Secrets to a successful design system

React Day Berlin 2018

Monica Lent@monicalentLead Frontend Engineer at SumUp

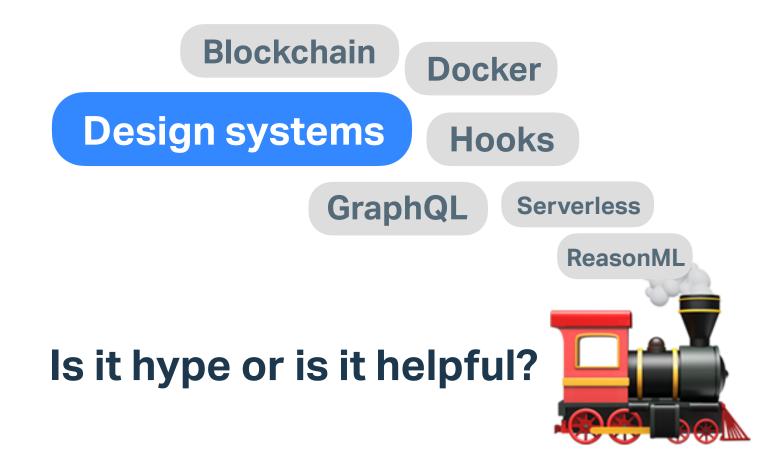








Secrets to a successful design system



Alignment

Efficiency

Cross-platform UI

Consistency

Scalability

Maintainability

Single source of truth

Design systems solve a real problem

Re-inventing the wheel

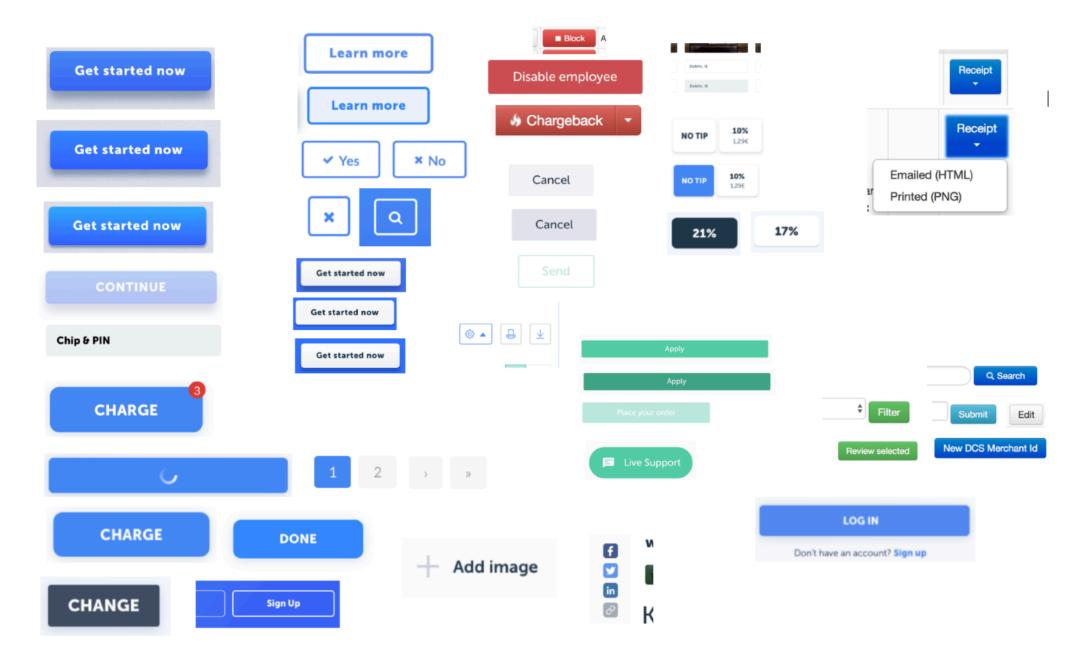
Change process

Accessibility

Clear standards

Governance

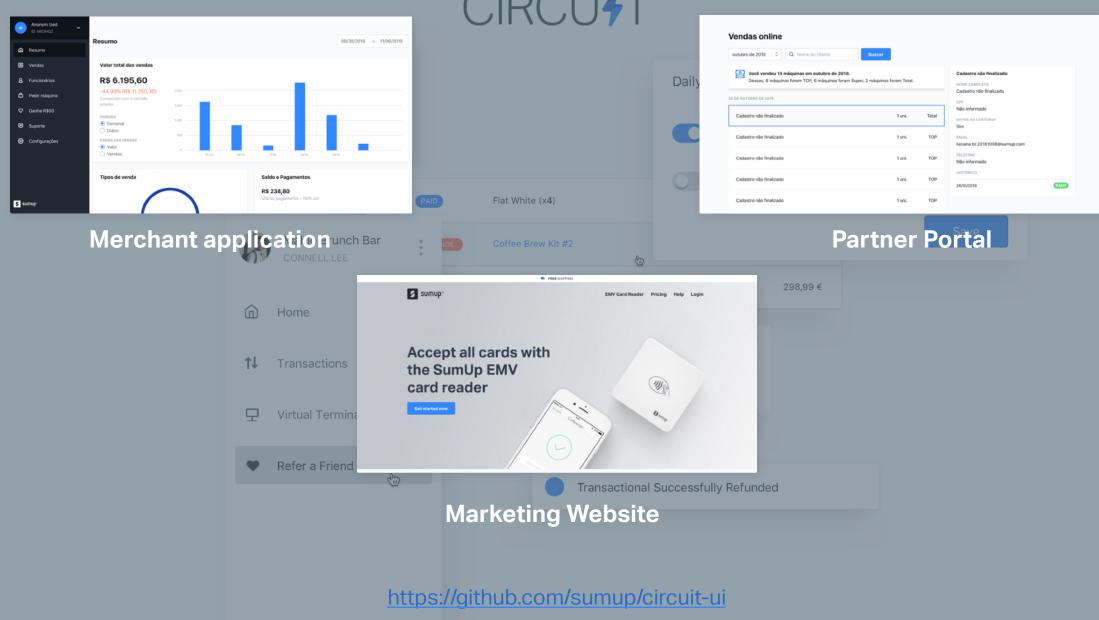
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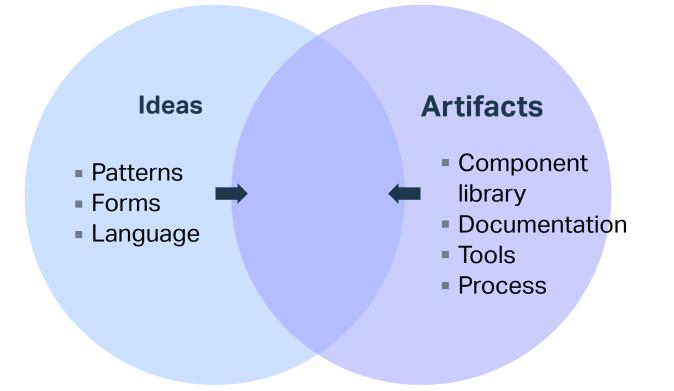


A design system is a collection of **reusable components**, guided by **clear standards**, that can be assembled together to build **any number of applications**.

