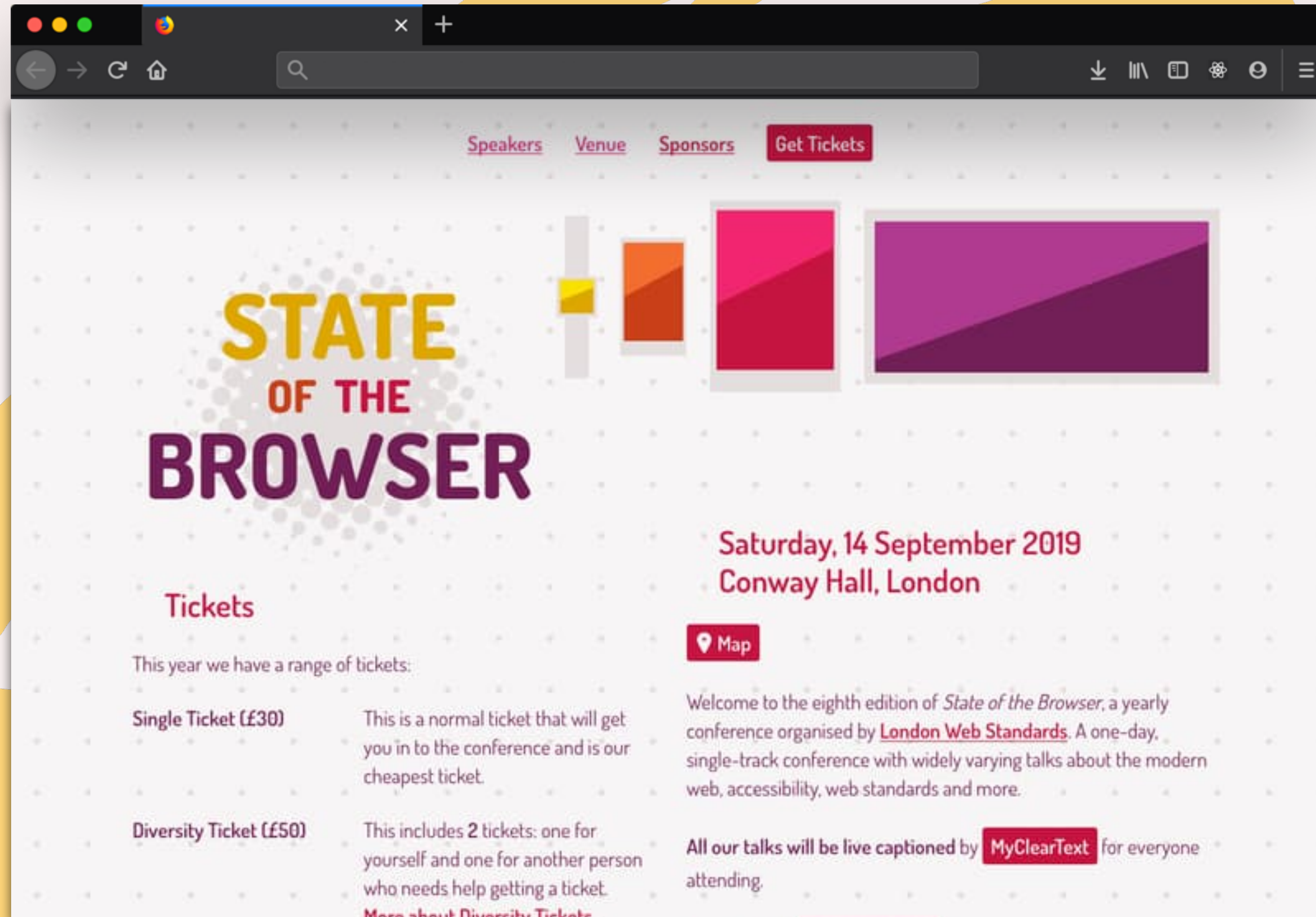


State of the Browser
conference
September 2019

Making **standards** work for **everyone**

Sally Lait
@sallylait
sally.dev





The screenshot shows a browser window displaying the website for the State of the Browser conference. The browser's address bar is empty, and the page has a clean, modern design with a white background and a grid of dots. The main navigation includes links for [Speakers](#), [Venue](#), [Sponsors](#), and a prominent [Get Tickets](#) button. The title 'STATE OF THE BROWSER' is prominently displayed in yellow and purple. To the right of the title are three colored squares (yellow, orange, purple) and a vertical slider. Below the title, the event details are listed: 'Saturday, 14 September 2019' and 'Conway Hall, London'. A 'Map' button is also visible. The 'Tickets' section is divided into two categories: 'Single Ticket (£30)' and 'Diversity Ticket (£50)', each with a brief description. A 'MyClearText' logo is mentioned in the context of live captioning for talks.

[Speakers](#) [Venue](#) [Sponsors](#) [Get Tickets](#)

STATE OF THE BROWSER

Saturday, 14 September 2019
Conway Hall, London

[Map](#)

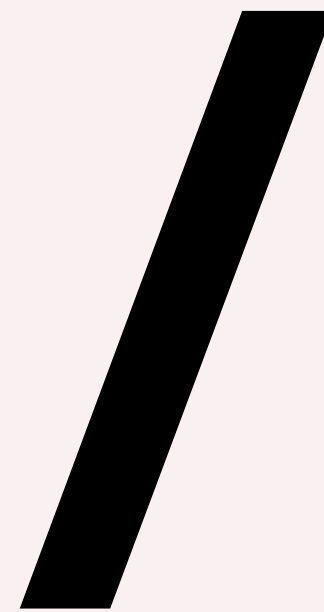
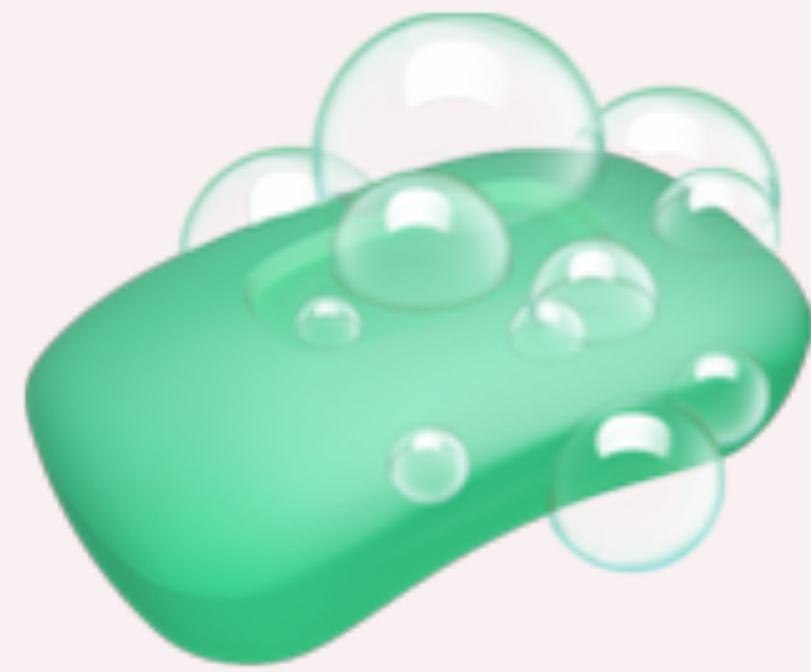
Tickets

This year we have a range of tickets:

Single Ticket (£30)	This is a normal ticket that will get you in to the conference and is our cheapest ticket.
Diversity Ticket (£50)	This includes 2 tickets: one for yourself and one for another person who needs help getting a ticket. More about Diversity Tickets

Welcome to the eighth edition of *State of the Browser*, a yearly conference organised by [London Web Standards](#). A one-day, single-track conference with widely varying talks about the modern web, accessibility, web standards and more.

All our talks will be live captioned by [MyClearText](#) for everyone attending.



- 1 Why standards are important**
- 2 What we're up against**
- 3 The practical example bit**

@sallylait

Sally Lait

Senior Engineering Manager
Monzo Bank


@sallylait
sally.dev



llllllll
llllllllll
oooooooo

The background of the slide is a solid light pink color, overlaid with a pattern of faint, light pink plus signs (+) scattered across the entire surface. The plus signs vary slightly in opacity and are distributed in a non-uniform, random pattern.

What are standards?



