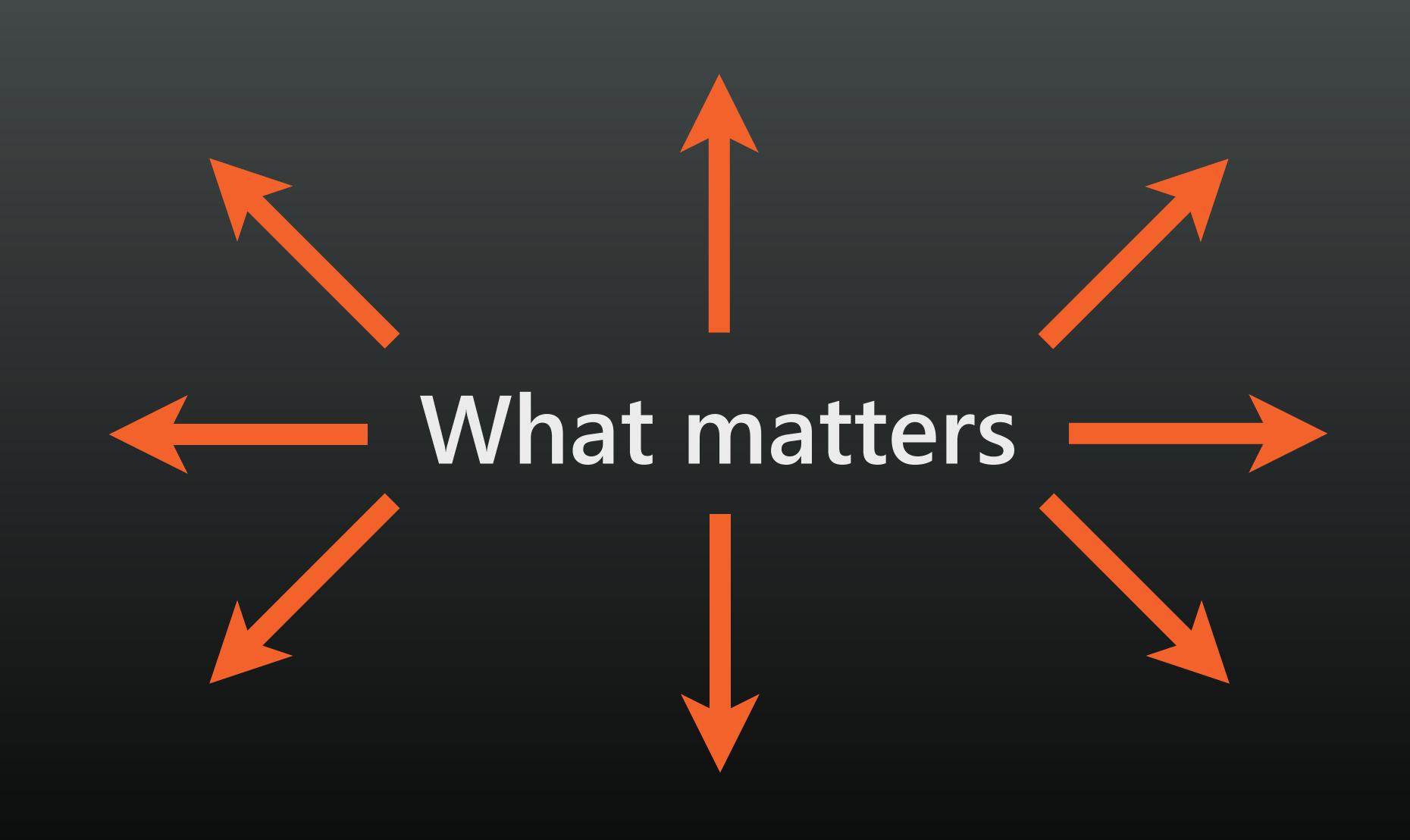


Aw, Snap!

Google Chrome ran out of memory while trying to display this webpage.

Learn more

Send feedback



"Mobile first"

It's all about process

1. Focus on what matters.







Obamacare sign-ups begin; costsharing reduction still available

By CHLOÉ MORRISON

2. Write it out, then read it back.

How does this photo make you feel?

- © Embarrassing
- O Upsetting
- Saddening
- Bad Photo
- Other

2. Write it out, then read it back.

How does this photo make you feel?