- Will Fanguy, Invision

https://www.invisionapp.com/blog/guide-to-design-systems/

Elements of a design system



Elements of a design system

Design System

Design ideas & artifacts that can **evolve together** over time

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Secrets to a successful design system

Responsibility & ownership

Sheer time investment

What goes in it?

Component APIs

Change management

Design systemsCommunicationare hardDocumentation

Testing

Long-term maintenance

Releasing

Impact of regression

Production support

Deprecation

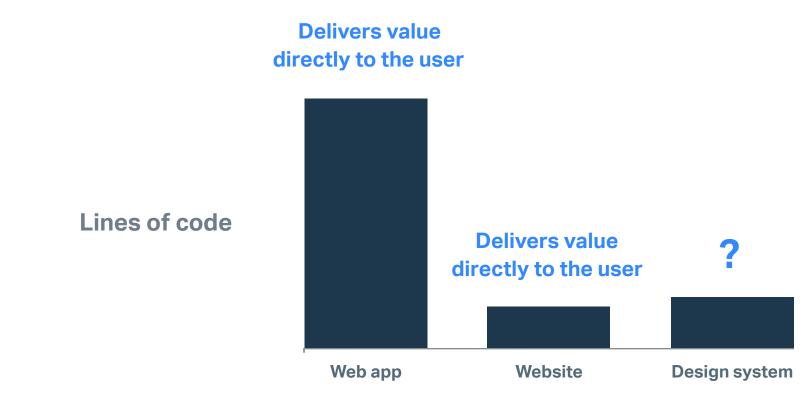
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Lifecycle of a design system





What's the value proposition of a design system?