“**Web standards** are the formal, non-proprietary standards and other technical specifications that define and describe aspects of the World Wide Web. In recent years, the term has been more frequently associated with the trend of endorsing a set of **standardized best practices for building web sites**, and a **philosophy of web design and development** that includes those methods.”

en.wikipedia.org/wiki/Web_standards





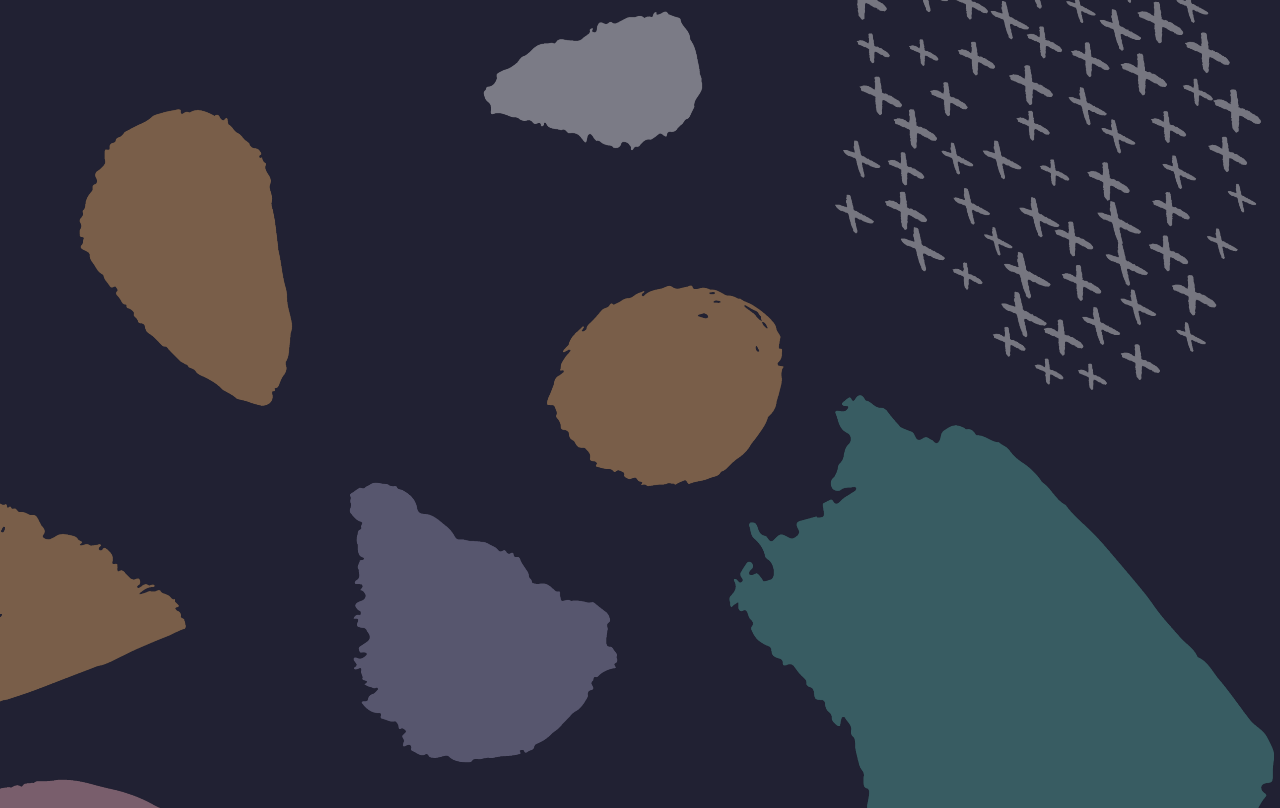
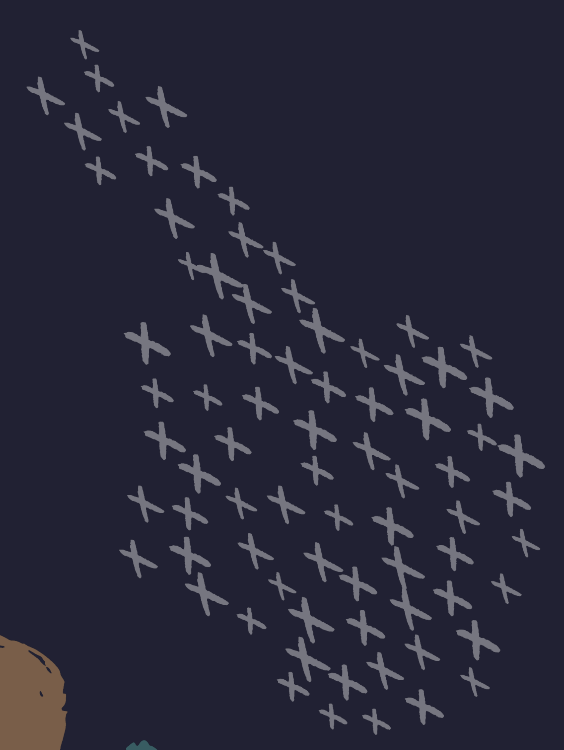
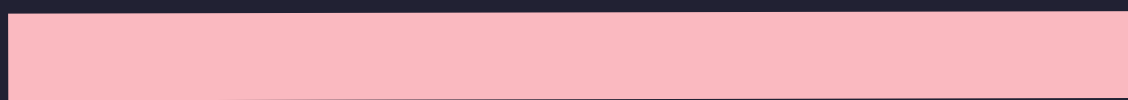
“Considerations include the **interoperability**, **accessibility**
and **usability** of web pages and web sites.”

en.wikipedia.org/wiki/Web_standards





**Why standards are
!important**



```
<html lang="en">
```



```
<html lang="en-GB">
```

```
1 <p>This is <em>English</em>, but  
2 <span lang="ja">これは<em>日本語  
3 </em>です。</span></p>  
4 p {  
5   font-size: 3em;  
6 }  
7 em {  
8   font-style: italic;  
9 }  
10 em:lang(ja) {  
11   font-style: normal;  
12   text-emphasis: filled sesame hotpink;  
13 }
```

This is *English*, but これは日本語です。

```
HTML
1 <p>
2 <span lang="en">雪</span> en<br>
3 <span lang="ko">雪</span> ko<br>
4 <span lang="zh-Hant">雪</span> zh-Hant<br>
5 <span lang="zh-Hans">雪</span> zh-Hans<br>
6 <span lang="ja">雪</span> ja
7 </p>

CSS
1 p {
2   font-size: 3em;
3 }
4
```

雪 en
雪 ko
雪 zh-Hant
雪 zh-Hans
雪 ja

codepen.io/greywillfade/pen/QWLqpgy

w3.org/International/questions/qa-lang-why

```
<html lang="en">
```


Tools and technologies
e.g. frameworks,
dev tools



Developers



Tools and technologies
e.g. browsers,
assistive
technologies



Users

Guidelines, specifications, standards

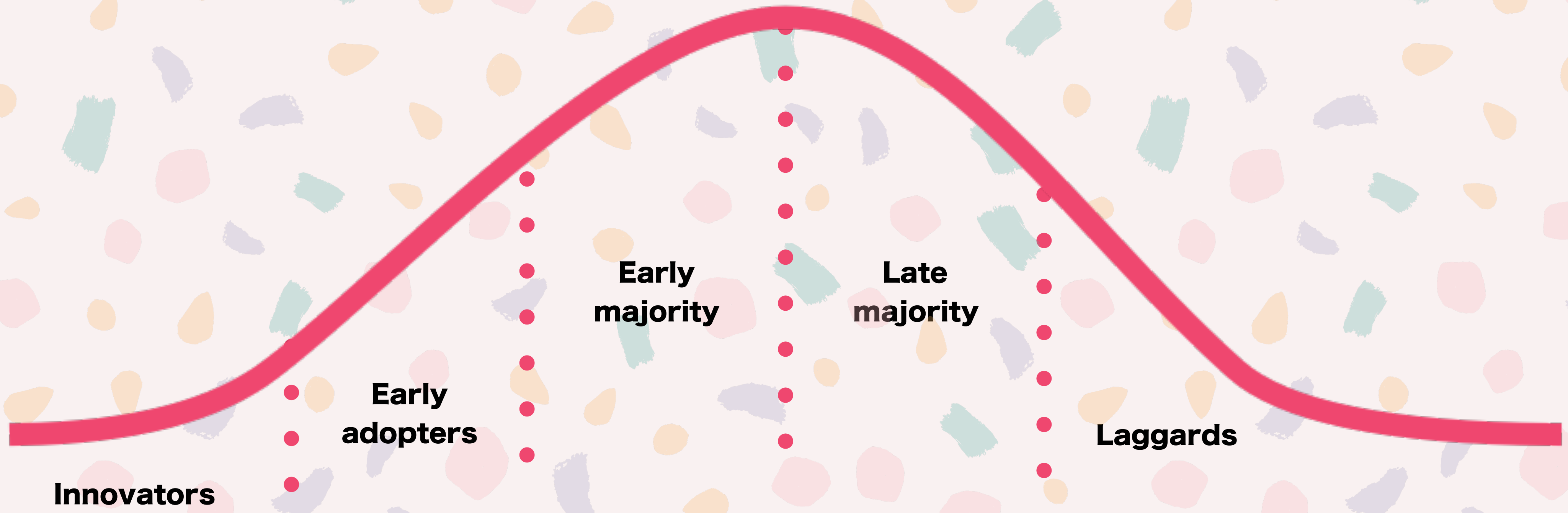


What we're up against

```
<!DOCTYPE html>
```



“I hate accessibility and believe if you can’t see, you’re not worthy of using my website.”