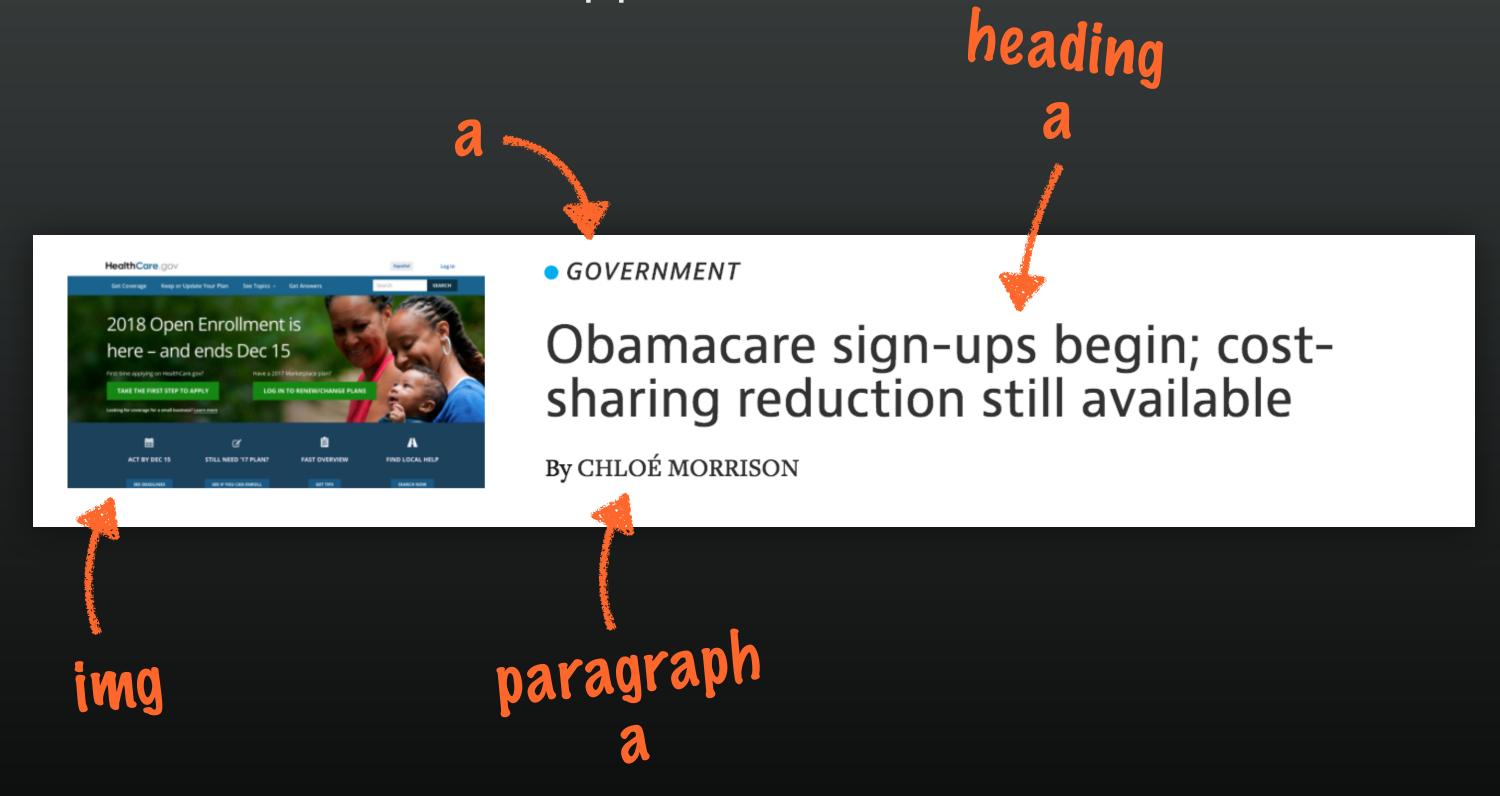
- © Embarrassing
- O Upsetting
- Saddening
- Bad Photo
- Other it's embarrassing