What are our challenges? How can developers help?



Thinking like a CEO

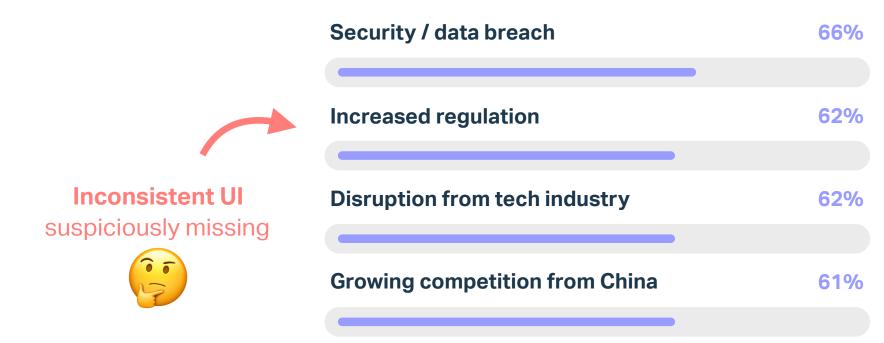
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https://stripe.com/files/reports/the-developer-coefficient.pdf





How threatening are the following factors to the success of your business?



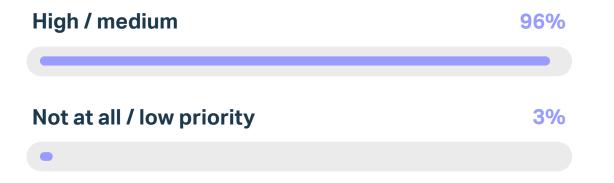


How much of an impact can developers have to help your company with each of the following challenges?

Bring products to market faster	71%
	-)
Increasing sales	70%
Differentiating products / services	69%
Internal reporting / visibility	65%



How much of a priority is it for upper management to increase the productivity of its developers?

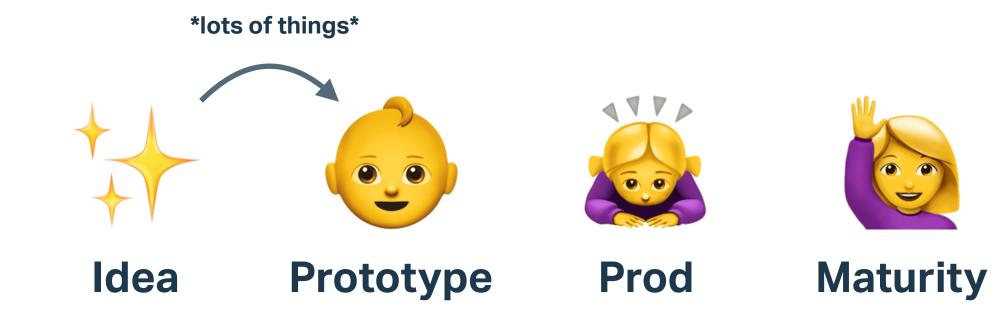


SECRET #1

Design systems are about productivity Consistency is a side effect

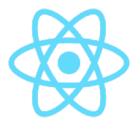
Let's imagine you have buy-in





Picking your tech stack

Look at what you already have





React JS Javascript view library

Next JS React server-side rendering framework



Elm Compiles to Javascript

jekyU

Jekyll Static-site generator





Riot JS React-like microframework **Ruby on Rails** Traditional web app



Marketing cloud Emails & landing pages



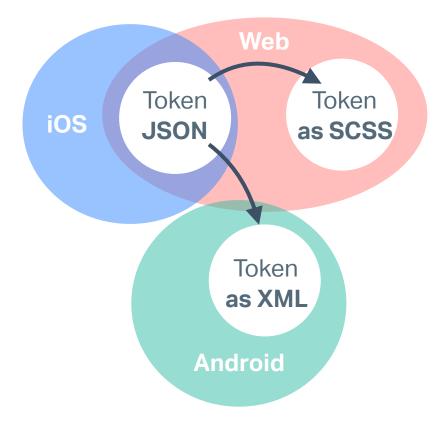
The world is bigger than React You have to plan for it