Innovators

Early adopters

Early majority

Late majority

Laggards

- 1 People who don't know about these topics at all**
- 2 People who know it's a thing but don't care about it**
- 3 People who know and care, but can't prioritise above other things**

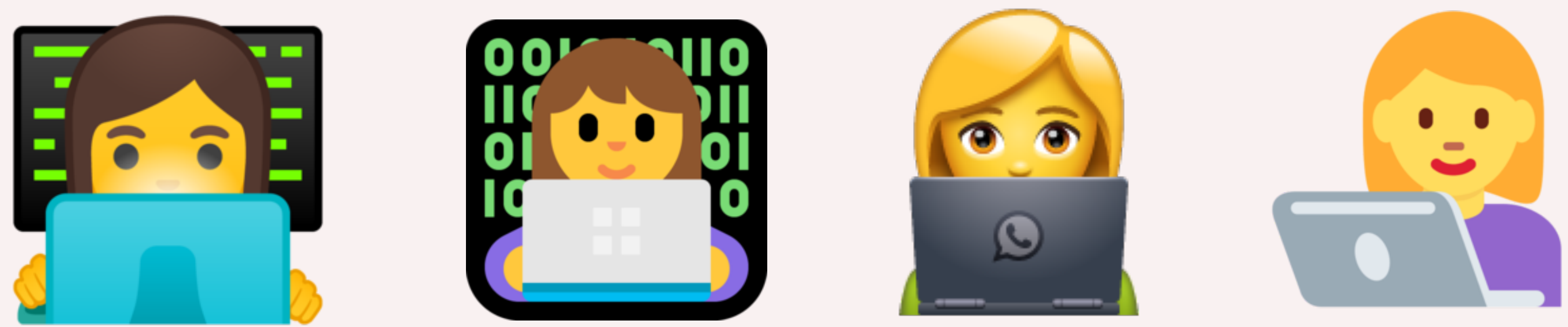
- 1 People who don't know about these topics at all**
- 2 People who know it's a thing but don't care about it**
- 3 People who know and care, but can't prioritise above other things**



**People interpret
standards differently**

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)





U+1F469 U+200D U+1F4BB



Even standards can be

wrong

ひらがな
カタカナ
漢字

We want to hear from you! Google Fonts & Icons are doing user studies. [Sign up now](#)

Search fonts

Custom 漢字

88px

Categories

Japanese

Font Properties

Viewing 8 of 952 font families

Sort by: Trending now

Noto Sans JP
Google (6 styles)

漢字

M PLUS 1p
Coji Morishita, M+ Fonts Project (7 styles)

漢字

Noto Serif JP
Google (7 styles)

漢字

Sawarabi Mincho
mshio (1 style)

漢字

M PLUS Rounded 1c
Coji Morishita, M+ Fonts Project (7 styles)

漢字

Sawarabi Gothic
mshio (1 style)

漢字

Kosugi Maru
MOTOYA (1 style)

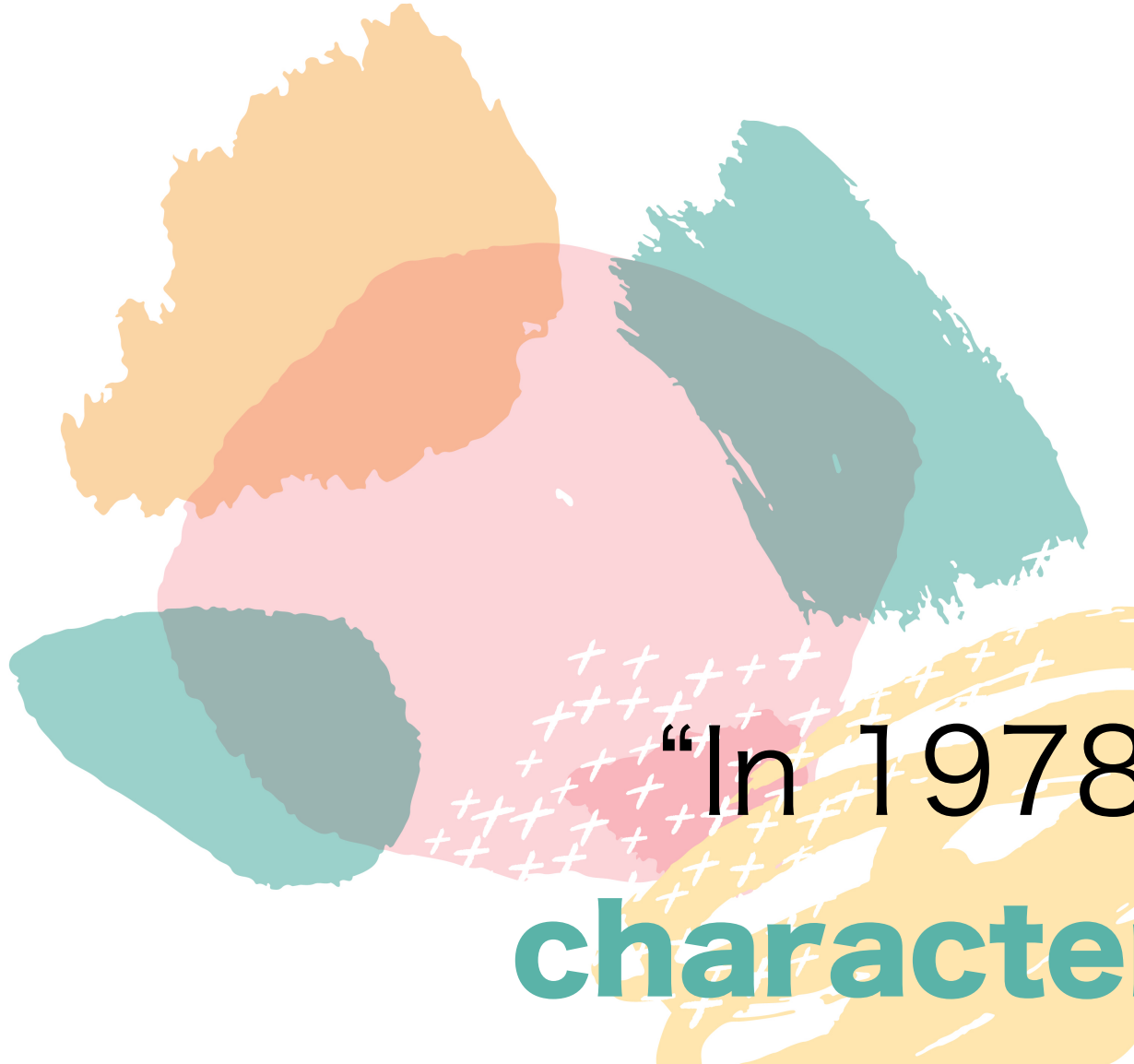
漢字

Kosugi
MOTOYA (1 style)

漢字

幽靈文字 🧛

堵 壘 𡗗 捩 鼻 榜 橈 蟬 祢 閏 駟 弼



“In 1978 **a series of small mistakes created some characters out of nothing.** The errors went undiscovered just long enough to be set in stone, and now these ghosts are, at least in potential, **a part of every computer on the planet,** lurking in the dark corners of character tables.”

