BUILDINGSCALABLE

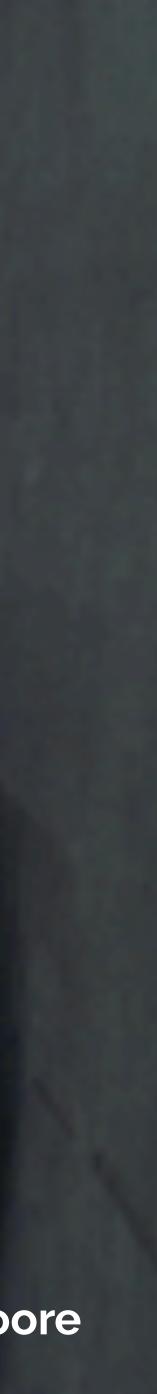
Laura Van Doore alauravandoore

Design Systems



Designing & building software is complex.





Why is design struggling to scale?

- Growing design teams Organisations are investing more in design
- Infinitely more complex design problems & desires of our users.
- Distributed teams Agile delivery models encouraging cross functional teams.

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Software needs to become more sophisticated to keep up with the demands

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Maintaining design debt is starting to feel like this:



"A fractured process makes for a fractured user experience."

- NATE FORTIN



So how can we **design the process** in order to deliver **better products & user experience**?





Answer:

A DESIGN SYSTEM



Design System (noun) [de-zine sis-tuhm]

A collection of reusable components, governed by clear standards, that can be assembled together to build any number of applications or products.

alauravandoore



Design System

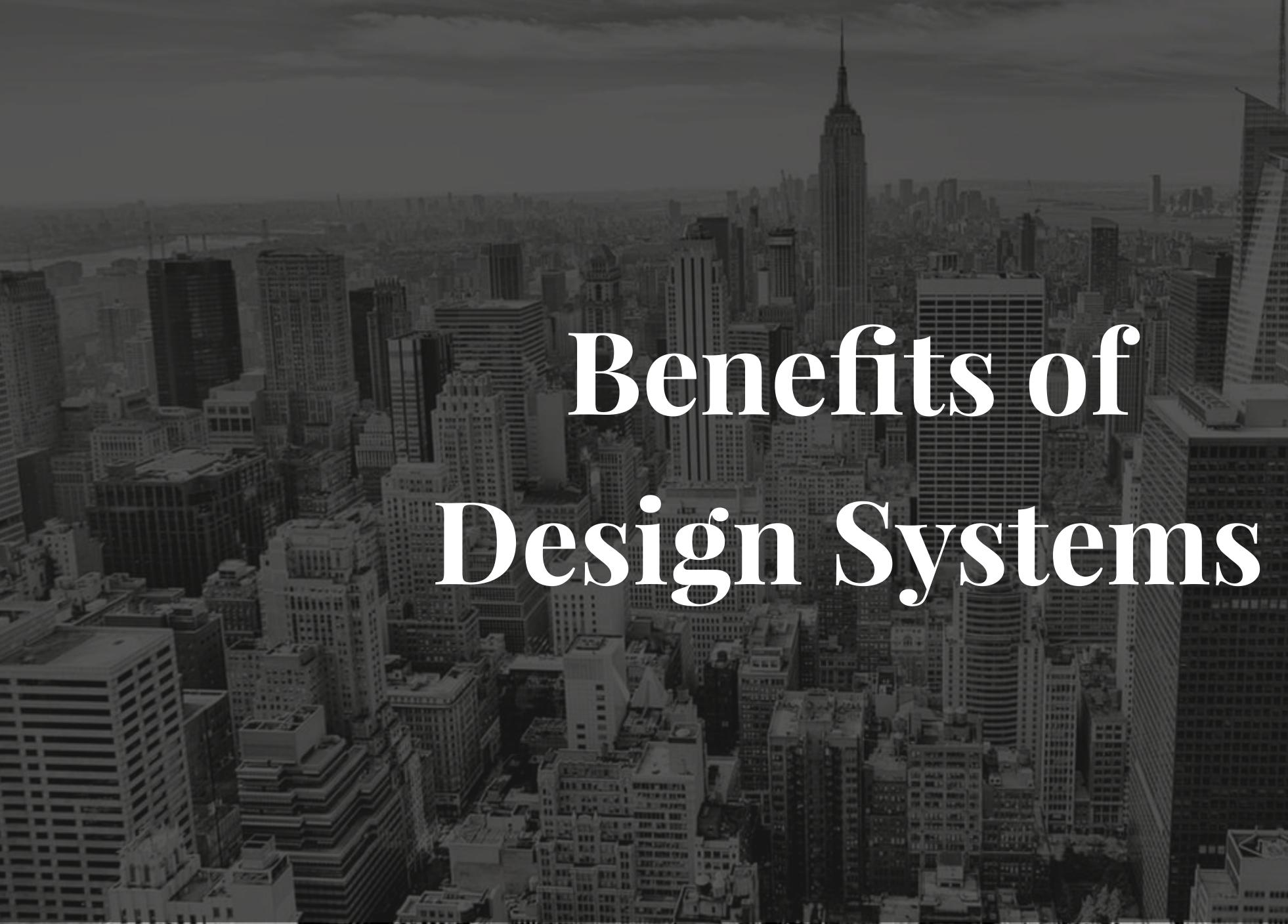
Design Principles Live Code & Implementation info UX & Accessibility Metrics Animation Timing & Easing Voice & tone Guidelines Style Guide & Design Resources UX Personas

Style Guide

Typography
Colour Palettes
Component Styling
Grids
Static Code Samples







Benefits of

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Consistency Consistency and clarity in the user interface Communication Speaking the same language Efficiency Increased ability to roll out new features and software products



Maintainability Both in code base, testing and design assets

Scalability A solid architecture you can expand into new products

Baked in Accessibility

engineers

Facilitates speedy onboarding for new designers and



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According to InVision

of Product Design teams have a Design System





A quick look at the best design systems being used around the world.

