The human side of a Design System

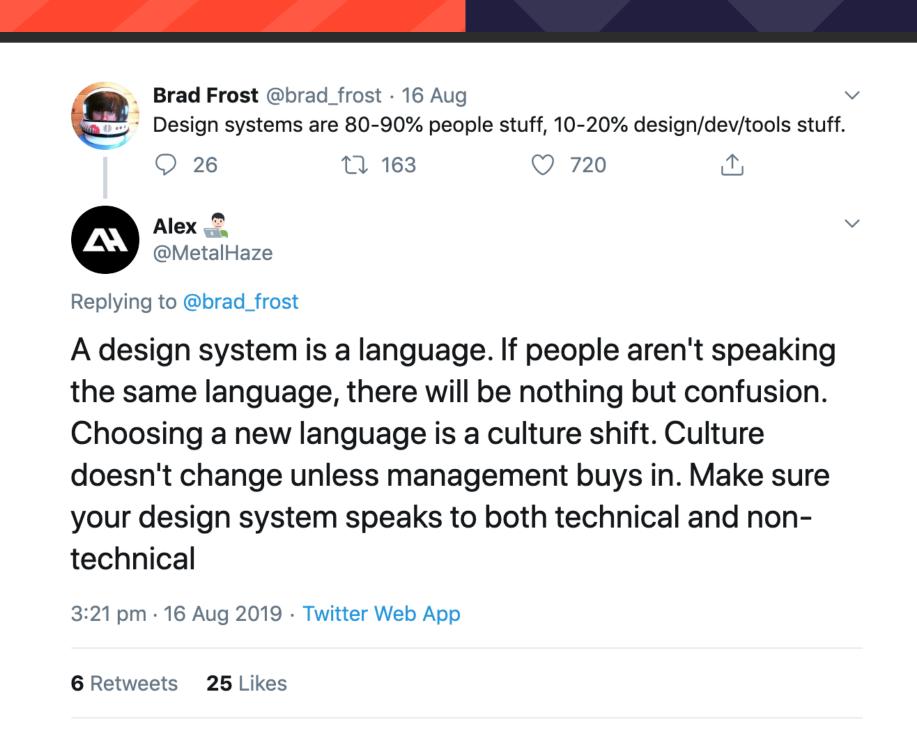
#DesignSystemsLondon



Design systems are 80-90% people stuff, 10-20% design/dev/tools stuff.

3:13 pm · 16 Aug 2019 · Twitter Web App

163 Retweets **720** Likes



Hi! I'm Bernardo

TravelRepublic @braposo



2yrs ago: the design system is the documentation

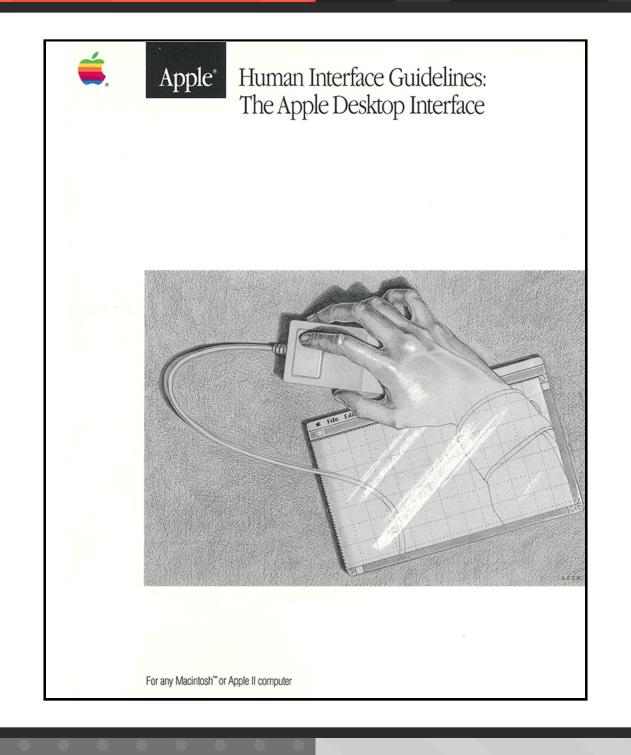
1yr ago: the design system is our code

Today: a design system is a mirror of all the relationships between designers and managers and engineers