2. Write it out, then read it back.

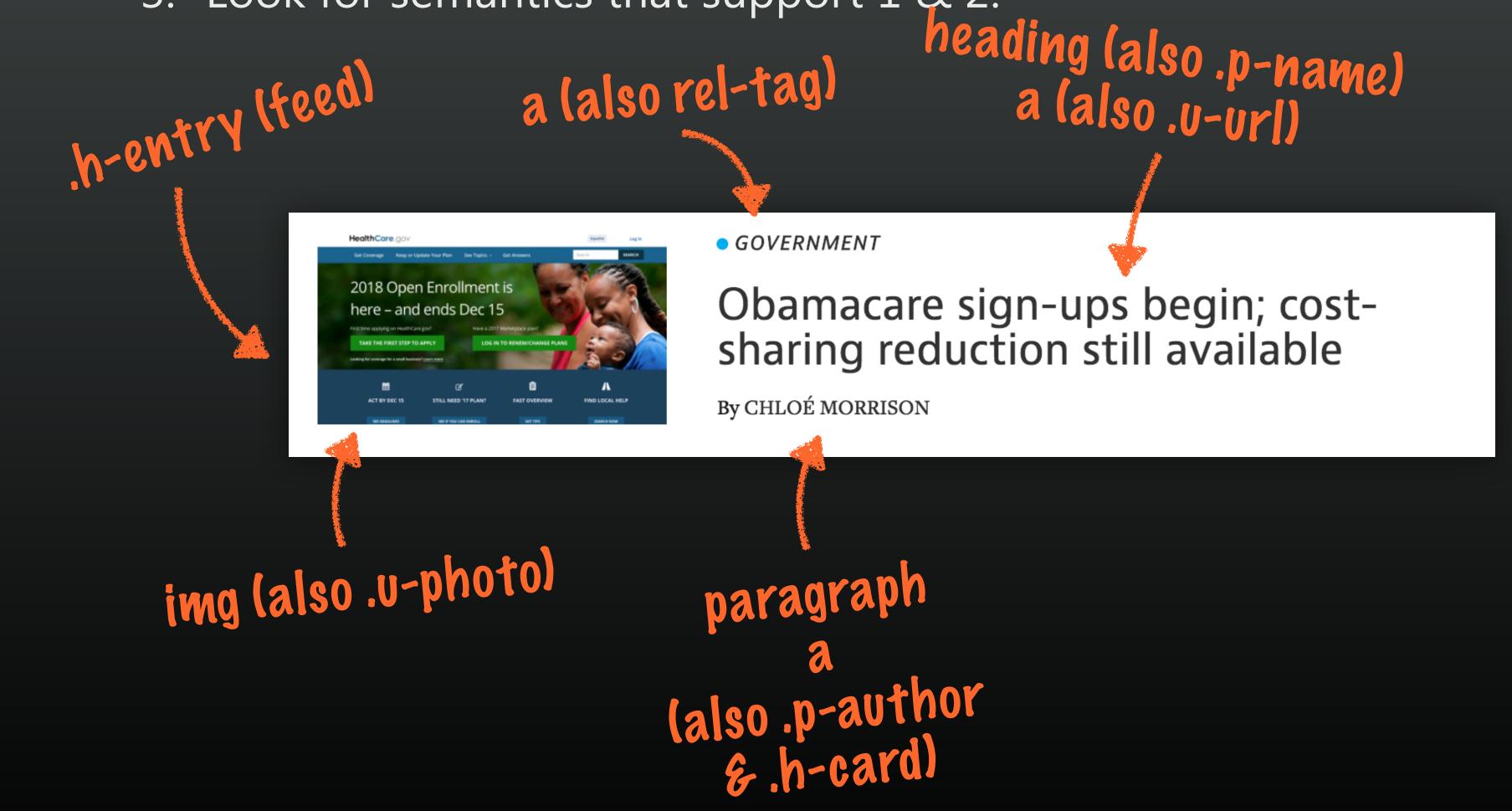
Please describe the photo

- It's embarrassing
- It's a bad photo of me
- It makes me sad

3. Look for semantics that support 1 & 2.



3. Look for semantics that support 1 & 2.



4. Think about how design can improve comprehension.