BESTINCLASS

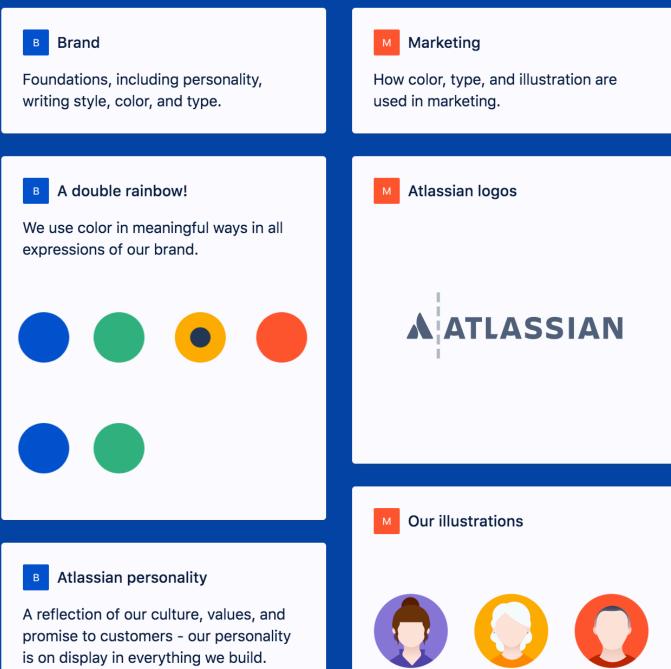
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Atlassian Design

Design, develop, and deliver

Use Atlassian's end-to-end design language to create straightforward and beautiful experiences.



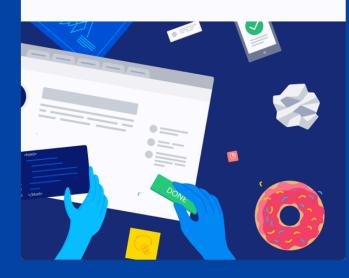
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P Product

Foundations, components, and patterns for building applications.

Why prototyping is a must



A Atlaskit

The tools to build experiences in the Atlassian Design style.



Atlassian Design

Marketing

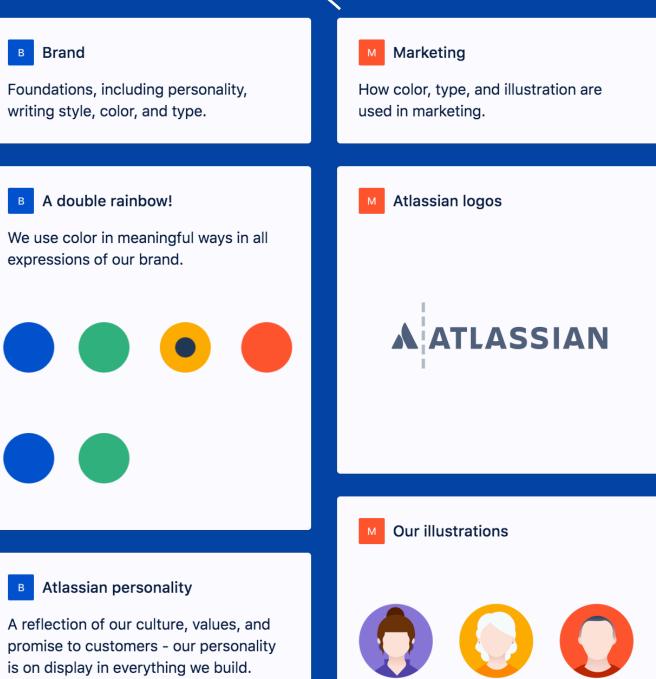
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Design, develop, and deliver

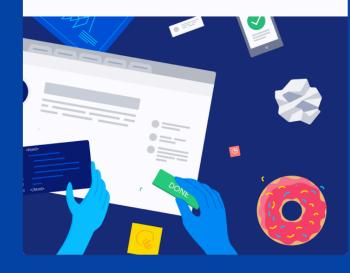
Use Atlassian's end-to-end design language to create straightforward and beautiful experiences.



P Product

Foundations, components, and patterns for building applications.

Why prototyping is a must



A Atlaskit

The tools to build experiences in the Atlassian Design style.

Product



Atlassian Design



Product

Overview

What's new?

FOUNDATIONS

Accessibility

Color

Grid

Iconography

Typography

Writing style

COMPONENTS

Avatars

Badges

Banners

Breadcrumbs

Buttons

Checkboxes

Date/time picker

Drop-down menu

Flag messages

Inline dialog

Inline message

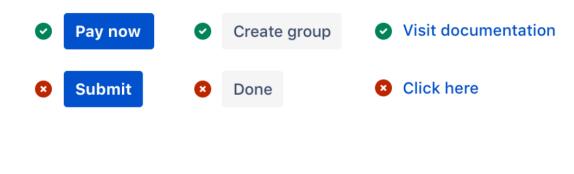
Logos in product

Lozenges

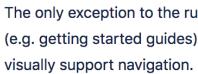
Buttons

icon while links are always text.

Writing labels



Button order



Sector Secto

Use buttons to trigger actions and links. Buttons can contain a combination of a clear label and an

Edit Profile

1. **Icon**: Use an icon to convey more meaning.

2. Label: Text that indicates the result of selecting the button.

Button labels are sentence case and are as short as possible, while clearly explaining what happens when the button is activated.

Buttons are sorted by importance from left to right.