6:30 pm · 19 Mar 2019 · Tweetbot for Mac

38 Retweets 308 Likes

Design System is the documentation



General design principles

Principles of graphic communication

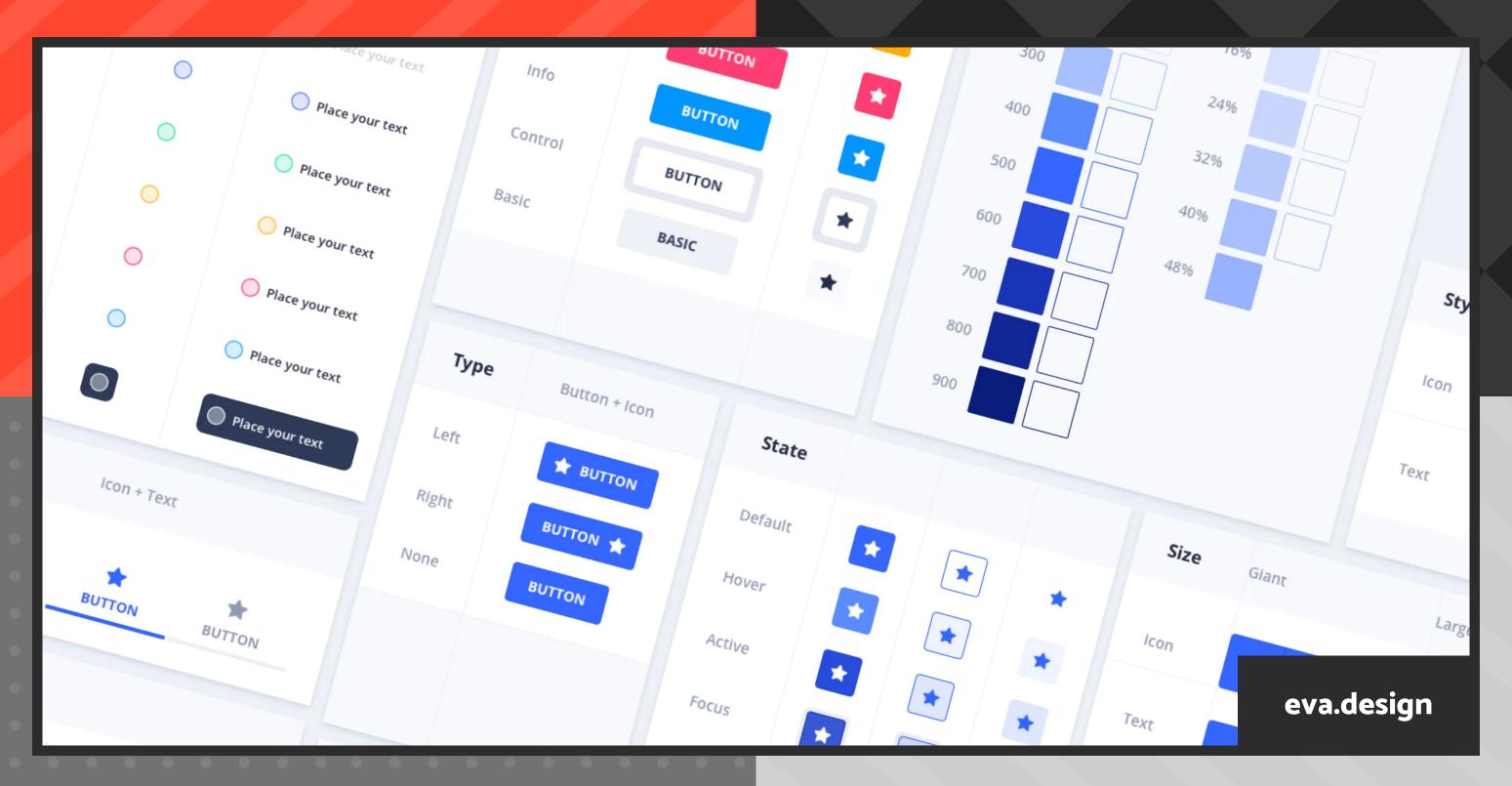
A strategy for programming

Designing for disabled people

Elements of the Desktop Interface



atomicdesign.bradfrost.com





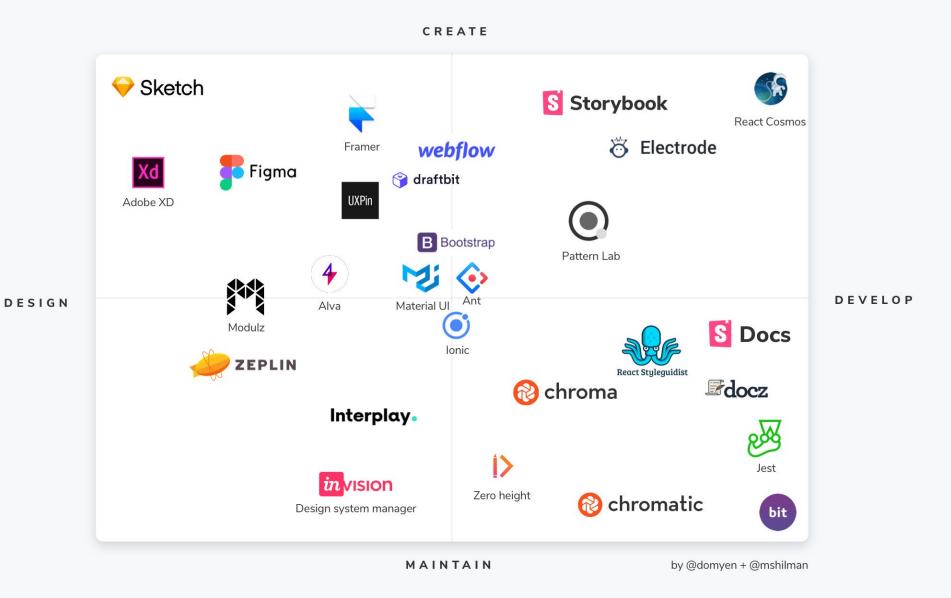
A component library isn't a design system.

In order to qualify as a design system, it also needs to have a bunch of documentation nobody reads.

1:44 am · 5 Oct 2019 · Twitter for Android

238 Retweets 1.8K Likes

Component-Driven Development 2019





The design system's manual is not the design system.

3:07 am · 12 Oct 2019 · Twitter for Android

2 Retweets 30 Likes

Design System is the code



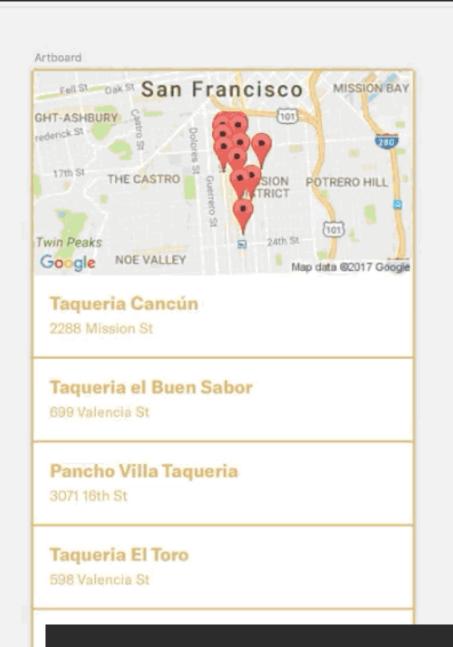
220 votes · Final results

Is the latest design system or a style guide that you've recently built and launched, still up-to-date (and usable) today?

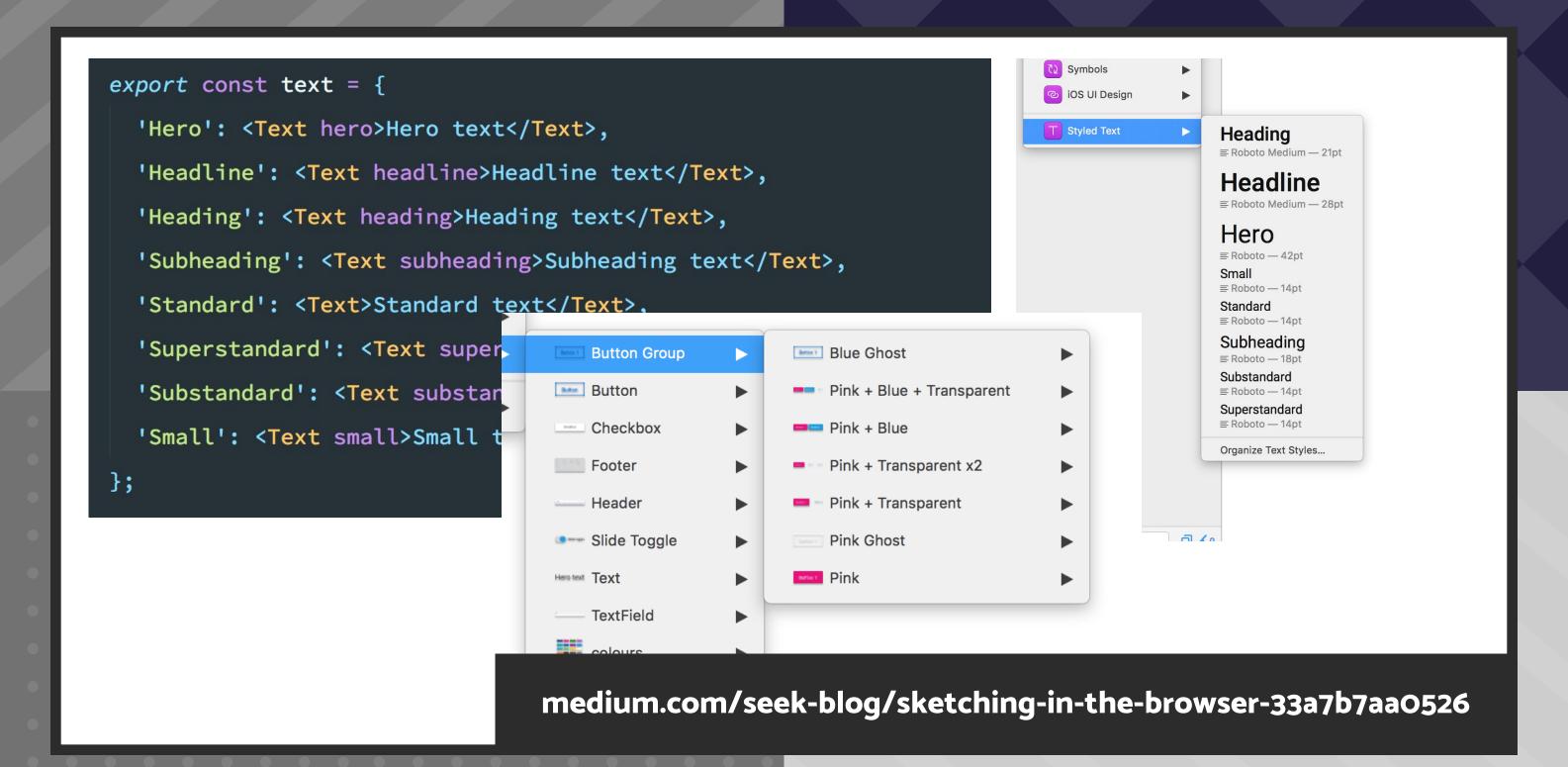
es, absolutely!
outdated but usable!
outdated and unusable.
Ve've given up on it.

Code in Design Tools

```
import param from 'jquery-param';
const SAN_FRANCISCO = {
  latitude: '37.7617',
  longitude: '-122.4216',
};
const BERLIN = {
 latitude: '52.4986',
 longitude: '13.3918',
};
export default (platformFetch) => {
  const query = 'taqueria';
  const { latitude, longitude } = SAN_FRANCISCO;
  const params = param({ --
  });
  return platformFetch(`https://api.foursquare.com/v2/venues/search
    .then(res => res.json())
    .then(data => ({
     venues: data.response.venues,
     latitude,
      longitude,
      query,
    }));
};
```



airbnb.design/painting-with-code



Rendering web content into Sketch is incredibly powerful, but our industry needs to take this even further. We need design tools that don't merely imitate the target medium—we need them to be actually built on it.

Mark Dalgleish - Sketching in the Browser

Design in Code



Most of my frontend work at Stripe begins in our internal sketchpad tool, which gives me full access to our design system and offers shareable, fork-able links.