Paul McCann, dampfkraft.com/ghost-characters.html

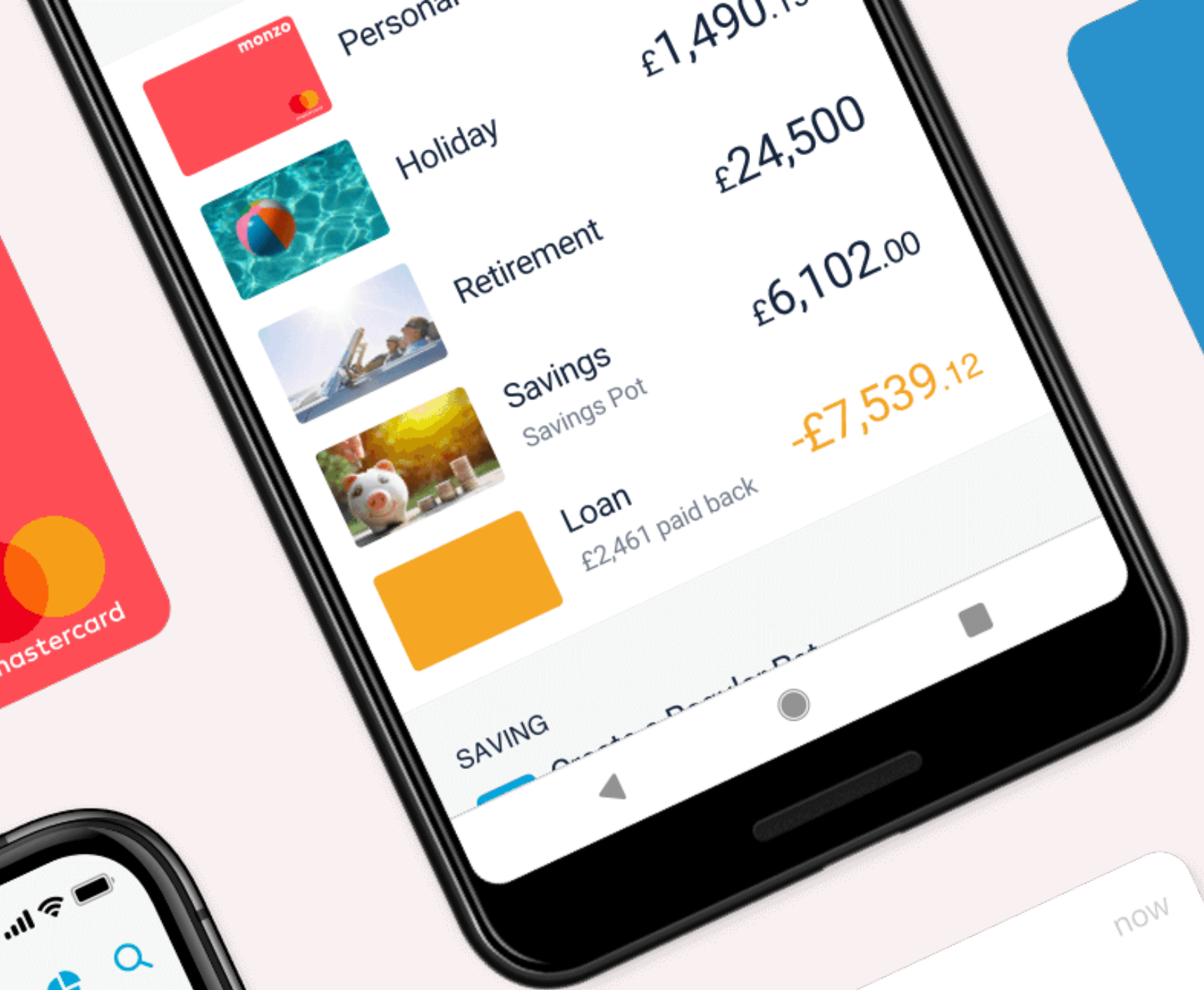
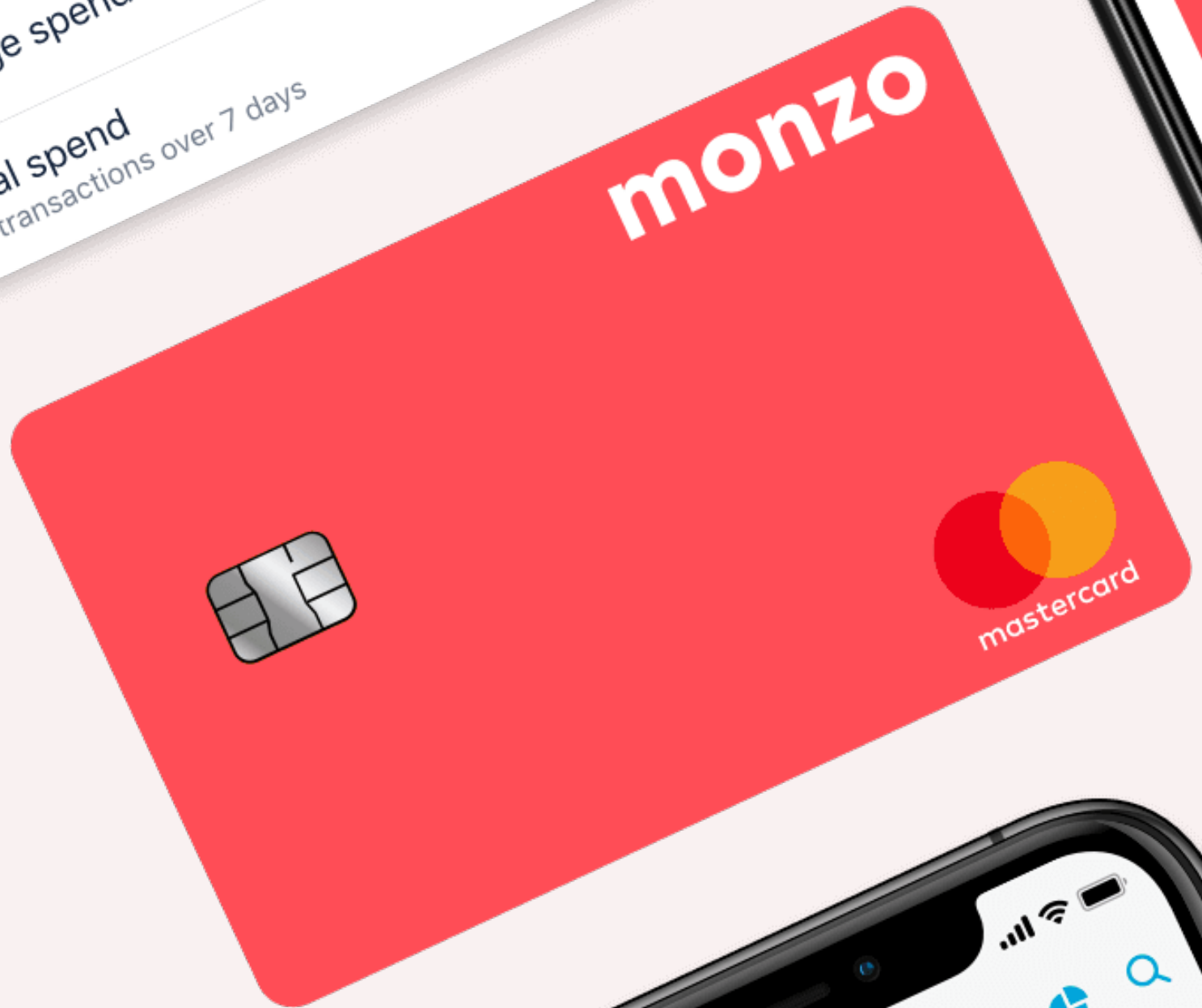


The background of the image is a dark blue-grey color, densely populated with a pattern of plus signs (+). The plus signs are rendered in a light grey or off-white color and are scattered across the entire frame, creating a textured, grid-like effect. The text is centered horizontally and vertically over this pattern.

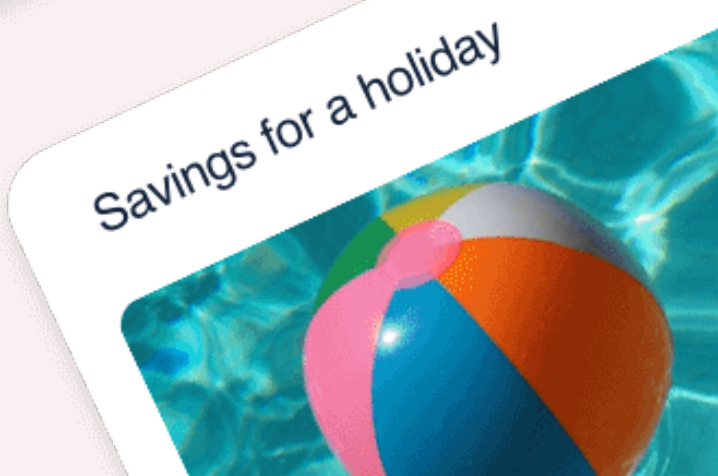
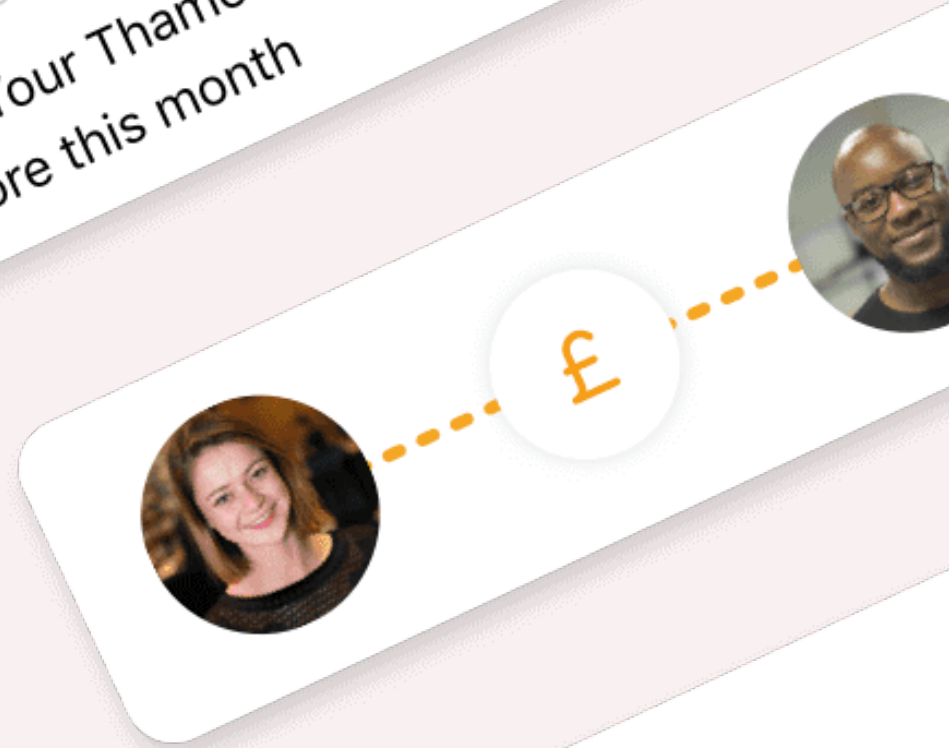
**Making standards the
standard**

Number of transactions
Average spend
Total spend
23 transactions over 7 days

£500
£25 + €514.53



MONZO
Your Thames water bill is £15 more this month



Monzo Incident

No more avocados in the basement

✓ CLOSED · #inc-116

Summary Edit

Severity:
Impact: What am I supposed to put on my toast?
Reporter: @sophie
Lead: no lead set
Start time: 6 Sep 2019, 10:09 GMT+1
Report time: 6 Sep 2019, 10:09 GMT+1
End time: 6 Sep 2019, 11:09 GMT+1

Actions + New

Stuff @milesbryant
 Done:

Timeline + New



06/09/2019

- 12:11:00 👉 👈
- 12:11:00 👉 👈

monzo About Blog Community Help Sign up

Banking made easy

55,000 people open a Monzo bank account every week to spend, save and manage their money. Join them in less than 10 minutes.