The only exception to the rule is when buttons are used to move through a sequence of screens (e.g. getting started guides). In those cases, the "Back" default button would be on the left to



Polaris

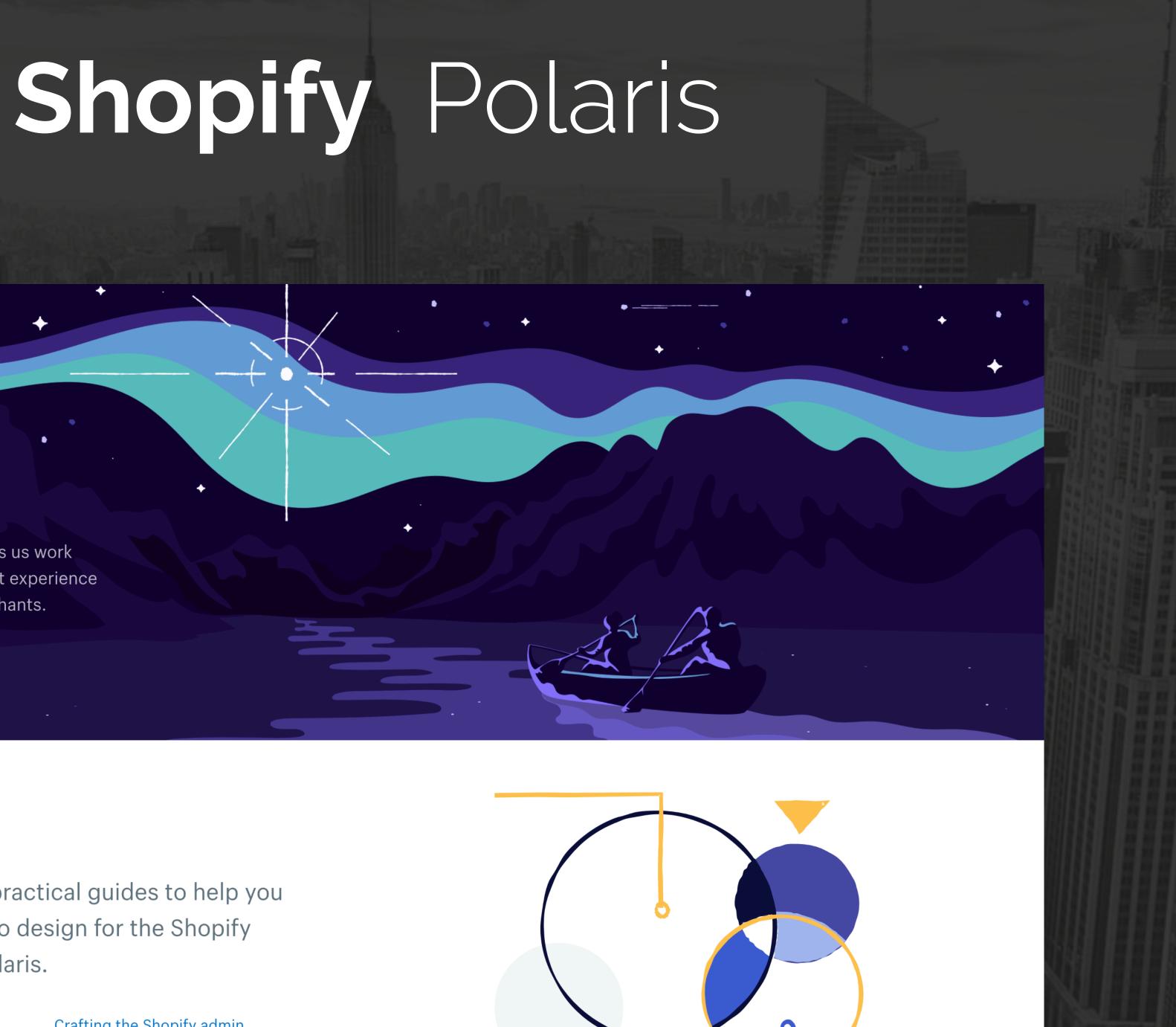
Our design system helps us work together to build a great experience for all of Shopify's merchants.

Guides

Check out these practical guides to help you understand how to design for the Shopify platform using Polaris.

Guiding principles

Crafting the Shopify admir





LIGHTNING DESIGN SYSTEM

Current release: Summer '18 (SLDS 2.6.1) | Archives

Guidelines

Accessibility

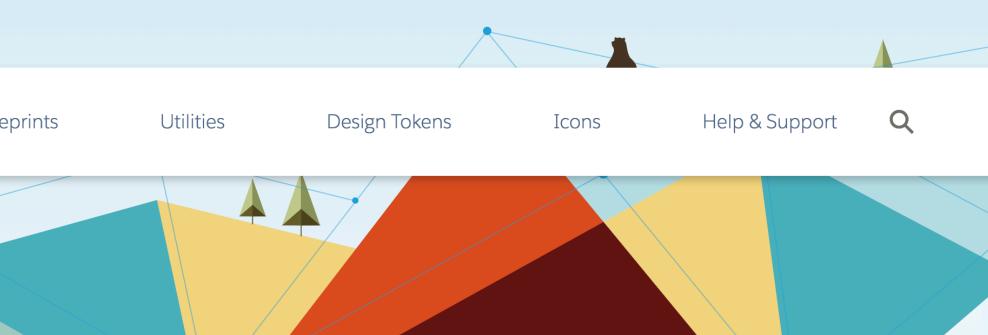
Component Blueprints

Salesforce Lightning Design



Create the world's best enterprise app experiences.

GET STARTED







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Carbon Design System	
Q Search	
Getting Started 👻	
What's New	
Guidelines -	
Style -	
Components -	
Data Visualization 👻	
Utilities -	
Component Status	
Resources	
Design Kit 🔶	
Vanilla Repo 🔶	

React Repo

 \rightarrow



Getting Started

Onboarding for designers and developers who are using Carbon for the first time



Components

A library of all Carbon components, comprised of code, usage and style guidelines.

BM Carbon

CARBON DESIGN SYSTEM

Explore the system



Style

Guidance on usage and application for basic design elements.



Resources

A helpful list of tools, links and downloads that will improve a Carbon user's workflow.



M

Designing for social transformation

The Swarm Design System is a living ecosystem to help our teams craft online experiences to bring people together offline

Get started



Design

Guidelines for product design at Meetup. Includes our design team's processes and principles as well as visual design details





Brand

Information about the Meetup brand including our mission, voice and tone, and brand assets.