It's a neat way to prototype out features and share it with any Stripe employee. You should build one for your team.

```
→ How we work

 259 <SectionSubheading>Get in touch</SectionSubheading>
 260 <IconLink type="jira">Billing requests</IconLink>
 262 <IconLink type="jira">Invoice-specific requests</IconLink>
 263 <IconLink type="jira">Product feedback</IconLink>
 265 <IconLink type="slack">Questions</IconLink>
                                                                                              SG 0900-1700 (GMT+8) II IE 0900-1700 (GMT+1)
                                                                                              MY 0900-1700 (GMT-5) SF 0900-1700 (GMT-8)
269 const Lists = () => (
 271 <SectionSubheading>Join our lists</SectionSubheading>
                                                                                               X Billing charter
                                                                                              K Calendar
                                                                                              M Billing FAQ
 276 <aside style={{width: 400}}>
                                                                                              GET IN TOUCH
 277 <Group spacing={16}>
                                                                                               Rilling requests
 280 <Contact />
 282 </Group>
                                                                                              M Urgent requests / after hours
 283 </aside>
                                                                                               JOIN OUR LISTS
286 export default () => (
287 <Box
288 style={{height: '100vh'}}
290 >
291 <Sidebar />
```

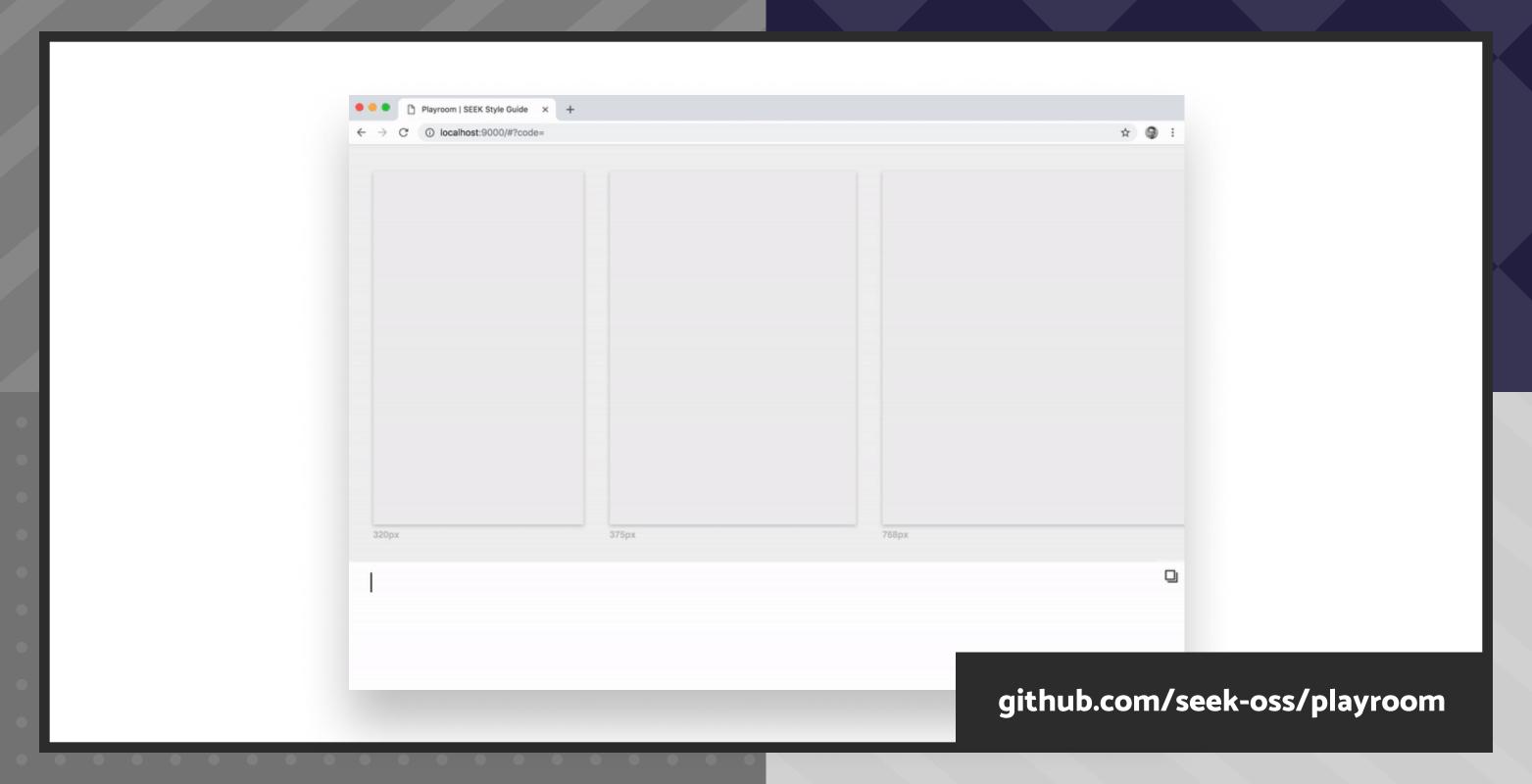
4:42 pm · 22 Oct 2019 · Twitter Web App

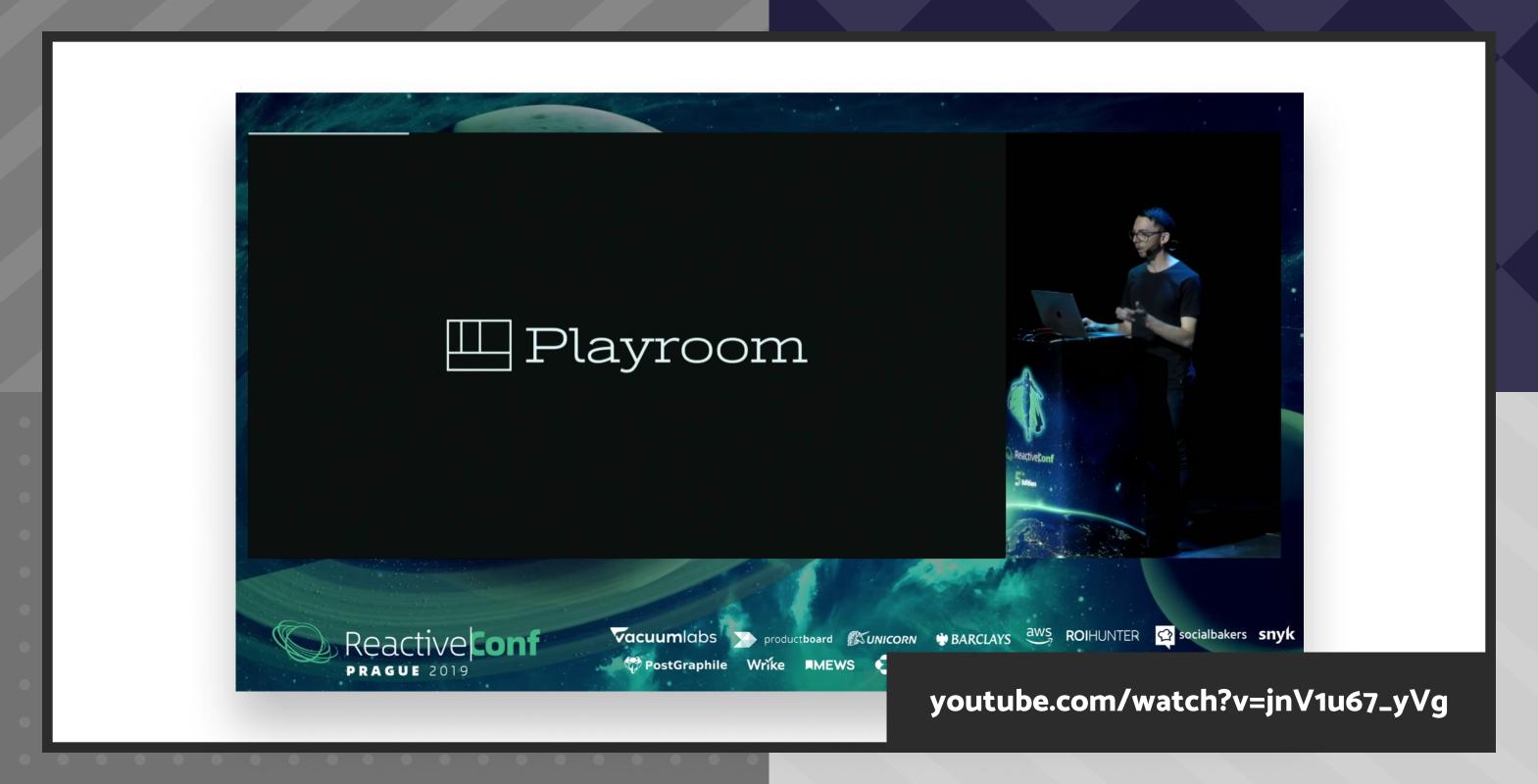
18 Retweets 324 Likes

```
→ How we work

                                                                           Save #S ...
       <ur>spacing={o}>
         <SectionSubheading>Get in touch</SectionSubheading>
         <IconLink type="jira">Billing requests</IconLink>
261
         <IconLink type="jira">Subscription-specific requests</IconLink>
         <IconLink type="jira">Invoice-specific requests</IconLink>
263
         <IconLink type="jira">Product feedback</IconLink>
         <IconLink type="gmail">Urgent requests / after hours</IconLink>
         <IconLink type="slack">Questions</IconLink>
267 );
268
269 const Lists = () => (
       <Group spacing={8}>
         <SectionSubheading>Join our lists</SectionSubheading>
273 );
274
275 const Sidebar = () => (
       <aside style={{width: 400}}>
277
         <Group spacing={16}>
278
           <WorkingHours />
279
           <Docs />
280
           <Contact />
281
           <Lists />
         </Group>
283
       </aside>
284 );
286 export default () => (
287
         style={{height: '100vh'}}
         flex={{alignItems: 'center', justifyContent: 'center'}}
         <Sidebar />
       </Box>
293 );
```