Design tokens

Platform-agnostic data that store visual data attributes



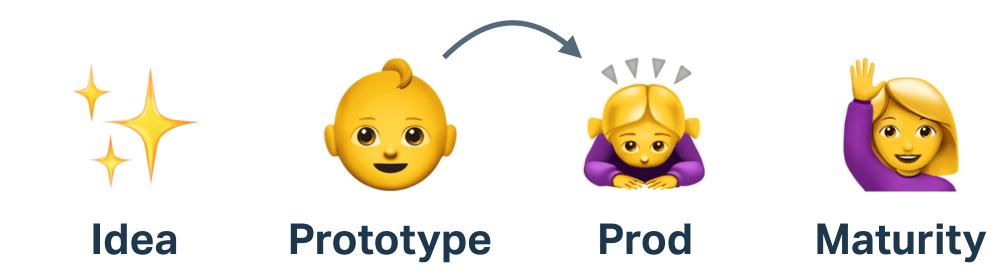


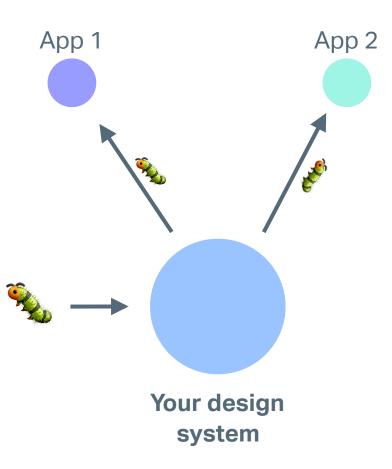
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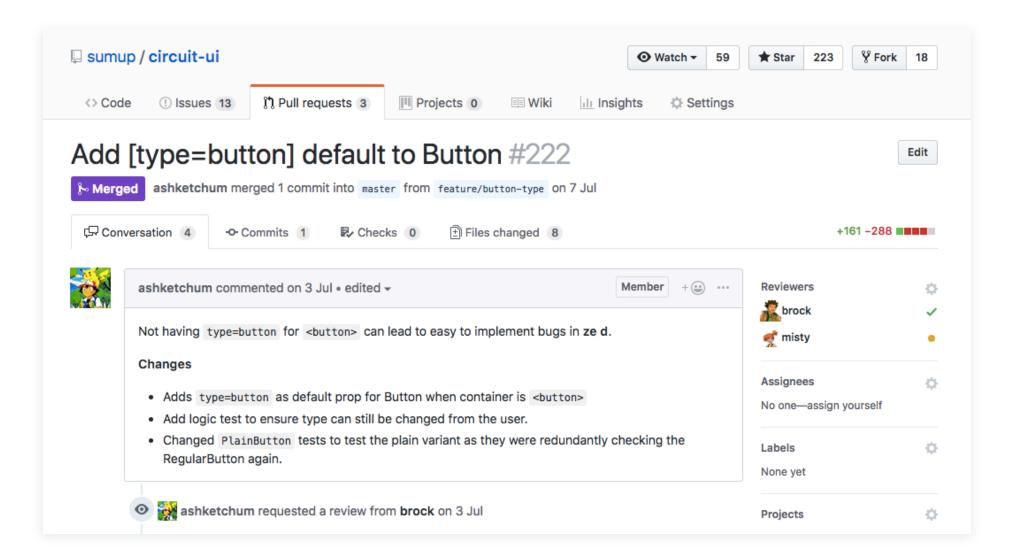
Static CSS library

Compatibility layer between "React Utopia" and the rest of the world









What happened?



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A design system is a dependency Even if you control it



Change management in design systems







Deprecate gradually and communicate in code and docs Define and test (ideally automate) **the critical path** in your apps