Learn more

Meetup Swarm

Design Content Brand Components

Content

Guidelines on the tone of voice to personify the brand and personality of Meetup, while keeping the product easy to navigate and understand.

Review guidelines

Web Components

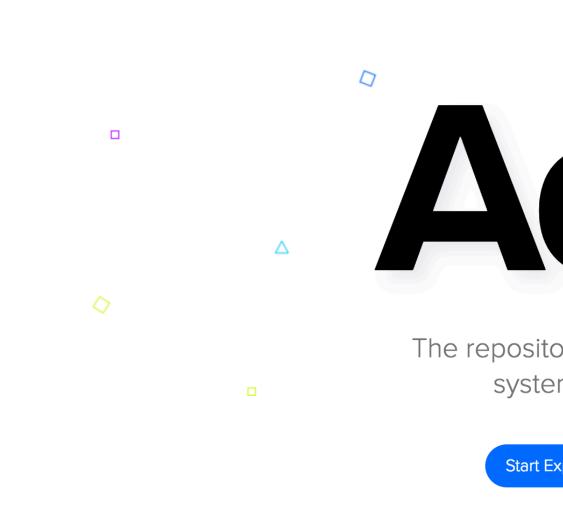
A set of UI components ready for use by designers and engineers to quickly ship new products and features.

Get components



Adele Design System Repository



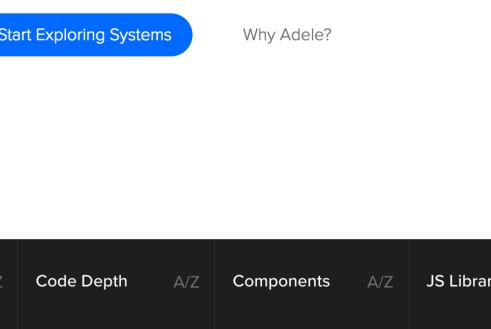


Company A/Z	System A/Z	Repository A/Z	Code Depth A/Z	Components A/Z	JS Library/Framework A/Z	Typescript A/Z	Web Compon
Type to filter	Type to filter	Type to filter	Type to filter	All ~	Type to filter	All	All





The repository of publicly available design systems and pattern libraries



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Filter categories: Type to filter...

See More: 🔇 🔪



AQUICK PREVIEW Design Systems at Fathom





FATHOM Principles Foundations Colour Palette Typography Grid Components

Development

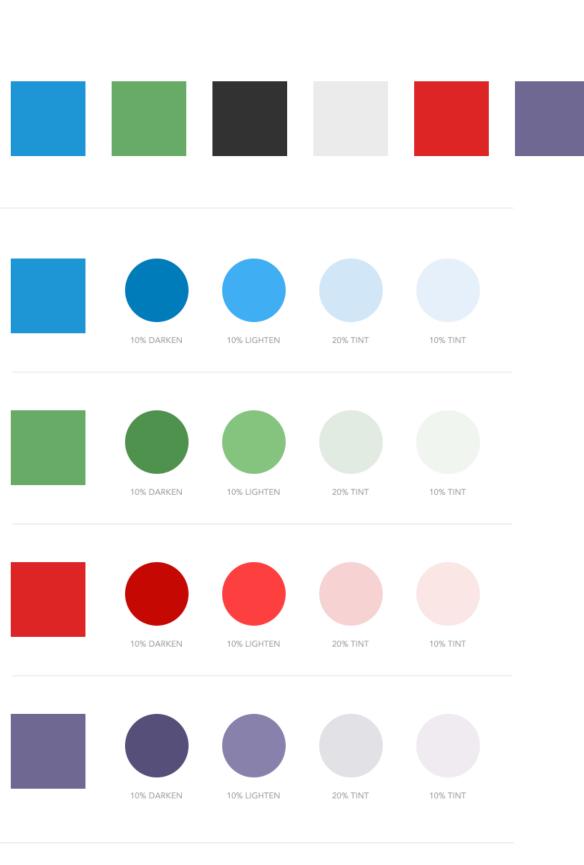
Foundations

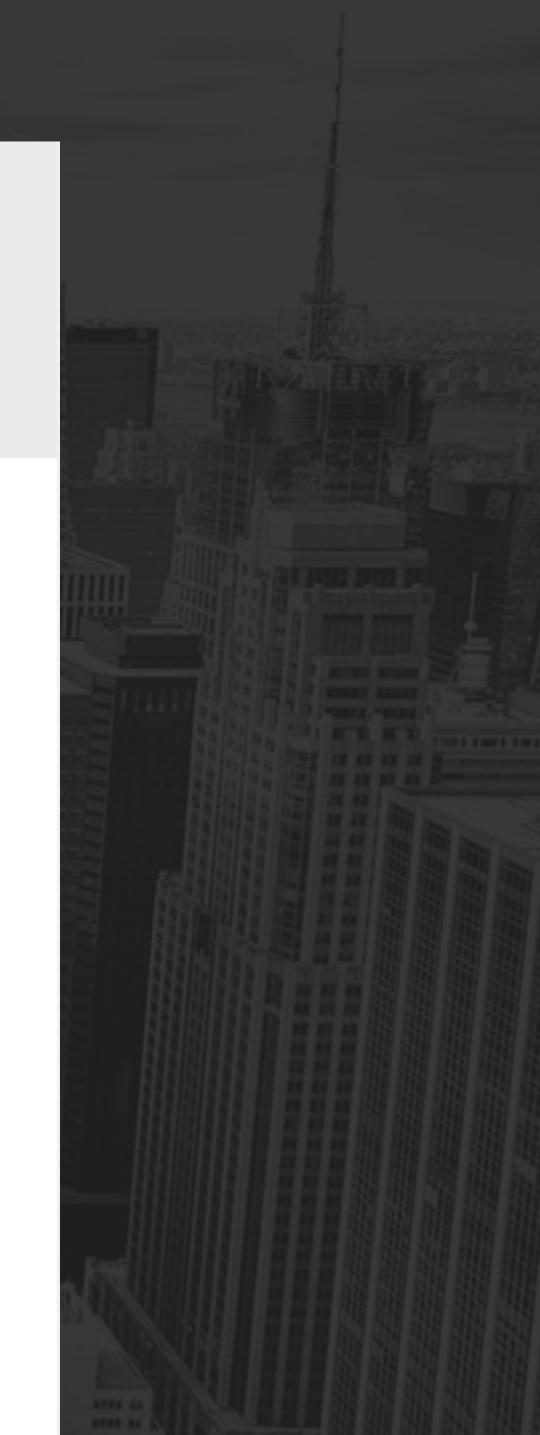
The core baselines of the Fathom style system. Here you'll find everything you need to configure the foundation of the Fathom Design System across the application.