WORKING HOURS SG 0900-1700 (GMT+8) | IE 0900-1700 (GMT+1) MY 0900-1700 (GMT-5) SF 0900-1700 (GMT-8) READ OUR DOCS **X** Billing Home ★ Billing marketing site **Billing** charter **K** Calendar M Billing FAQ **GET IN TOUCH** Billing requests ₹ Subscription-specific requests ₹ Invoice-specific requests Product feedback M Urgent requests / after hours **Questions** JOIN OUR LISTS







Replying to @braposo

The more advanced our design system gets, the less sense it makes to perform a lossy translation back to static illustration tools.

Yes, we make changes to the code based on input from designers.

10:55 pm · 25 Oct 2019 · Twitter for Android

1 Like



Replying to @markdalgleish and @braposo

We're pushing consumers, including designers, to use our Playroom if they want to design with the system: seek-oss.github.io/braid-design-s...

10:02 pm · 25 Oct 2019 · Twitter for Android

2 Likes



Designer: How do I use the design system?

Me: You install it from npm.

Designer:



8:10 am · 22 Oct 2019 · Twitter for Android

23 Retweets 281 Likes

Design System is the relationships



A design system isn't just a library of assets with some documentation, it's how you collaborate and communicate between teams and disciplines.

@natalyathree at #cssday



3:23 pm · 14 Jun 2019 · Twitter for Android

43 Retweets 153 Likes





Before design systems: Drawing whatever you want.

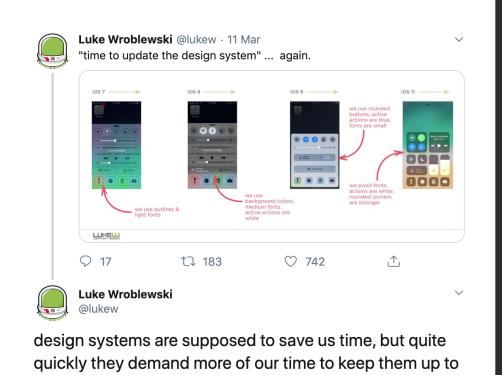
After design systems: Drawing whatever you want—then asking if the design system can do it.

12:28 am · 8 Oct 2019 · Twitter for Android

30 Retweets 298 Likes



When someone spends months building a component



date & thereby useful.

61 Retweets 296 Likes

5:03 pm · 11 Mar 2019 · Twitter Web Client

Designers

Developers

Managers

Relationships are based on trust and being present



11:33 am · 20 Oct 2019 · Twitter Web App

Doing some research for my <u>#DesignSystemsLondon</u> talk, any help is very much appreciated!

How many parts (documentation, design files, components, prototypes) of your design system are *automatically updated* if you change a primitive/token (let's say the primary colour)?

Done (all manual)
Some (please specify)
Everything! (the dream)
132 votes · Final results