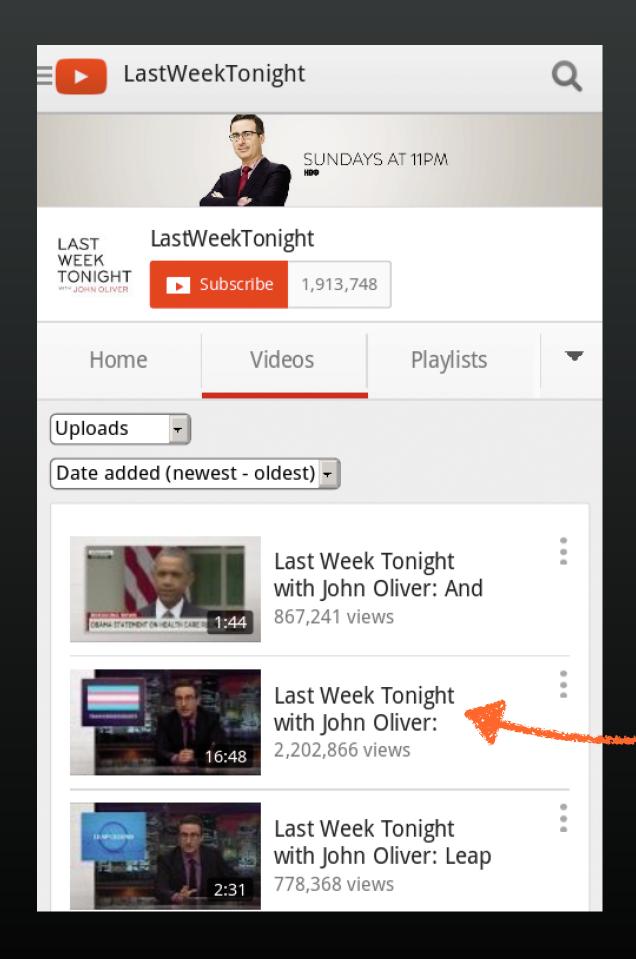


Obamacare sign-ups begin; costsharing reduction still available

By CHLOÉ MORRISON

distinct from the content & diminished in importance

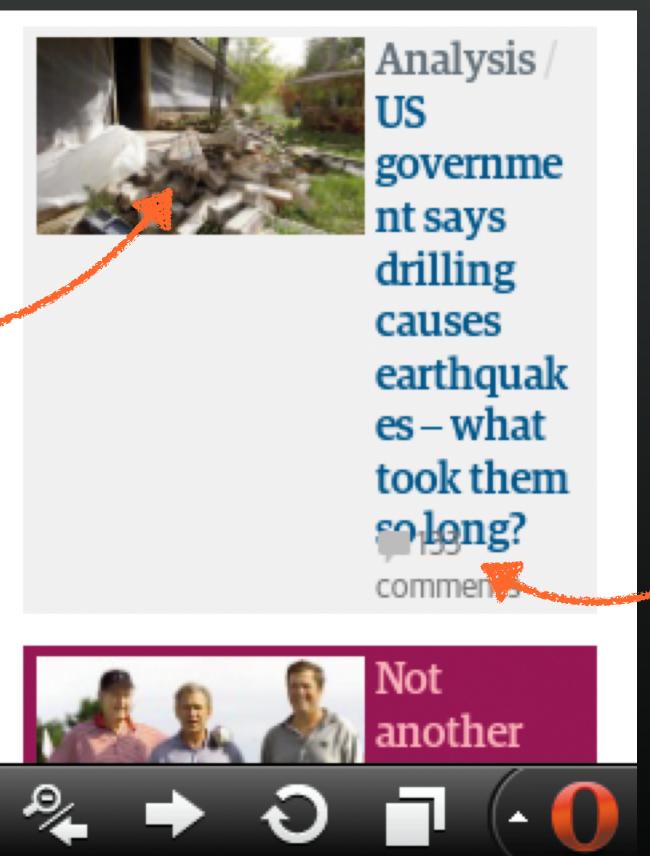
5. Consider how your design choices impact the reading experience.