[Get a Monzo Bank account](#)  


Join the 2,974,274 people with a Monzo bank account

[Download on the App Store](#) [GET IT ON Google Play](#)

NEW ON MONZO

Get paid... a day early

Put your salary into Monzo and we can advance you the cash one day early. No cost, no hassle. Just more time with your money.



Quick actions ⌘ k

Current Joint

Referrals [Fix referral]

Customer referral details

Referral code	cgizhof
Eligible	Yes
Referral type(s)	Give and get £5

Customer referred by

Ian McKellen	Yes	***
Beth Gee	No	***
Naomi Willis	Yes	***
Jack Cumberbatch	Yes	***

[Show all](#)

- PIN recovery**
- Transferwise**
- Audit log**

Save

Earn up to 1.71% (AER/Gross) interest on your savings. Put money aside into separate Pots and watch the pennies turn into pounds by automatically rounding up your spare change.

[FIND OUT MORE](#)

monzo.me Sign up

Send money instantly with just a name

Pay anyone with a Monzo account through their Monzo.me page. Split dinner, share the bill or just send a little present. We send the money instantly, for free.

Enter their username to send money to:

monzo.me/username

If you want to send money through Monzo.me
 You don't need a Monzo account to get going. Just find out the Monzo.me username of the person you want to send money to.

If you want to get money through Monzo.me
 If you've already got a Monzo account, go to your Payments tab then tap Request to find your Monzo.me link.

If you're not on Monzo yet, set up an account in just a few minutes. You'll get your own Monzo.me username as soon as your account's open, so you can receive money straight away.

We'll store data you submit through Monzo.me

- To make sure we're complying with financial regulations.
- So we can track where money is coming and going.
- To help improve the service.

Monzo isn't your typical banking app

[Download on the App Store](#) [GET IT ON Google Play](#)

[Learn more about Monzo](#)

Blog **Community** **Careers** **Press** **API**

monzo

Welcome to Monzo for Emergencies

If you've lost your phone, or there's any other reason you can't get into your Monzo app, log in here to see a stripped-back version of your account.

It's just for emergencies, so you'll only be able to:

- ✓ See your account balance
- ✓ See your list of accounts
- ✓ See your transactions
- ✓ Freeze and unfreeze your card

[Cancel and go back](#)

BizOps Hub Filters (2) Sort by

Chat: Bingo Dougnose 2m ago

Hi how are you, I ate my card so I need a new one, can you send it asap?

Chat: Tom MacMonier 1hr ago

Anthea Jackson: User having issues, looks like an old version, checking with a troubleshooter

Chat: Sophie Moomin 1m ago

Anthea Jackson: Hi Sophie, let me see what I can do for you, could you try updating the a...

Tag Escalate Reassign Pause Close

Quick actions ⌘ k

Current Joint

Referrals [Fix referral]

Customer referral details

Referral code	cgizhof
Eligible	Yes
Referral type(s)	Give and get £5

Customer referred by

Ian McKellen	Yes	***
Beth Gee	No	***
Naomi Willis	Yes	***
Jack Cumberbatch	Yes	***

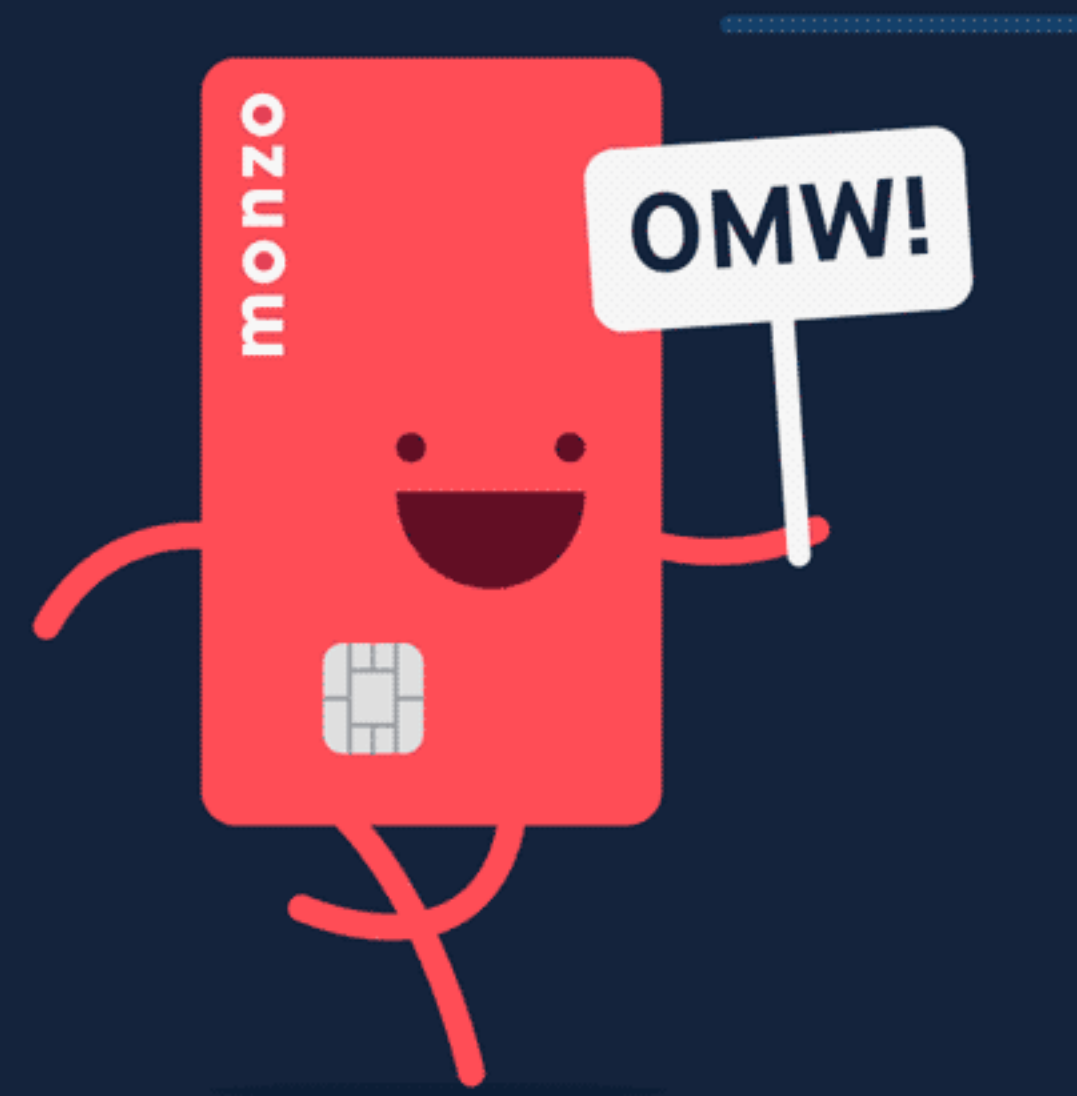
[Show all](#)

- PIN recovery**
- Transferwise**
- Audit log**

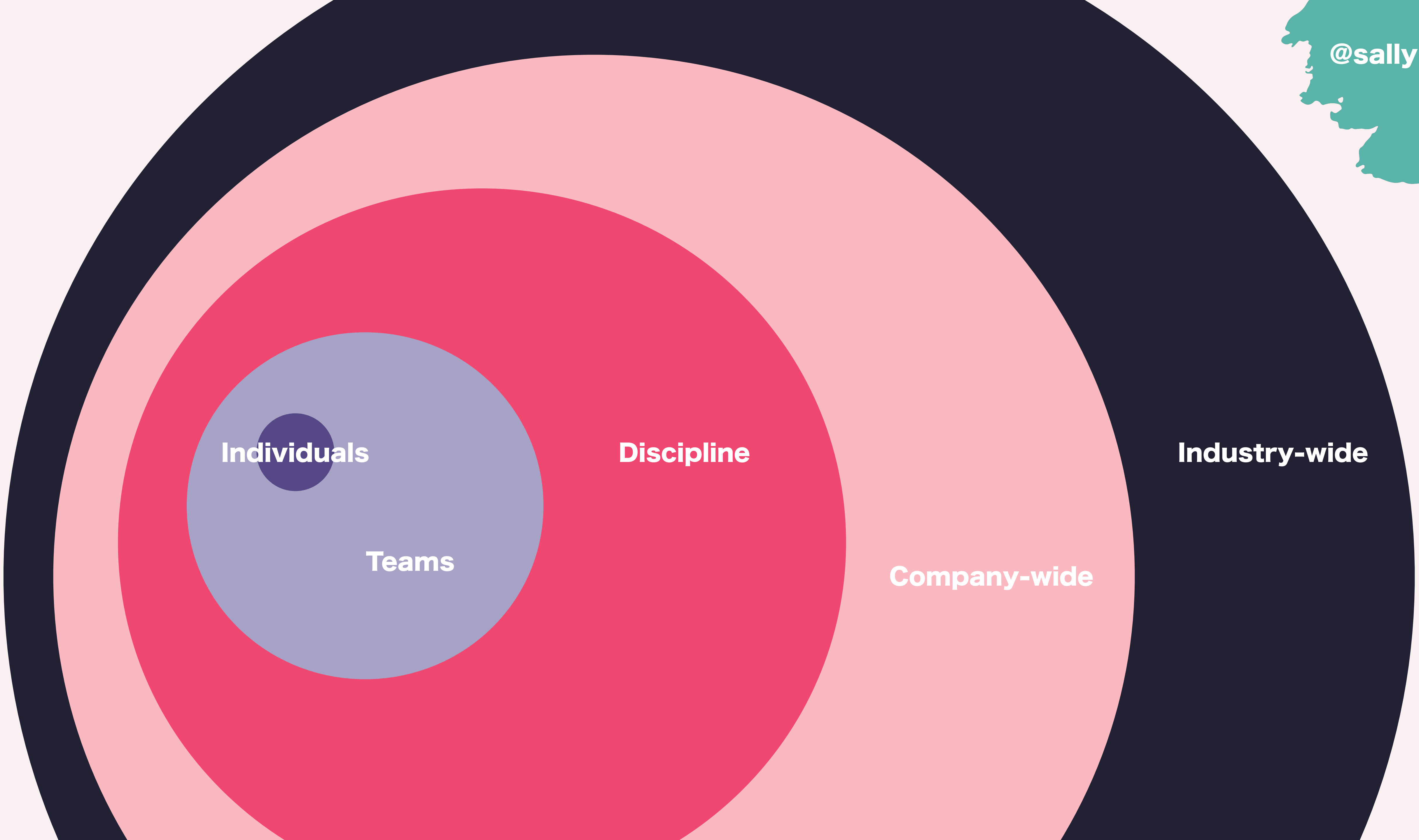
Customer having issues, looks like an old version, checking with a troubleshooter. a few seconds ago