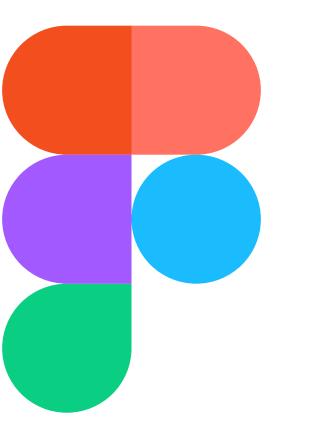
#DesignSystemsLondon

Design Systems can be the single point of failure

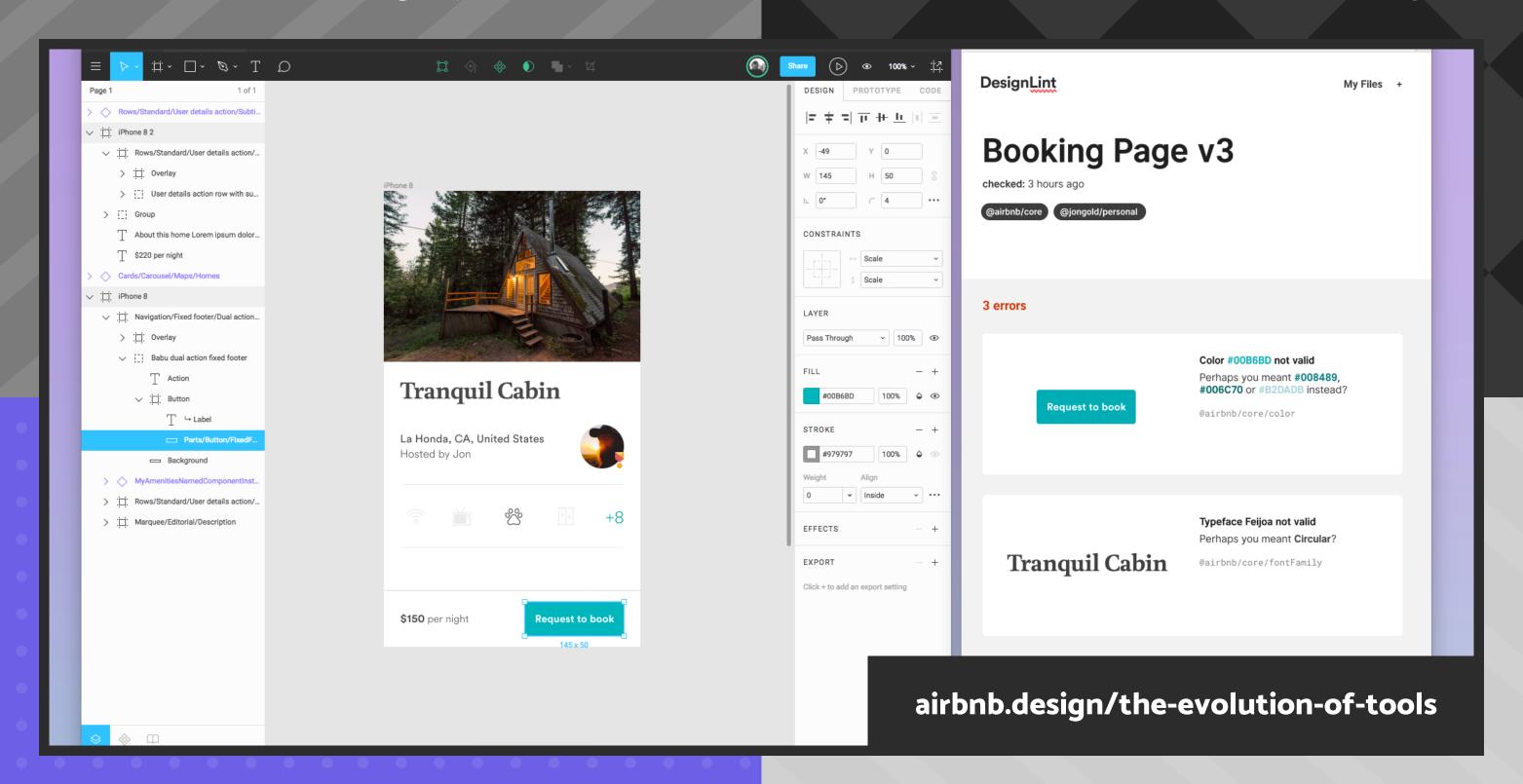
Make Design Systems more open

Make Design Systems more accessible

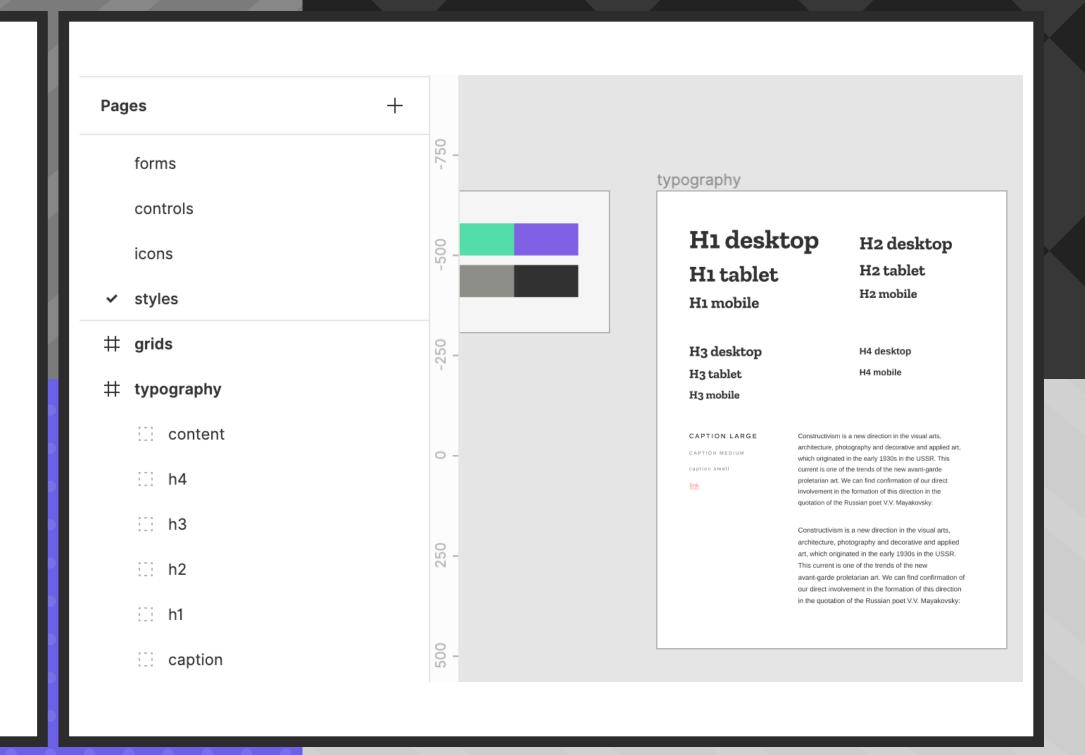
Make Design Systems more human



figma.com



Get all text styles in a specific frame



```
// 4 - Go through each group to extract font styles
                                                                                    21
                                                                                           const fontStyles = fontStylesArtboard.map(fontGroup => {
    async function getFontStyles(figmaId, figmaApiKey) {
                                                                                    23
                                                                                             return {
      // 1 - Fetch File info
                                                                                               name: fontGroup.name,
                                                                                    24
                                                                                               styles:
       const result = await fetch("https://api.figma.com/v1/files/" + figmaId, { 25
                                                                                                 fontGroup.children &&
                                                                                    26
         method: "GET",
                                                                                                 fontGroup.children.reduce((groupStyles, subFontItem) => {
                                                                                    27
        headers: {
                                                                                    28
                                                                                                   return {
           "X-Figma-Token": figmaApiKey
                                                                                    29
                                                                                                     ...groupStyles,
                                                                                    30
                                                                                                     [subFontItem.name]: {
      });
                                                                                                       family: `${subFontItem.style.fontFamily}`,
                                                                                    31
      const figmaTreeStructure = await result.json();
                                                                                                       size: `${subFontItem.style.fontSize}px`,
                                                                                    32
10
                                                                                                       weight: subFontItem.style.fontWeight,
                                                                                    33
      // 2 - Get styles page
11
                                                                                                       lineheight: `${subFontItem.style.lineHeightPercent}%`,
                                                                                    34
       const stylesPage = figmaTreeStructure.document.children.filter(item => {
12
                                                                                    35
                                                                                                       spacing:
         return item.name === "styles";
13
                                                                                                         subFontItem.style.letterSpacing !== 0
                                                                                    36
      })[0].children;
14
                                                                                                           ? `${subFontItem.style.letterSpacing}px`
                                                                                    37
15
                                                                                                           : "normal"
                                                                                    38
      // 3 - Get font styles artboard
16
                                                                                    39
      const fontStylesArtboard = stylesPage.filter(item => {
17
                                                                                                   };
                                                                                     40
        return item.name === "typography";
18
                                                                                                 }, {})
                                                                                    41
      })[0].children;
19
                                                                                             };
                                                                                    42
20
                                                                                           });
                                                                                    43
                                                                                    44
                                                                                           return fontStyles;
                                                                                    45
                                                                                    46
```

What if we could use something simpler?

Get all text styles in a specific frame

```
file(id: "fileID") {
  frames(name: "typography") {
    texts {
      name
      styles {
        fontSize
        fontFamily
        fontWeight
```

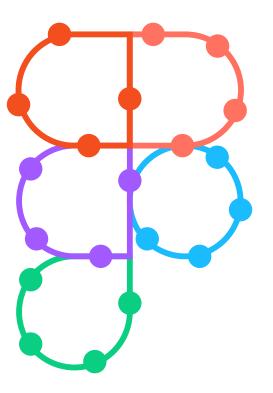


It took design tools about 5 years to notice React. I wonder how long it will take them to notice GraphQL.

9:44 pm · 26 Aug 2019 · Twitter for Android

40 Retweets 380 Likes

figma-graphql



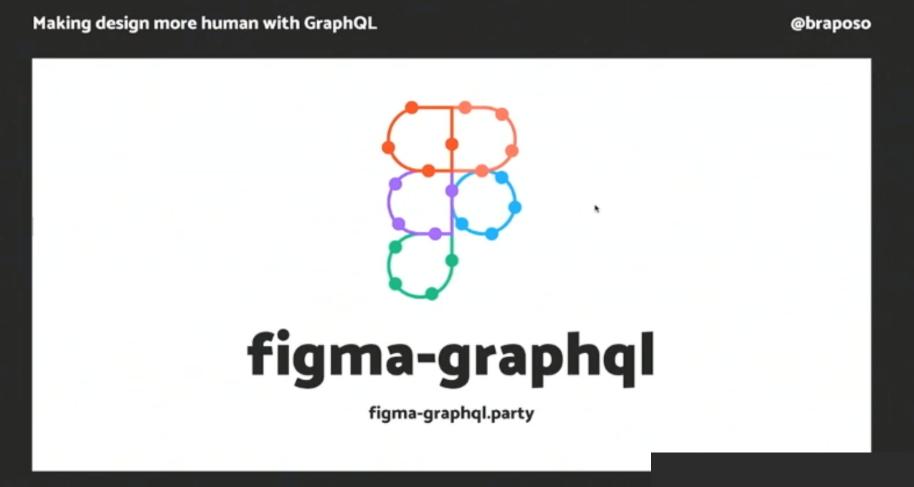
figma-graphql.party

GraphQL Conf



Bernardo Raposo Software Engineer TravelRepublic

TALK: MAKING DESIGN MORE HUMAN WITH GRAPHQL



brps.me/gqlconf19



Unpopular opinion: designers are smart and can learn new things.