Can't tell what the episode is called

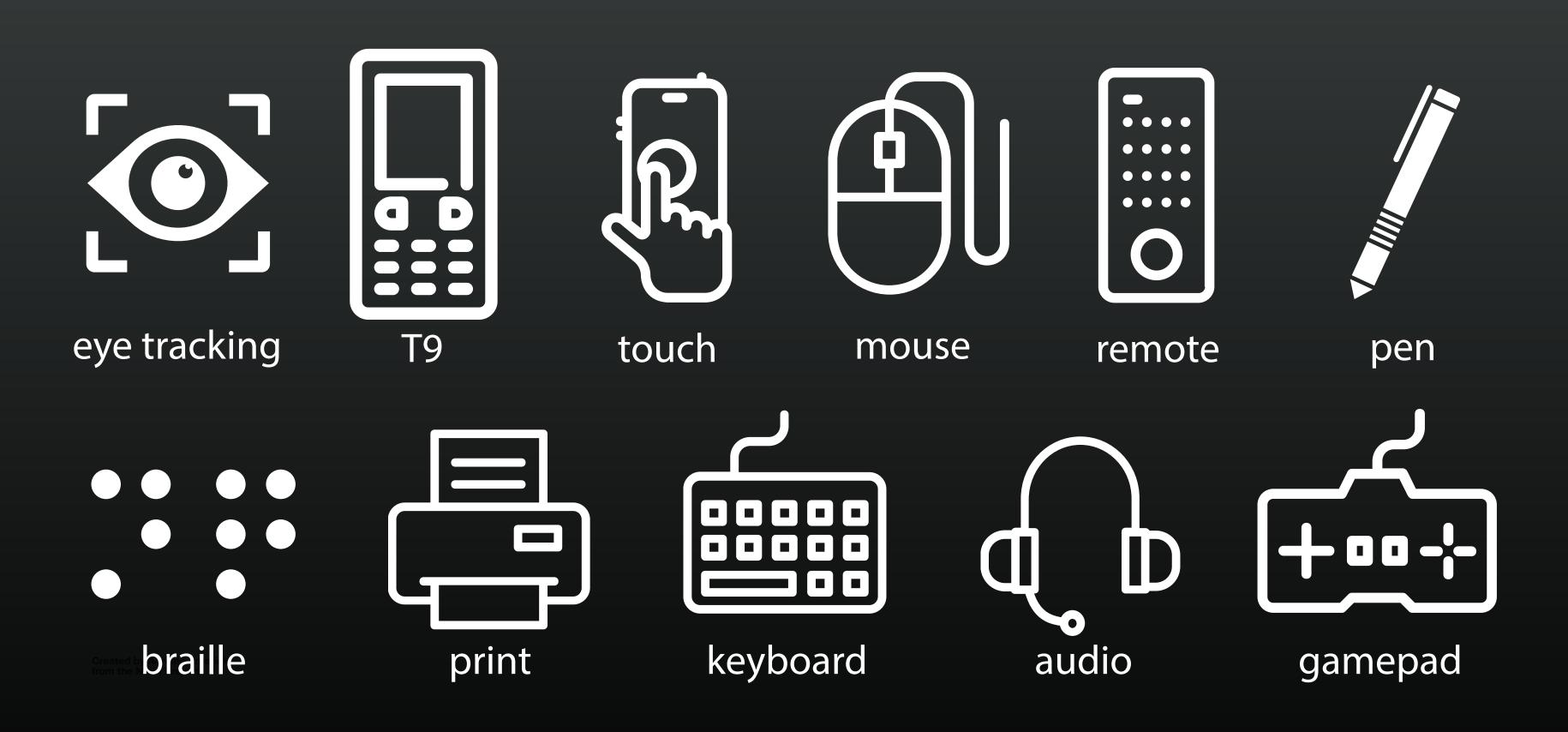
5. Consider how your design choices impact the reading experience.

Floated images crush the text on small screens



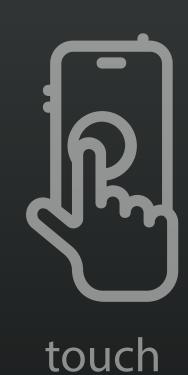
Ouch

6. Think about the many different ways folks might interact.



6. Think about the many different ways folks might interact.





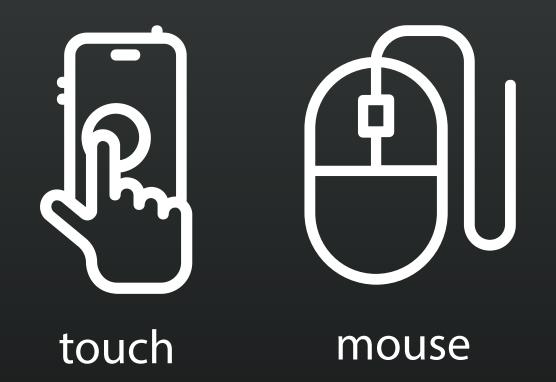


Hover?

6. Think about the many different ways folks might interact.



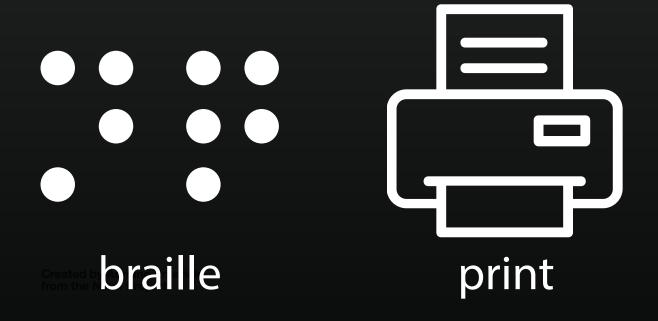
6. Think about the many different ways folks might interact.