Colour Palette

CORE PALETTE

COLOUR VARIANTS





FATHOM

Principles

Foundations

Colour Palette

Typography

Grid

Components

Development

Foundations

The core baselines of the Fathom style system. Here you'll find every configure the foundation of the Fathom Design System across the ap

Typography

Line Height - 24px

HEADING 1 .JUMBO Avenir Heavy • 46px H1.jumbo	Monthly Performance Report				
HEADING 1 Avenir Medium • 38px #000000	Revenue Analysis & Profitability				
HEADING 2 Avenir Medium • 28px #000000	Overview and Actions				
HEADING 3 Avenir Medium • 20px #8D8D8D	Last 6 months vs budget				
HEADING 3 .LIGHT Avenir Light • 20px #8D8D8D	Profitability & other insights				
HEADING 3 .UPPER Avenir Heavy • 14px #8D8D8D	TITLE STYLE FOR KEY NUMBERS				
BODY COPY Avenir Next Regular • 17px Line Height - 24px	Add comments, observations, recommendations or any other text to tell a story or call out important information. Add comments, observations, recommendations or any other text to tell a story or call out important information.				



KEY NUMBERS .LARGE Avenir Medium • 40px

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KEY NUMBERS .MEDIUM Avenir Medium • 30px

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#333333

KEY NUMBERS .SMALL Avenir Medium • 25px

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er text to tell a story or any other text to tell a story or call out important information.



FATHOM

Principles

Foundations

Colour Palette

Typography

Grid

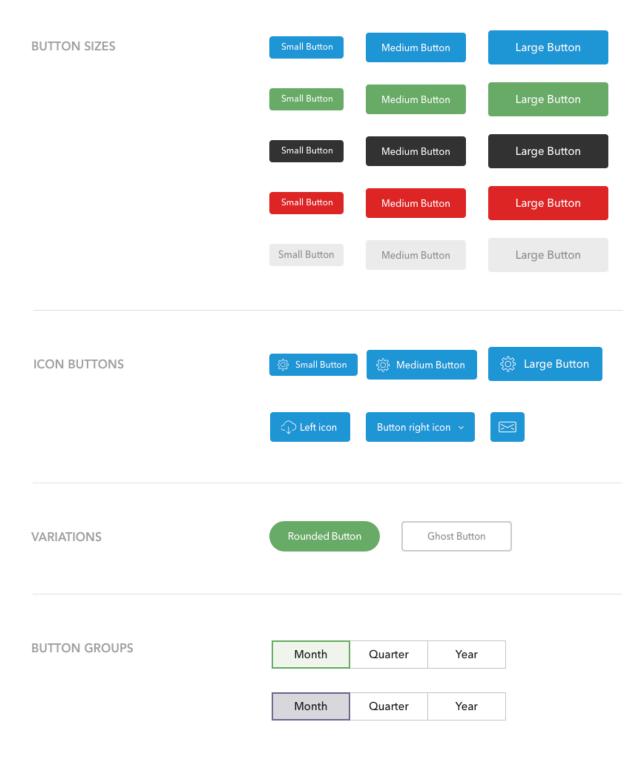
Components

Development

Components

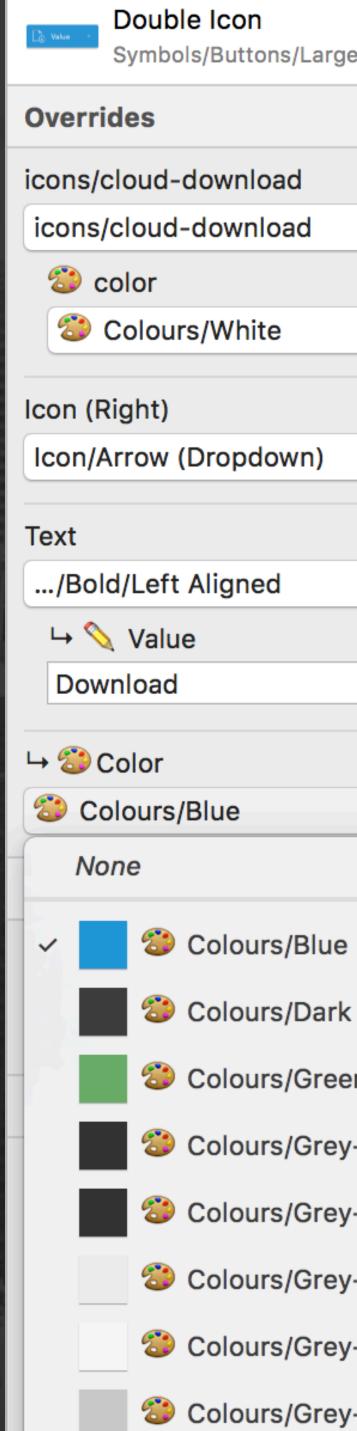
The core baselines of the Fathom style system. Here you'll find everything you need to configure the foundation of the Fathom Design System across the application.