9:28 am · 30 Oct 2019 · Twitter for Android

19 Retweets 325 Likes



PS



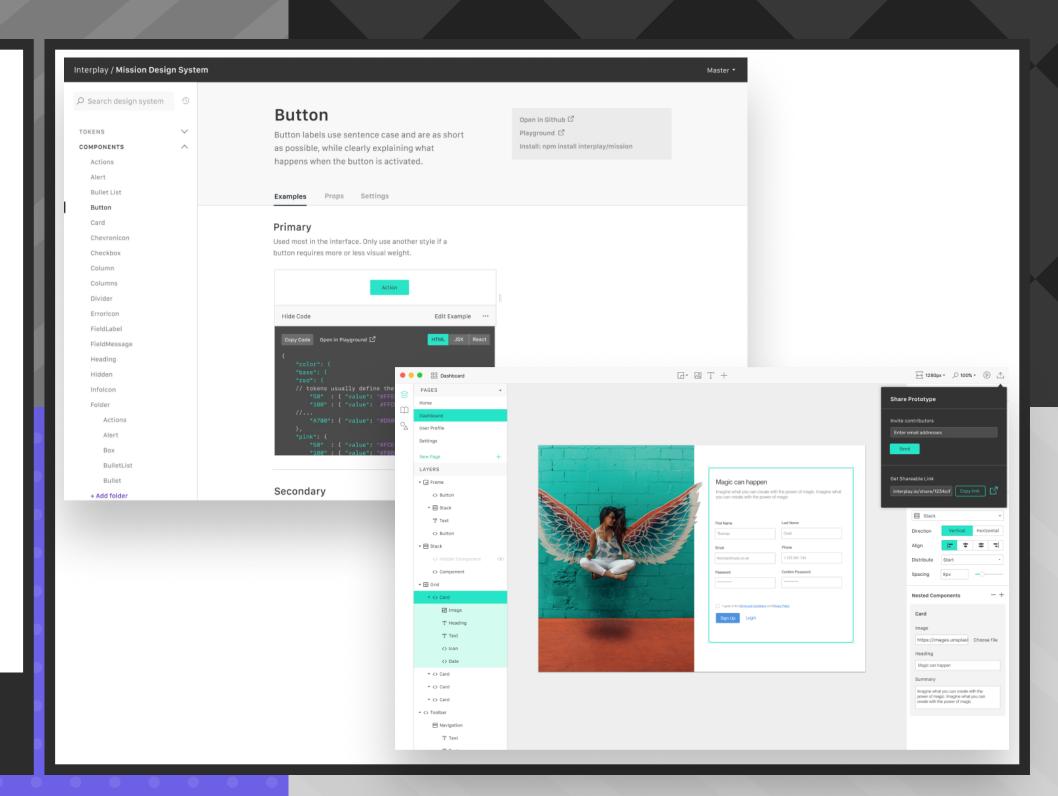


We need different tools for this new relationship

Interplay

Interplay.