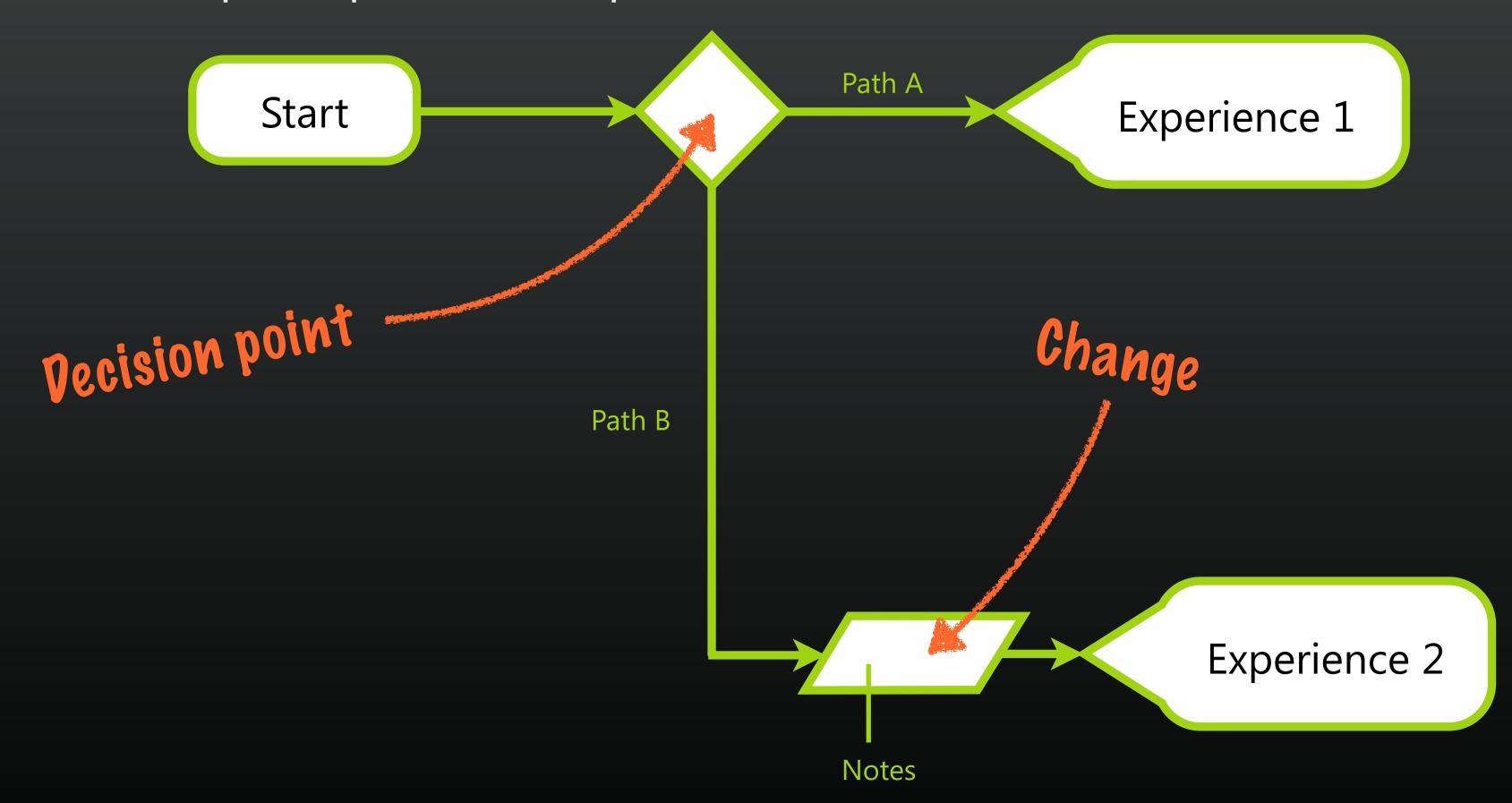
6. Think about the many different ways folks might interact.





Text expansions?

7. Map the potential experiences.



- 1. Focus on what matters.
- 2. Write it out, then read it back.
- 3. Look for semantics that support 1 & 2.
- 4. Think about how design can improve comprehension.
- 5. Consider how your design choices impact the reading experience.
- 6. Think about the many different ways folks might interact.
- 7. Map the potential experiences.
- 8. Iterate.

Thank you!

@AaronGustafson aaron-gustafson.com noti.st/AaronGustafson