Use canary builds to release in a shared env before production

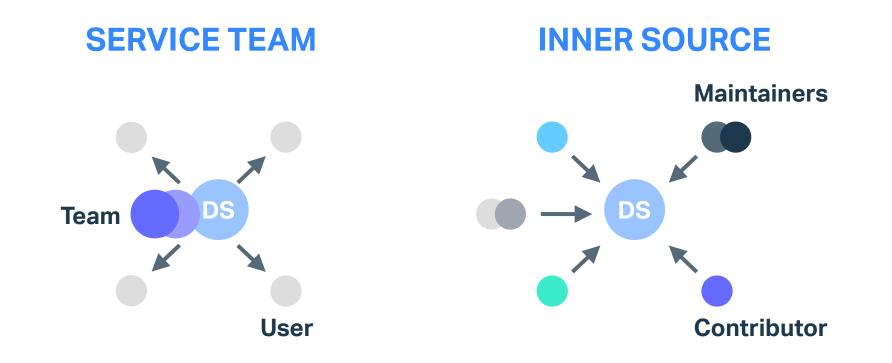


There be bugs in that code

📮 sumup / circuit-ui	OwnerWatch →58★ Star	241 ¥ Fork 21
<> Code ① Issues 10 ⑦ Pull requests 3	III Projects 🚺 🗐 Wiki 💷 Insights 🔅 Settings	
Filters - Q is:issue is:open	Labels Milestones	New issue
□ ① 10 Open ✓ 55 Closed	Author - Labels - Projects - Milestones - As	ssignee - Sort -
Drop down menu with phone number's #289 opened on 31 Aug by vpenkoff	country code and country flag	
 Inconsistent Button size bug #277 opened on 13 Aug by herberthenrige 	\sim	
 Image: [Modal] Background content is scrollaby help wanted #211 opened on 25 Jun by connor-baer 	le when modal is opt n bug g od first issue hacktoberfest	Ç 1
Use new card icon components in Card	NumberInput enhancement good first issue hacktoberfest	
	<pre>import './/shared';</pre>	
Tag Visual Tweak: Rer hacktoberfest help wanted #156 opened on 7 May by melmdesign	TODO design provided these weird num	bers, but maybe we can clean them up?
 [Card] additional margin right on mobile #141 opened on 17 Apr by ugobriasco 	• view	口 1
O Roadmap to v1 help wanted in progress		□ 2

The **real cost** of software is not the initial development, but **maintenance over time**

Team models for design systems





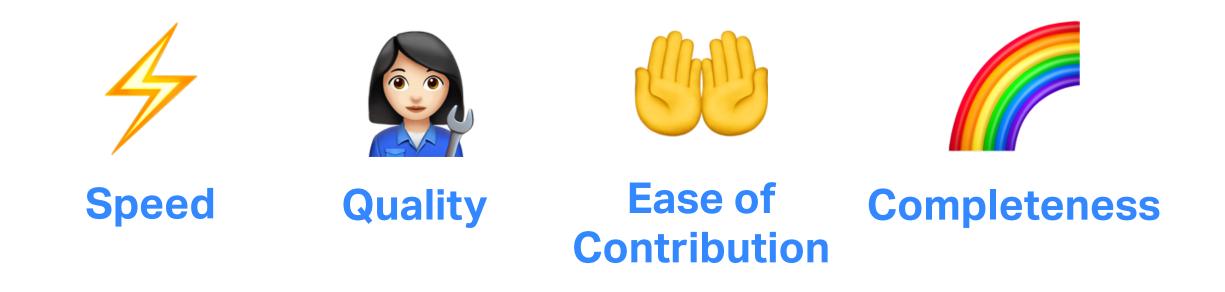
Collaboration is key to long-term quality Organize in a way that scales

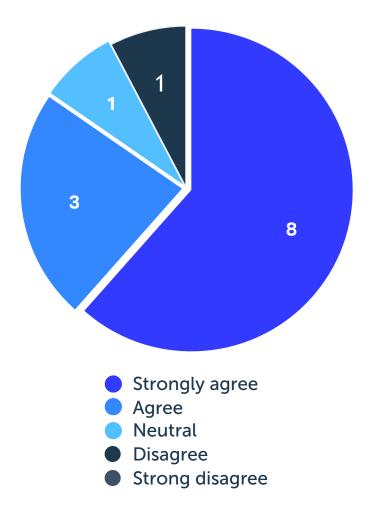






Pick your KPIs

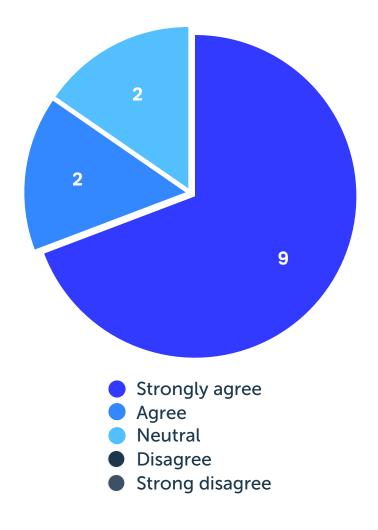




MEASURING QUALITY



"Circuit makes it easier for me to implement or design a high-quality user interface"



MEASURING **SPEED**



"Circuit helps me implement or design features more quickly"

SECRET #5

Design systems are about people Their success is the system's success

Progress over perfection

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