Buttons



Inputs & Forms

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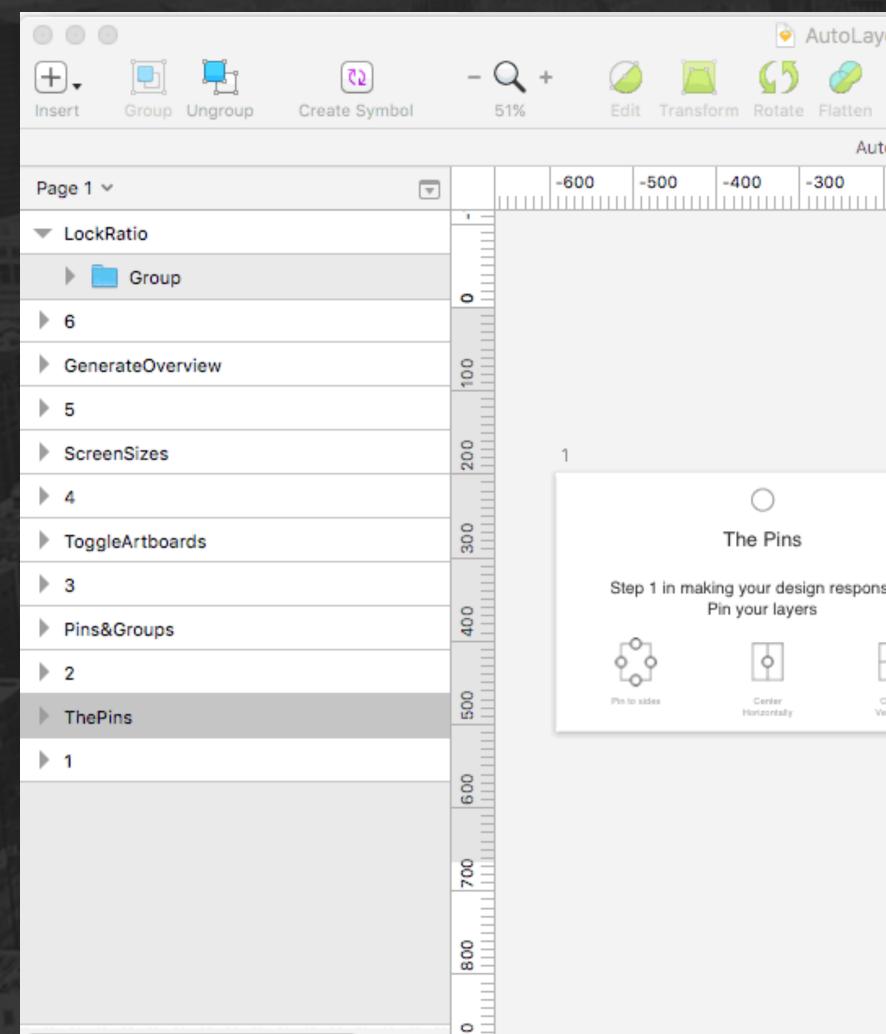
PLUGINS & WORKFLOWS Sketch Essentials



@lauravandoore



Auto Layout Responsive Design in Sketch



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Mask Scale Union Subtract Intersect Difference Forward Backward	Mirror Cloud View Export
utoLayout-Tutorial.sketch	+
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Sketch Icons Use your icon font seamlessly in Sketch

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	dot-circle.svg												
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	envelope-open.svg												
	📲 eye-slash.svg												



Style Libraries Push & Pull layer styles from your Design System



Sketch Style Libraries

A lightweight plugin that lets you sync layer & text styles with a Sketch Library, so your project is always in sync.

- A Keep your whole design system in your library, and not just the symbols
- No export/import via separate "style files" or another cloud service
- Also merges duplicate styles, and deletes the ones you don't want anymore

Usage

- 1. Install plugin
- 2. Plugins -> 🔗 Sync styles with library -> Fetch from... or Push to...
- 3. Pick a library
- 4. Profit

Installing

Works with Sketch Runner R



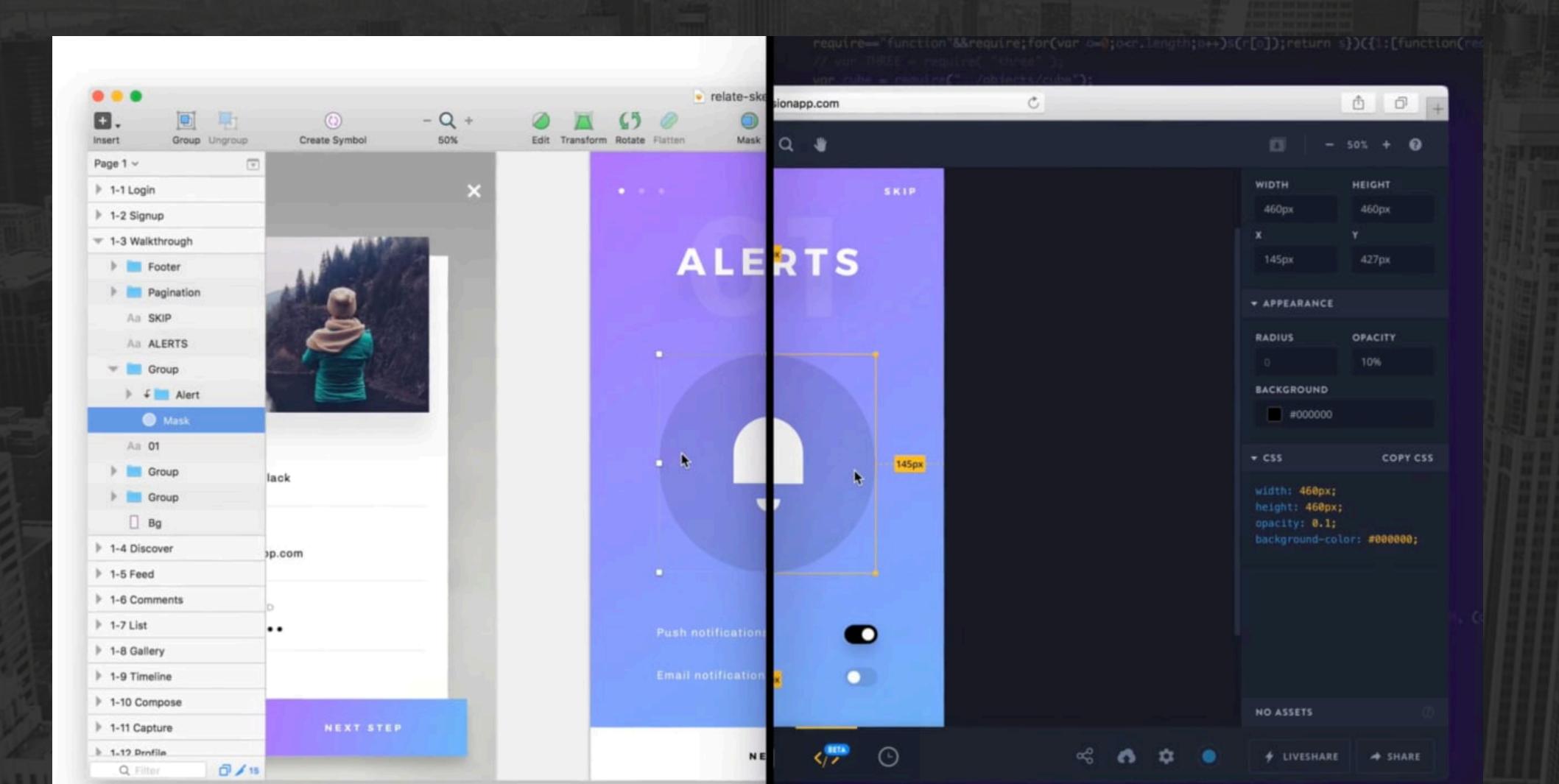
Toybox Roller Find & fix design inconsistencies in Sketch