Reply Note

Type or enter a saved response...







- 1 Don't know**
- 2 Don't care**
- 3 Can't prioritise**



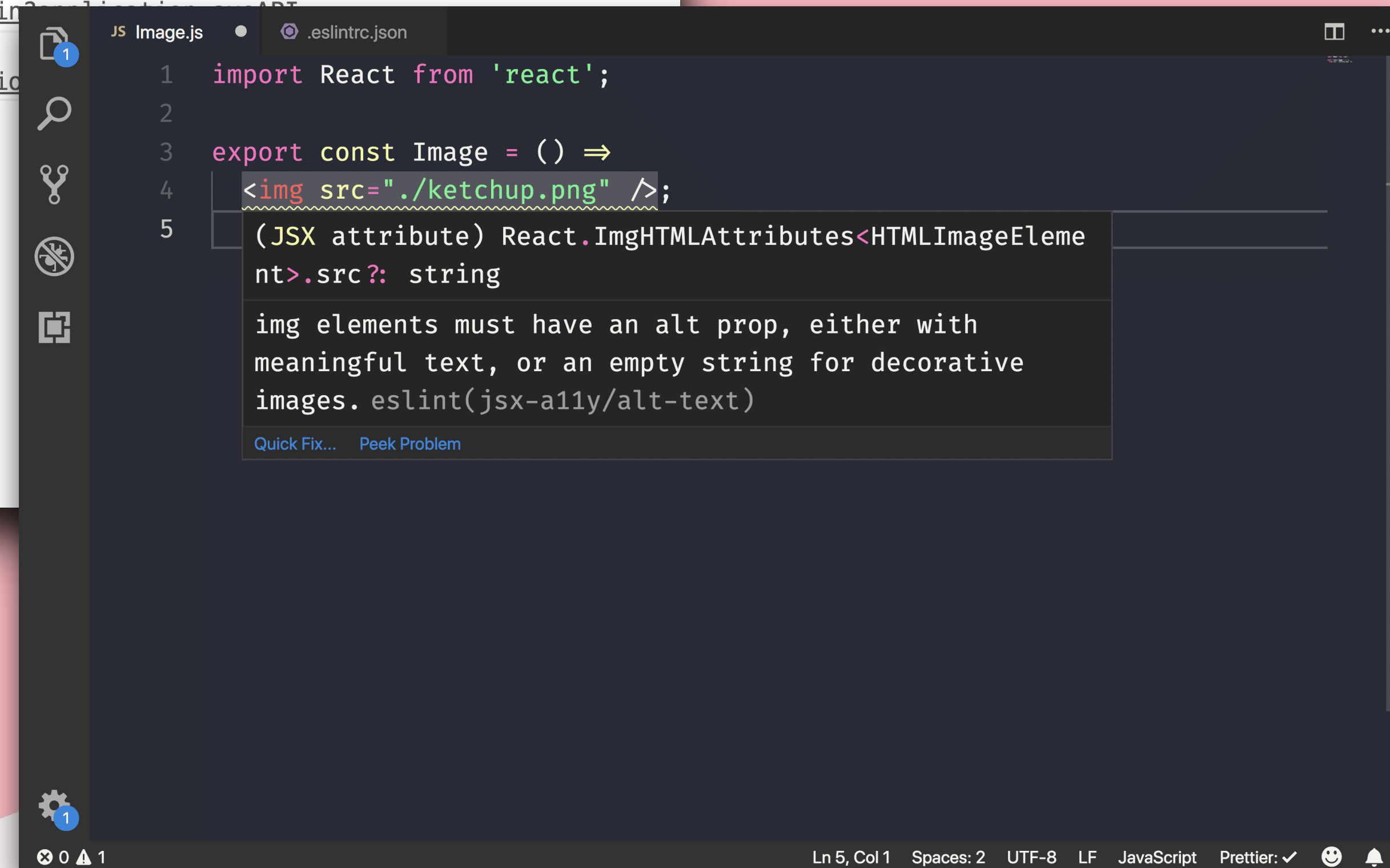
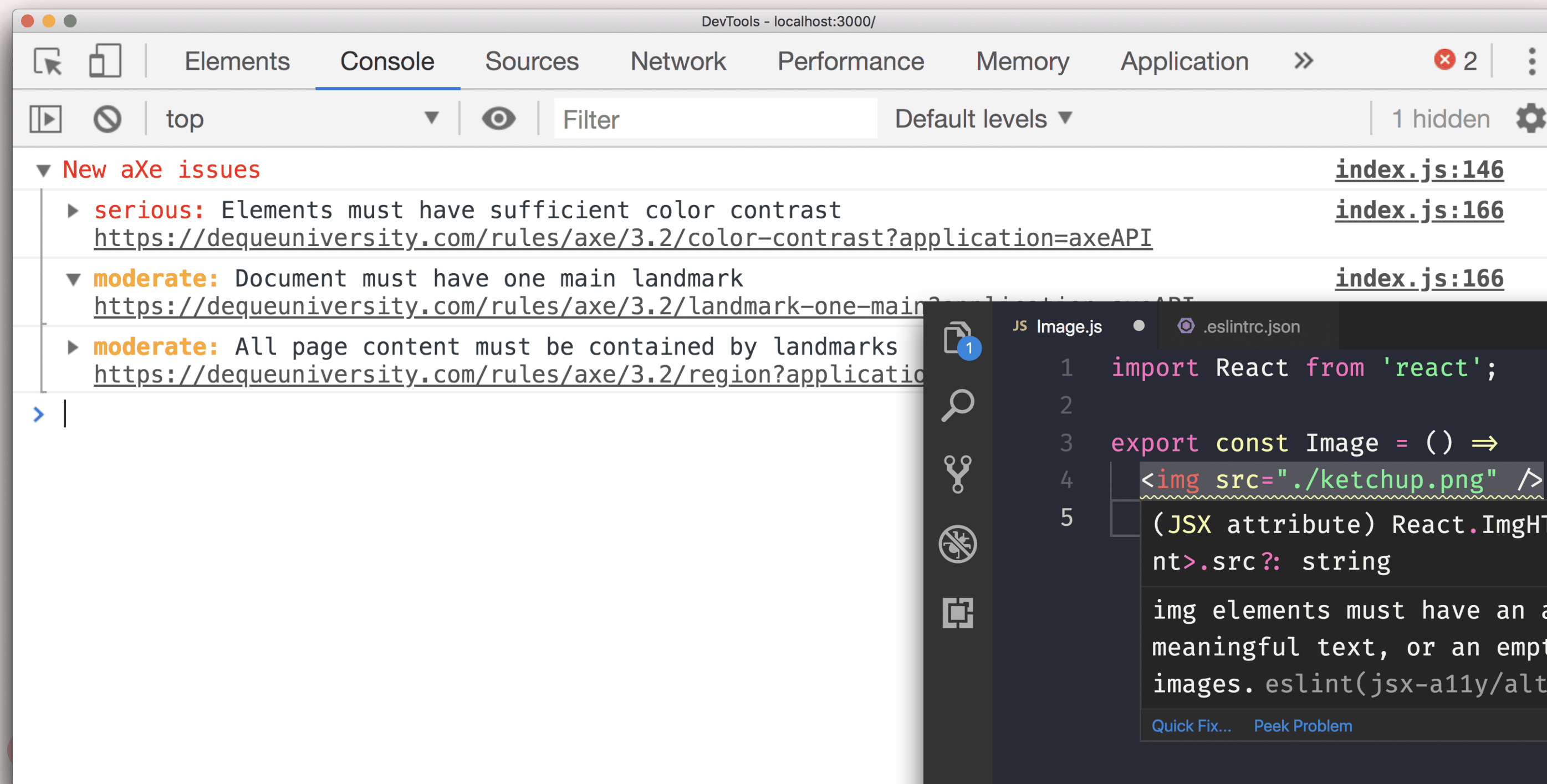
When people don't know