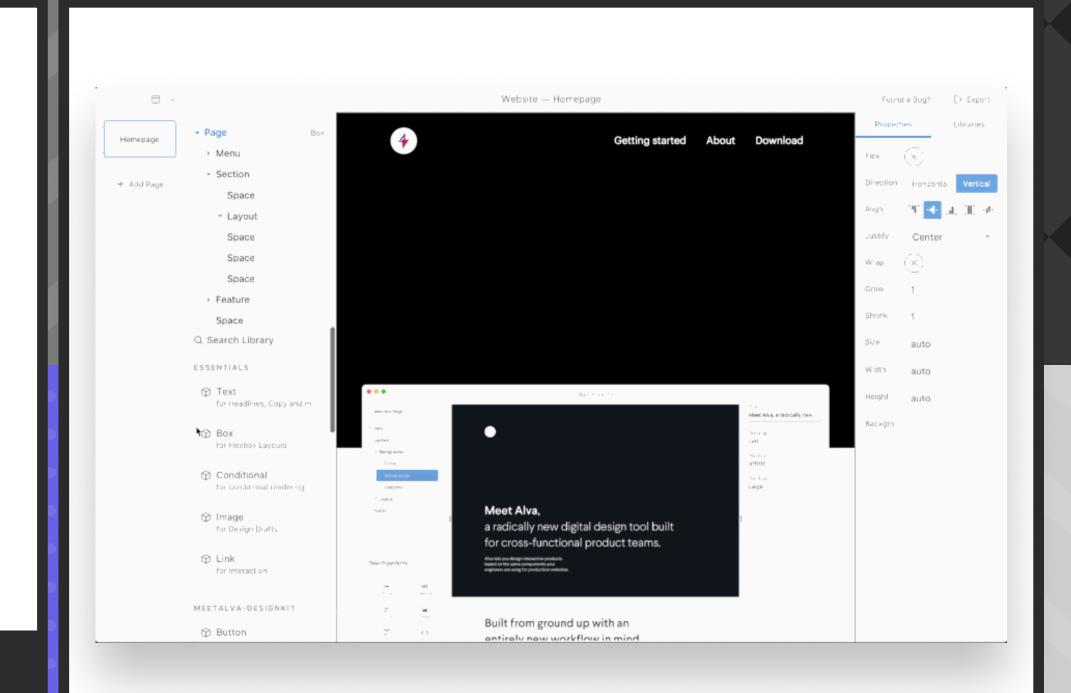
interplayapp.com







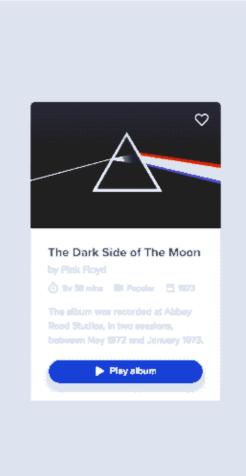
meetalva.io



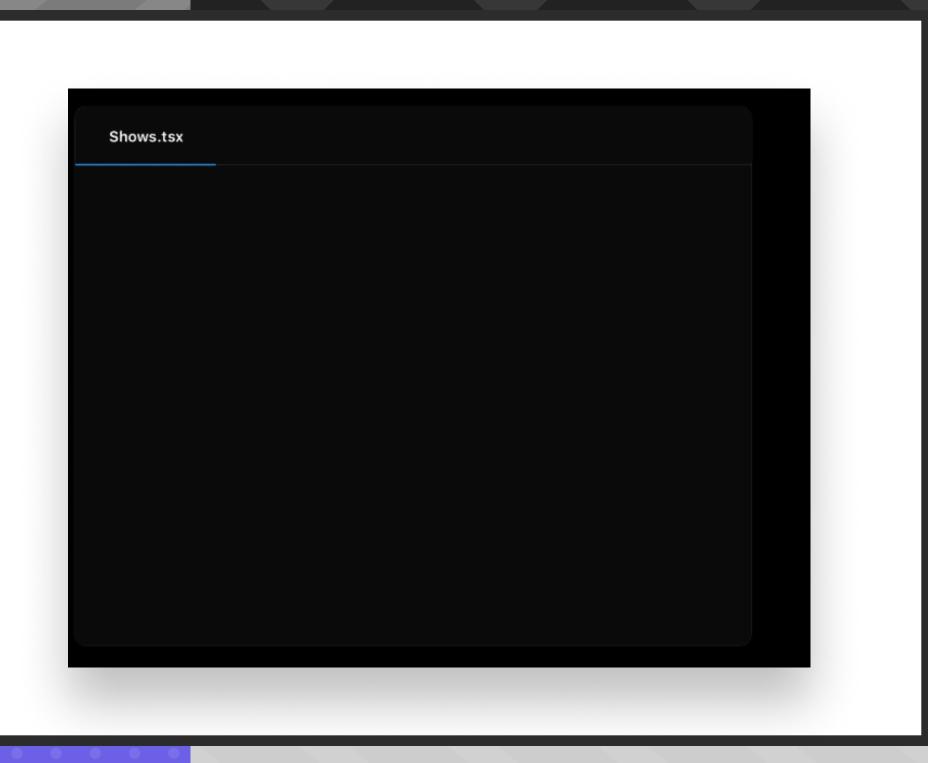
UXPin Merge



uxpin.com/merge







Builder X

bX

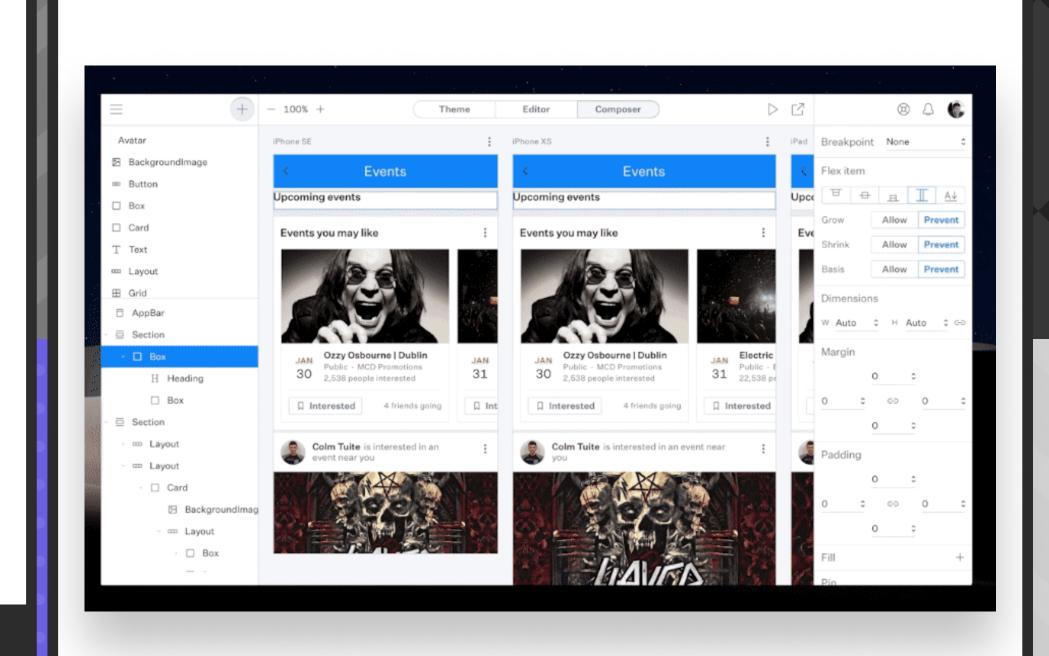
builderx.io



Modulz



modulz.app



The end...

Maximise your design system's impact by aligning everyone around a single source of truth

Merge

Design from coded components.

The real source of truth.

Document your design system, together.

Create beautiful living styleguides and document all your design system resources in one place

Design System is the language

Each Design System has its own language

What's the english of Design Systems?

A common format for Design Systems



And designers, we are halfway on 2019: can we please make some noise and ask @adobe, @sketch, @figmadesign, @InVisionApp, @framer, @goabstract and the rest of the pack to figure a way to make UNIVERSAL FILE FORMAT for Web Design files?

10:43 pm · 17 Jun 2019 · Twitter Web Client

4 Retweets 27 Likes



Replying to @eelco, @kaelig and 2 others

Now, what I think is feasible short term, is a "lowest common denominator" format that would allow best effort transfers between design tools. Facebook has their Semaphore format, but it is pretty much internal only. Others, like Abstract or Zeplin could play a role too.

12:06 am · 21 Jun 2019 · Tweetbot for iOS

2 Likes



Design System Utils

npm v1.5.0

minzipped size 1.17 kB

build passing

licence MIT

PRs welcome

Design System Utils is a micro framework that standardises your design-system tokens & provides helpful utility functions to access the information. It can be used with styled-components, emotion, glamorous or any other CSS-in-JS framework.

Design System Utils



System UI

About

System UI is an open source organization that houses a Theme Specification for creating interoperable UI components. It is also the home for the Theme UI and DesignQL libraries that are built upon the foundation of this specification. The intent behind this specification is to help make UI components, libraries, and tools as interoperable as possible.

System UI



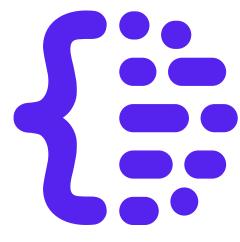
Style Dictionary

Style once, use everywhere.

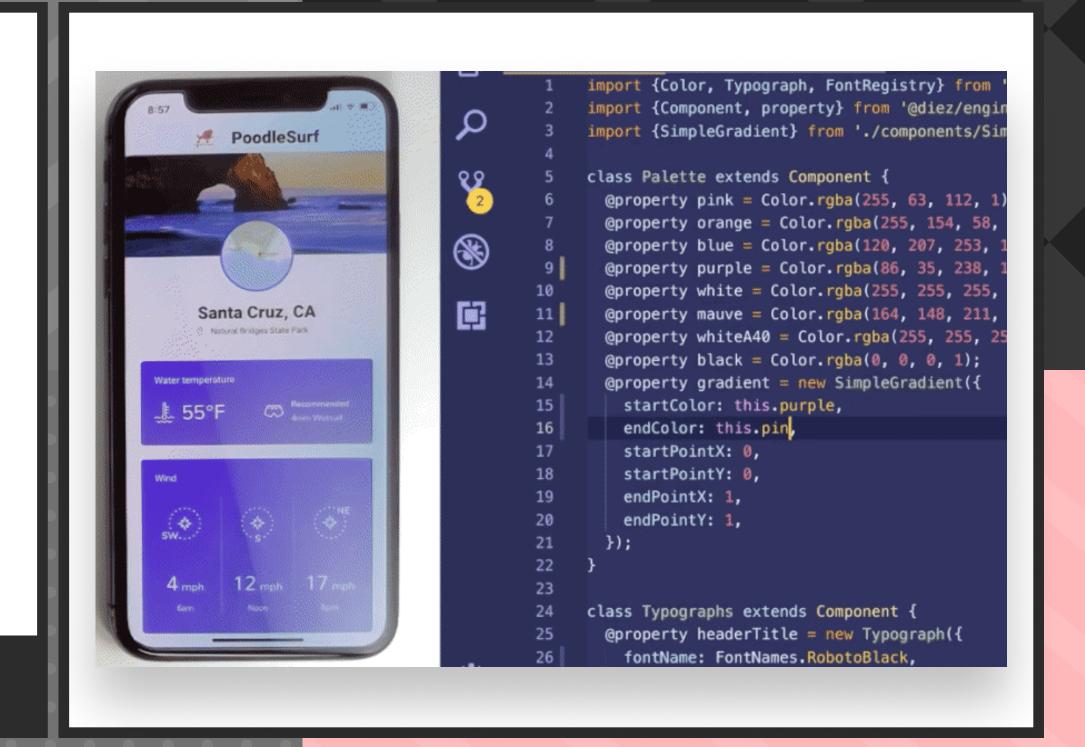
Style Dictionary is a build system that allows you to define styles once, in a way for any platform or language to consume. A single place to create and edit your styles, and a single command exports these rules to all the places you need them - iOS, Android, CSS, JS, HTML, sketch files, style documentation, or anything you can think of. It is available as a CLI through npm, but can also be used like any normal node module if you want to extend its functionality.

Style Dictionary

Diez



diez.org



Storybook CSF



storybook.js.org

Component Story Format

Simple, portable, future-proof component examples

Why a new format?

Imagine if developing a component in Storybook automatically unlocked the ability to test it with Jest, import it in Sketch designs, paste it into InVision prototypes, and visually test it in Chromatic. What if your component library was universally accessible inside all your favorite tools?

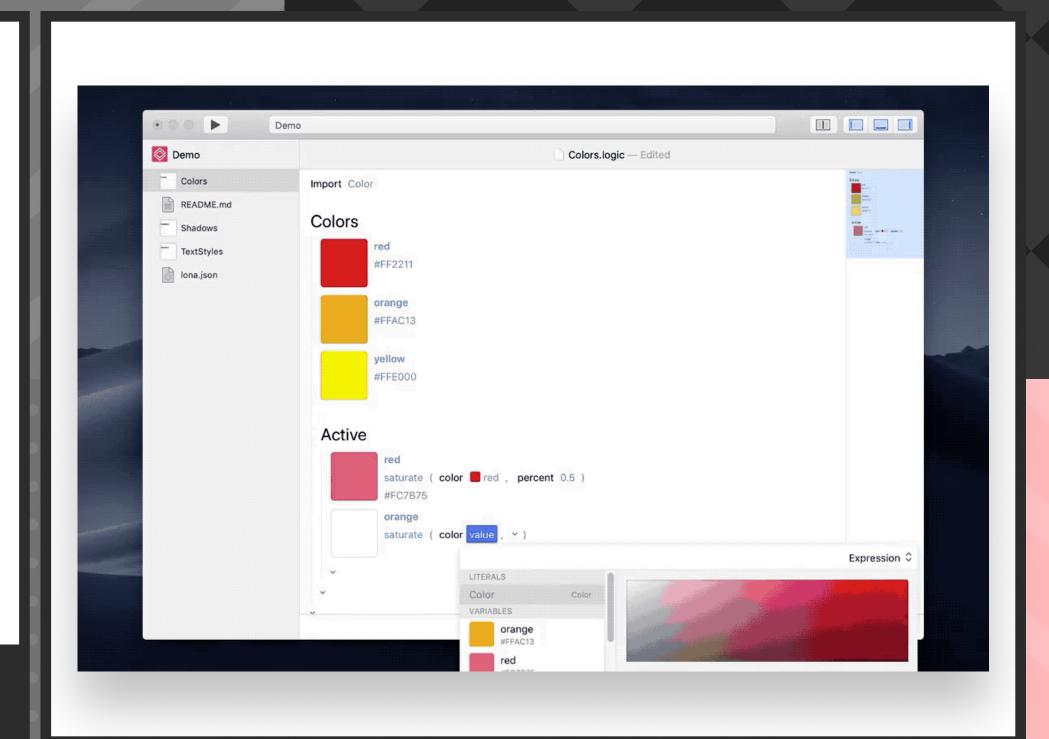
```
export default { title: 'atoms/Button' };

export const text = () => <Button>Hello</Button>;
export const emoji = () => <Button>@ @ do 100 </Button>;
```