OVERVIEW	V	STATS						
All Categories								
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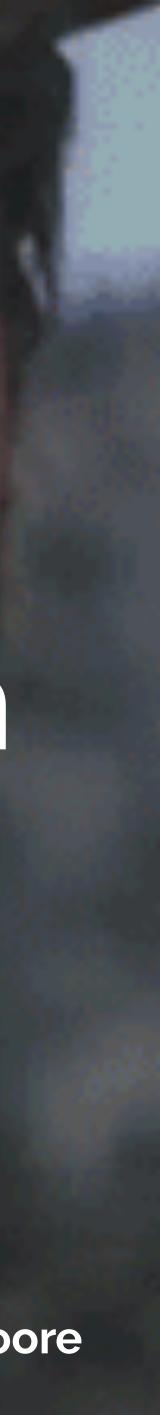
InVision Inspect For getting your Design System from Sketch to code





Sketch Library **#** Design System





A Sketch Library is just one small part of a successful Design System.



Design Systems are a team sport

@lauravandoore



The best Design Systems are a **shared asset** between design & development.



Getting started





Building a Design System is a marathon, not a sprint.



EXPECTATION vs REALTY



Don't think of it like a project.



Approach it like a product.

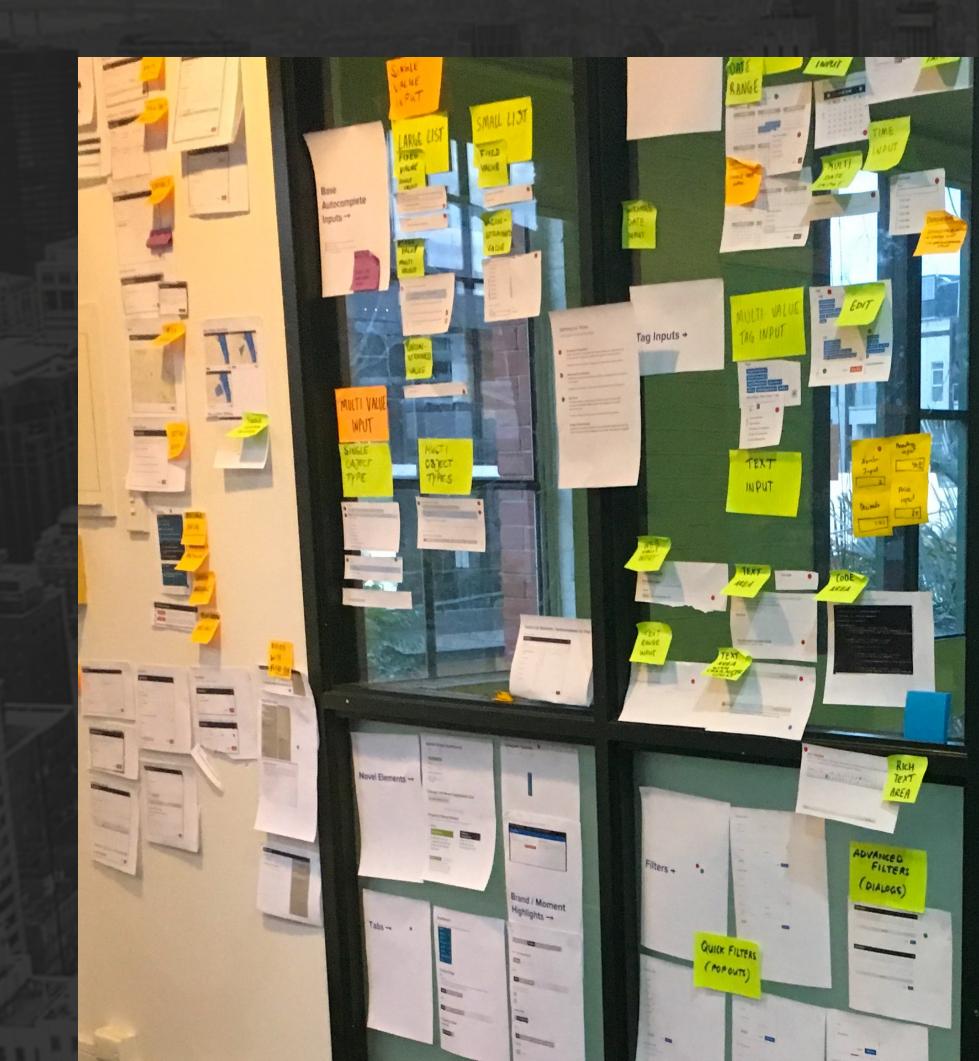
With a roadmap, objectives & many different groups of users.