Tell people 1:1



Knowledge **sharing**





**Make it easy
to know**

Think about your **structure**



Grow your (and others') influence





Designing for users on the autistic spectrum

Do...	Don't...
use simple colours	use bright contrasting colours
write in plain English Do this.	use figures of speech and idioms
use simple sentences and bullets	create a wall of text
make buttons descriptive	make buttons vague and unpredictable
build simple and consistent layouts	build complex and cluttered layouts

Designing for users of screen readers

Do...	Don't...
describe images and provide transcripts for video <code><alt></code>	only show information in an image or video
follow a linear, logical layout	spread content all over a page
structure content using HTML5 <code><h1></code> <code><nav></code> <code><label></code>	rely on text size and placement for structure 36pt, bold <code>IHeader</code>
build for keyboard use only	force mouse or screen use
write descriptive links and headings <code>Contact us</code>	write uninformative links and headings <code>Click here</code>

Designing for users with low vision

Do...	Don't...
use good colour contrasts and a readable font size Aa	use low colour contrasts and small font size Aa
publish all information on web pages	bury information in downloads
use a combination of colour, shapes and text Start >	only use colour to convey meaning
follow a linear, logical layout	spread content all over a page
put buttons and notifications in context	separate actions from their context

Designing for users with physical or motor disabilities

Do...	Don't...
make large clickable actions	demand precision
give form fields space	bunch interactions together
design for keyboard or speech only use Tab	make dynamic content that requires a lot of mouse movement
design with mobile and touchscreen in mind	have short time out windows
provide shortcuts <input type="text" value="Postcode"/> <input type="button" value="Find address"/>	tire users with lots of typing and scrolling <input type="text" value="Address"/>

Designing for users who are Deaf or hard of hearing

Do...	Don't...
write in plain English Do this.	use complicated words or figures of speech
use subtitles or provide transcripts for videos	put content in audio or video only
use a linear, logical layout	make complex layouts and menus
break up content with sub-headings, images and videos	make users read long blocks of content
let users request an interpreter for appointments	don't make telephone the only means of contact with users

Designing for users with dyslexia

Do...
use images and diagrams to support text
align text to the left and keep a consistent layout
consider producing materials in other formats (for example audio or video)
keep content short, clear and simple
let users change the contrast between background and text

	Permanent	Temporary	Situational
Touch	 One arm	 Arm injury	 New parent
See	 Blind	 Cataract	 Distracted driver
Hear	 Deaf	 Ear infection	 Bartender
Speak	 Non-verbal	 Laryngitis	 Heavy accent

github.com/UKHomeOffice/posters/
microsoft.com/design/inclusive/

Give it visibility

Give it visibility





When people don't care

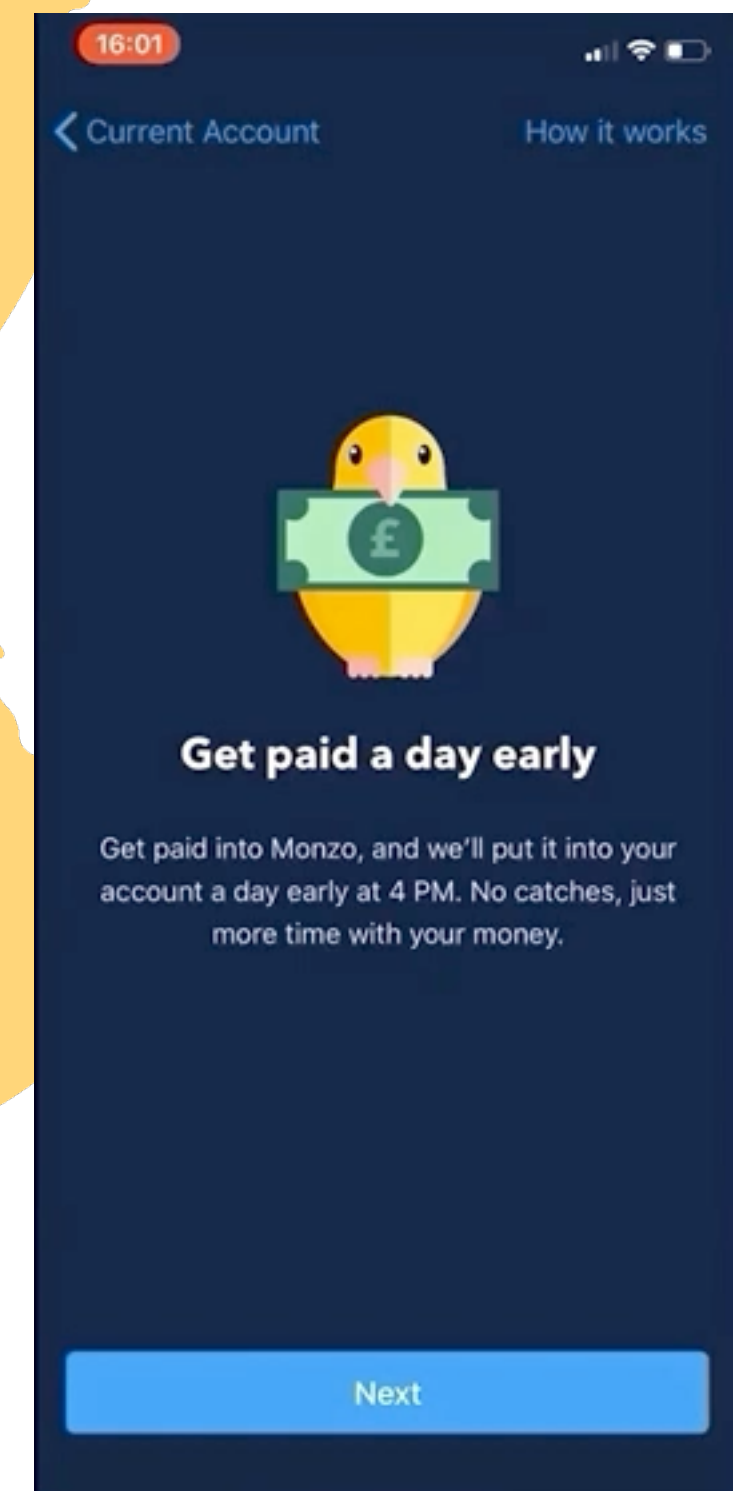
Tell stories

Not a question, but rather a compliment I really wanted to share with you ❤️ (if that's OK to do, let me know if this isn't the right channel!) This customer was incredibly happy that we made Paid Early accessible so quickly and so they said:

"Thank you for being so quick to make this feature accessible to voice-over users. The app is a breeze to use, and this is why Monzo is now my main bank."

I just think is amazing how we can be so super helpful in this kind of way. Made me smile

😊 (edited)



Tell stories

Monzo @monzo · May 22
Introducing... our new TV ad! 🎉

We'd love to hear what you think. After all... #YouMakeMonzoMonzo



1:00 59.3K views

148 346 1.6K

Tony Sutton @tony_sutton
Replying to @monzo
would be even better if subtitled.... :) #deaf

6:51 PM · May 22, 2019 · Falcon Pro Material

1 Like

Monzo @monzo · May 23
Replying to @tony_sutton
We've sorted you out, Tony! You'll be able to see the captions on our YouTube videos 🙌

Tony Sutton @tony_sutton · May 23
Most excellent, thank you.

twitter.com/tony_sutton/status/1131256182163812352

Ataul Munim May 23rd at 12:10 AM
? can we add captions to the YouTube video of the advert?
https://twitter.com/tony_sutton/status/1131256182163812352?s=19

Tony Sutton @tony_sutton
@monzo would be even better if subtitled.... :) #deaf
Twitter | May 22nd

12 replies

Natalie Ledward 🌴 4 months ago
@richardcook 🙏 would this be possible?

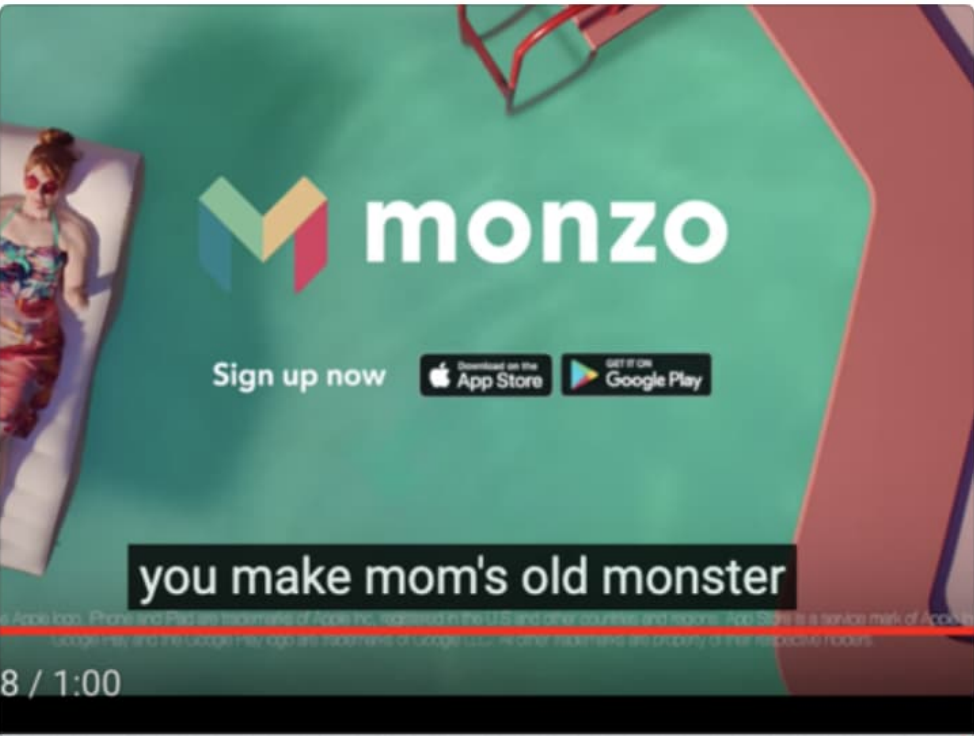
Wayne Tsai 🍋 4 months ago
<https://monzo.slack.com/archives/CFLPCCQEN/p1558598875000100> (more of a joke sorry)

Monzo Top Pieces - Headline and Summary
Lorraine : 23rd May, 07:55 AM GMT
We're a bank called Monzo. Oh! I want a bank that shows me what I spend, instantly. No problem, just give us a go. BEEP/BLIP See? Can you make splitting bills
Posted in #press-pieces-auto | May 23rd | [View message](#)

Ataul Munim 4 months ago
😂 is this trying to transcribe the video automatically?