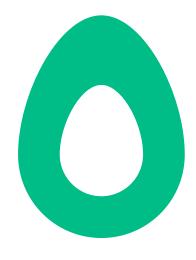




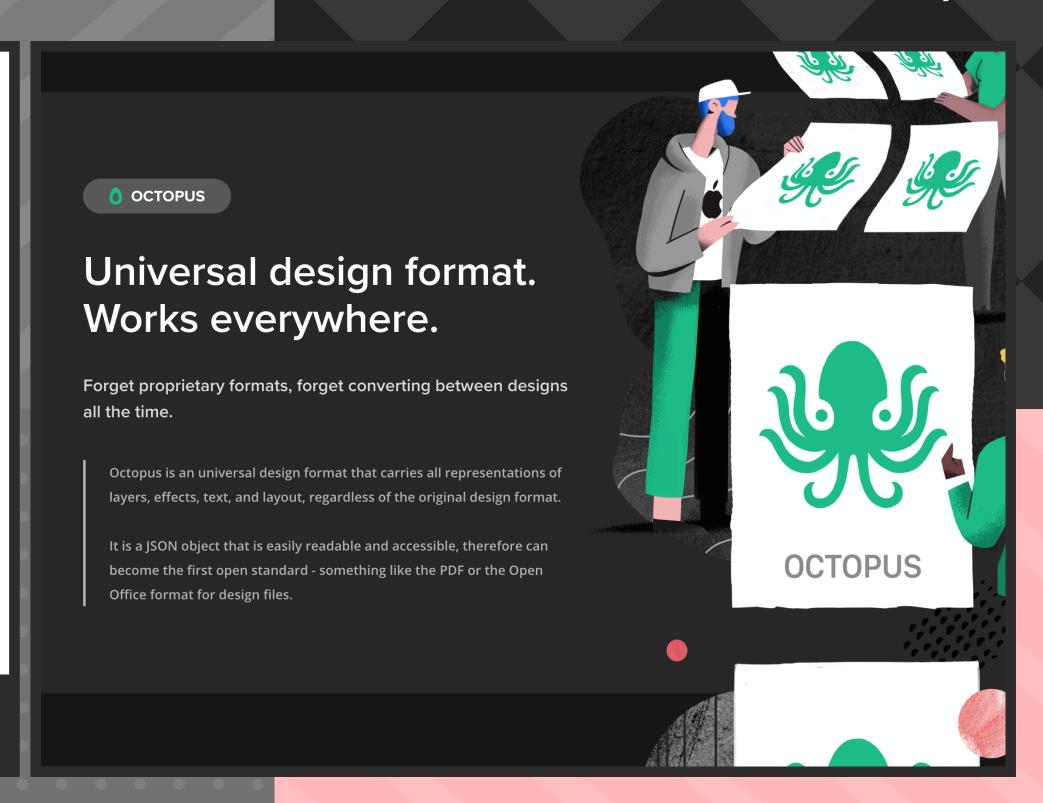
github.com/airbnb/Lona

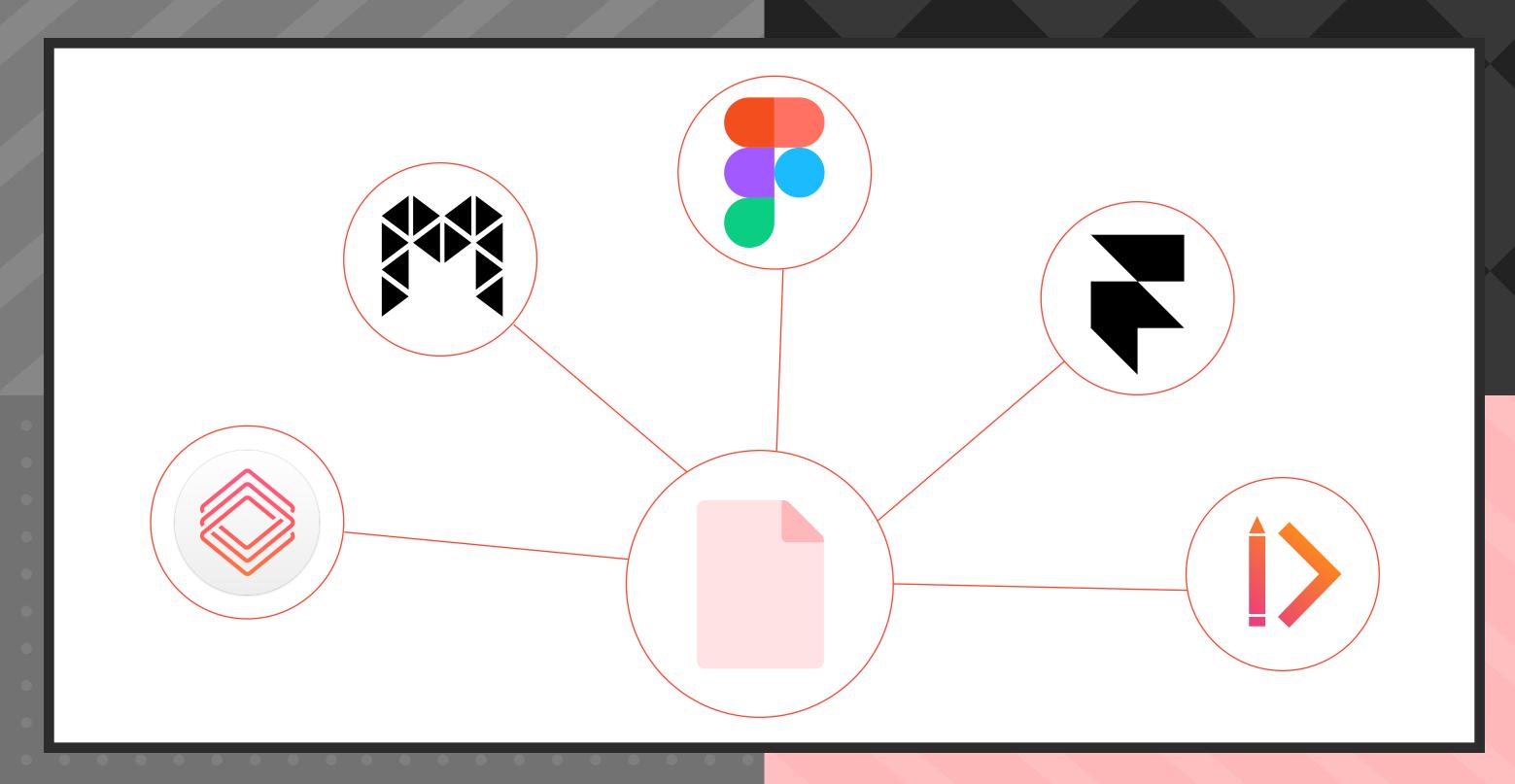


Avocode SDK



avocode.com/sdk





Design System becomes invisible to everyone

Main takeaways!

Use the documentation as a starting point

Add code to improve the design process

Think about the people using the Design System

Make the Design System open to everyone

Make Design open to everyone

Thank you!

brps.me/dsl19

@braposo