Inventory Take stock of where you are.



It might look something like this ...







Find patterns & create order out of the chaos ...





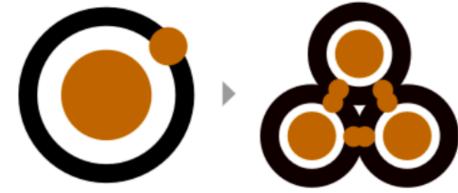
Structure Define a structure for your Design System

2

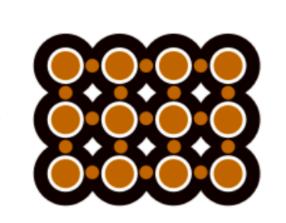


Define a new structure

Atoms & Molocules?







atoms

molecules

organisms







templates











Standardise

Also known as "Getting to one"

3







Chip Away







#1 Chip Away

The design system is something that is only worked on in spare time, or when designers/engineers are between projects.



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Hibernation







#2) Hibernation

Getting a core team of designers & engineers working on the Design System full-time. Possibly with the best implementation.



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allows the time for designers/engineers to come up

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#3 Piggyback







#2) Piggyback

as a part of another project. Balances out the cost better, as you see the returns immediately.



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Plan to get the bulk of the Design System implemented

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Rollout strategies

Chip Away

Hibernation

Piggyback



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EXTENDING & MAINTAINING

Design Systems



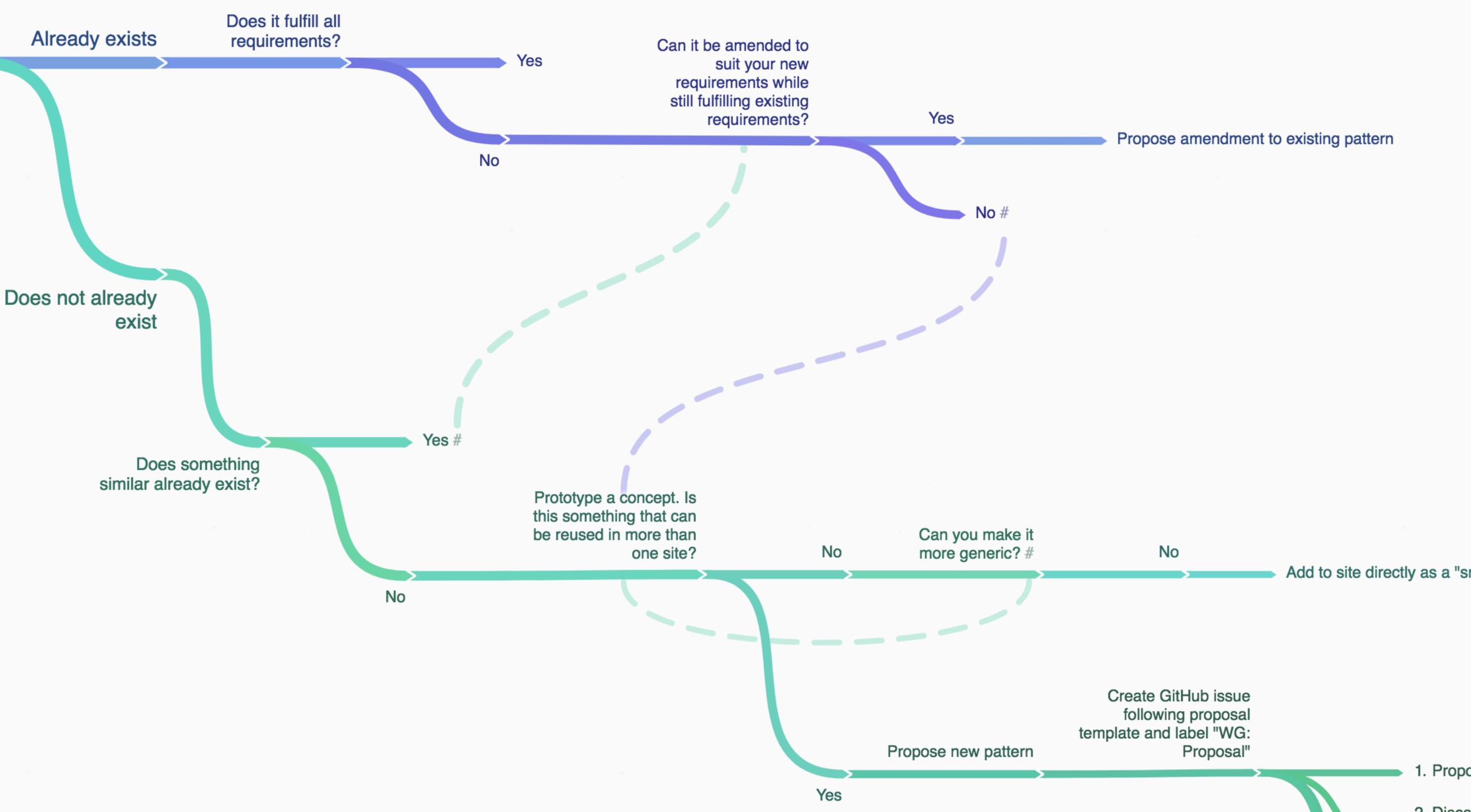


Just like Design, a Design System is **never finished**.



Have a plan & a process for how to extend on your system.





1. Propo

2. Disca

Don't forget to take stock

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