Wayne Tsai 🍋 4 months ago
I think so...

Richard Cook 🙌 4 months ago
adding some now, although I really do enjoy this
Screenshot 2019-05-23 at 10.07.45.png



8 / 1:00

3 1 1

Don't (overly) rely on documentation



Build your **culture** (and a diverse team)



Force people to care!

@sallylait

The screenshot shows a web browser window displaying the 'Web Engineering Framework' page on progression.monzo.com. The page is organized into a grid of skill categories, each with a list of specific tasks or behaviors. A sidebar on the left contains navigation links for various departments and a collapsed 'Engineering' section. The top right of the page features a 'Levels' indicator with a scale from 1 to 6.

Engineering Levels
1 2 3 4 5 6

Web Engineering Framework

- Communication**
 - Provides regular status updates to their mentor/buddy
 - Points out syntactical improvements in code reviews
 - Writes PR descriptions that provide basic context for the change
 - Seeks guidance from other engineers, rather than answers
 - Actively communicates what they are working on
 - Seeks out feedback
- Impact**
 - Delivers assigned tasks, working with a more senior team member, and able to take PR feedback to improve their work
 - Independently works on small, low-impact, well-defined task
 - Looks to optimise existing work (eg Processes, procedures, products, etc)
- Influence**
 - Improves documentation that is incorrect
- Mastery**
 - Learns to write semantic HTML and CSS following guidance and training materials
 - Learns to write correct JavaScript following guidance and training materials
 - Uses Chrome, React, and Redux DevTools effectively to increase productivity during development and debugging
 - Implements simple components
 - Fixes simple bugs

Design +

Engineering -

- Backend
- Data
- Mobile
- Quality

progression.monzo.com

Level 2 web engineer

- Uses a keyboard and screen-reader to manually test their application for accessibility issues
- Runs automated auditing tools such as Lighthouse before submitting a PR for review
- Demonstrates awareness of a range of security considerations, and mitigates against them
- Has multiple examples of where performance was considered as part of a solution

Level 3 web engineer

- Promotes accessibility good practice and helps other engineers to deepen their accessibility knowledge, including demonstrating how to use screen readers
- Promotes security good practice and helps other engineers to deepen their security knowledge
- Promotes performance good practice and helps other engineers to deepen their performance knowledge

Level 4 web engineer

- Keeps up to date with industry developments and feeds specific technical and non-functional recommendations back into the business
- Proactively identifies opportunities to improve company culture around coding standards and non-functional requirements



**When people can't
prioritise**

Logic & data

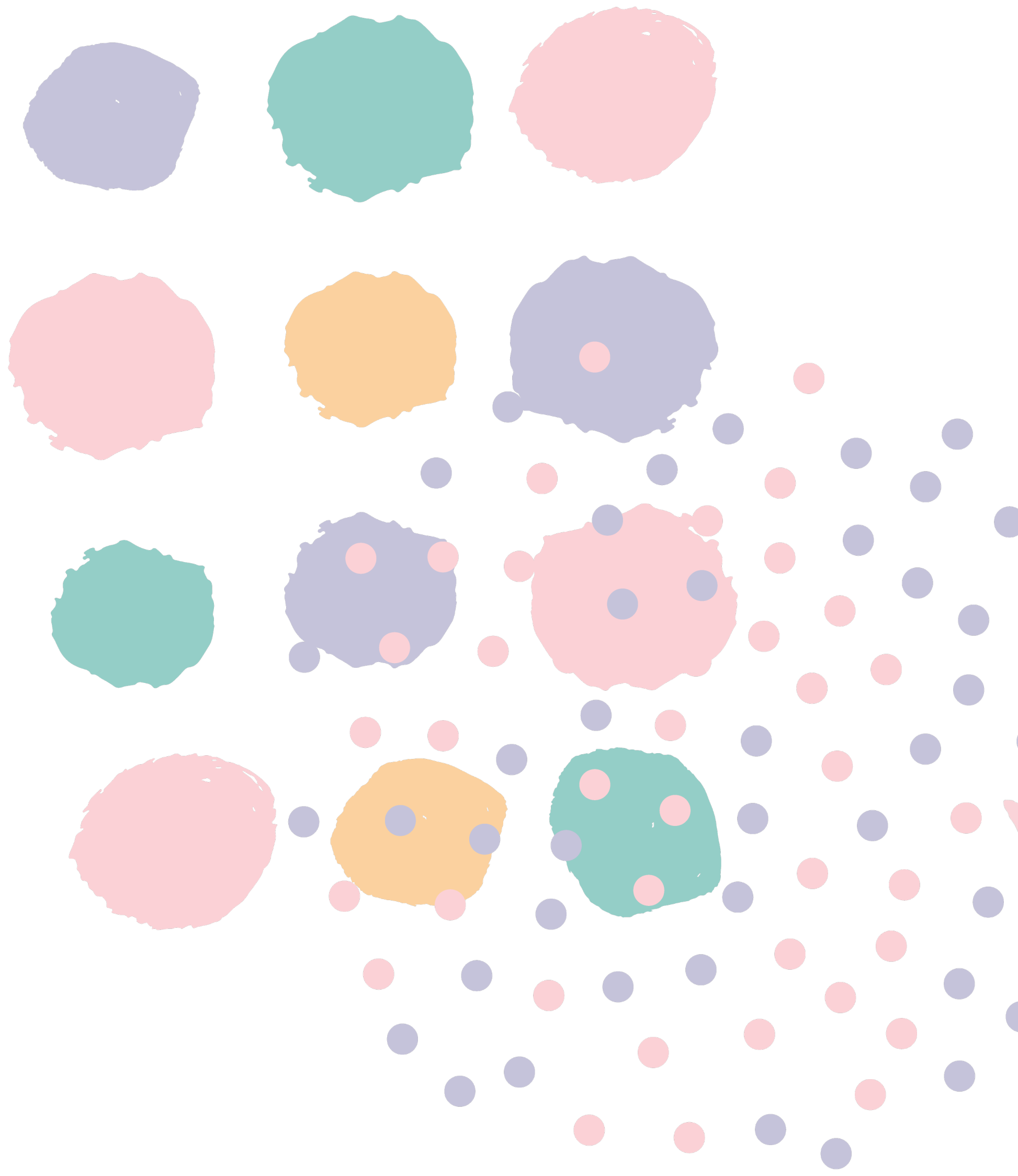


@sallylait

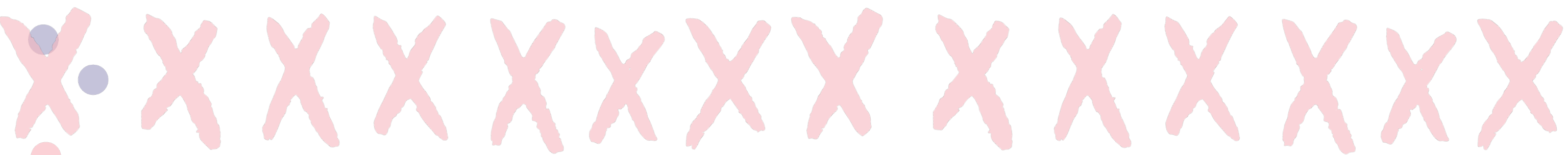
The screenshot shows a web browser displaying a Guardian article. At the top, there's a navigation bar with 'Support The Guardian' and 'The Guardian' logo. Below that, a menu lists 'News', 'Opinion', 'Sport', 'Culture', and 'Lifestyle'. The article title is 'Beyoncé's Parkwood Entertainment sued over website accessibility'. A sub-headline reads 'A lawsuit claims beyonce.com violates the Americans With Disabilities Act by failing to accommodate visually impaired users'. A photo of Beyoncé is featured below the text. An advertisement for Apple products is visible on the right side of the article.

Scare them!

theguardian.com/music/2019/jan/04/beyonce-parkwood-entertainment-sued-over-website-accessibility



Do it regardless





State intent



Use your
platform for
good





Focus, and do something well

State of the Browser
conference
September 2019

Thanks!



Sally Lait
@sallylait
sally.dev

