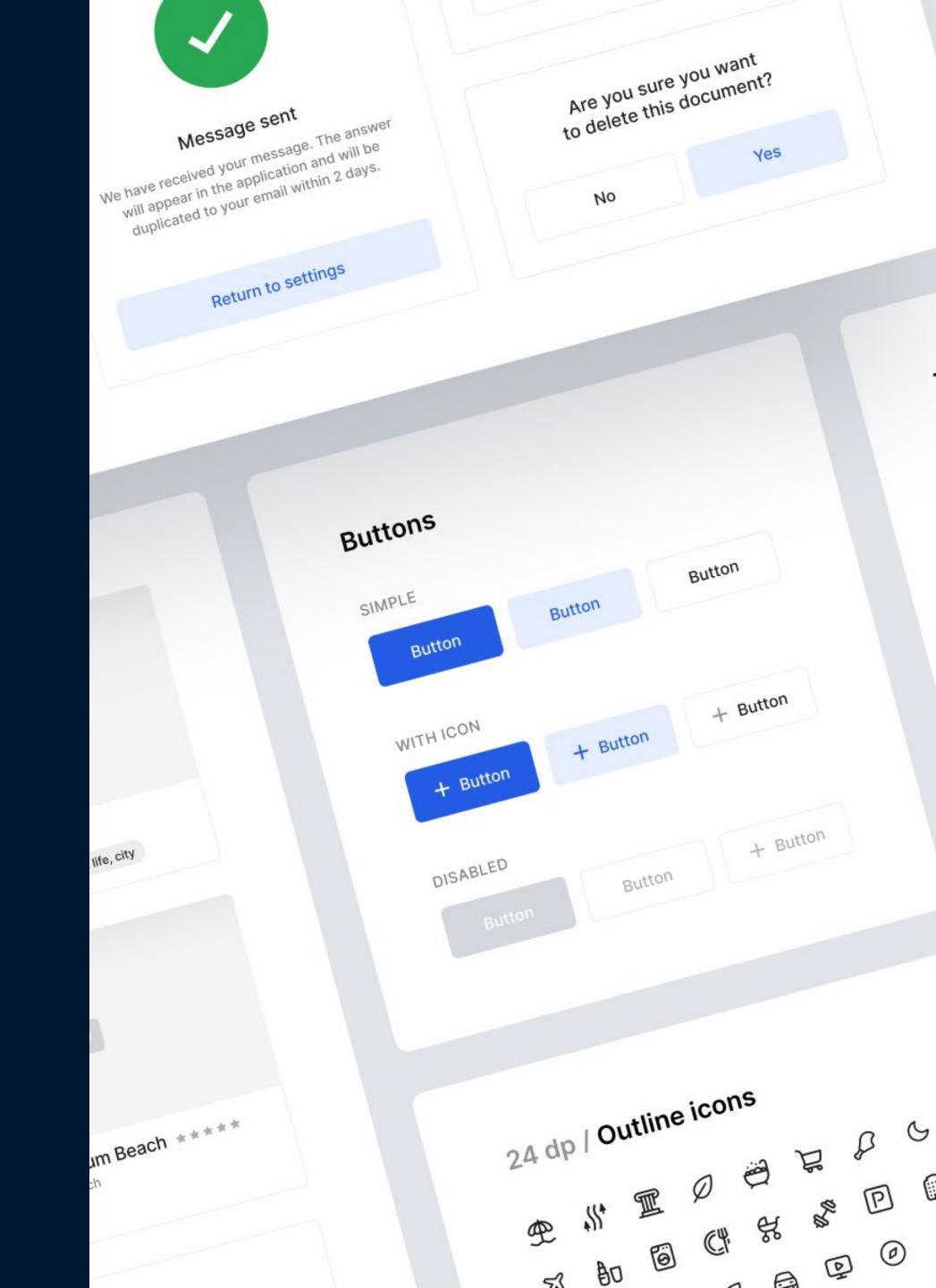
# Design systems

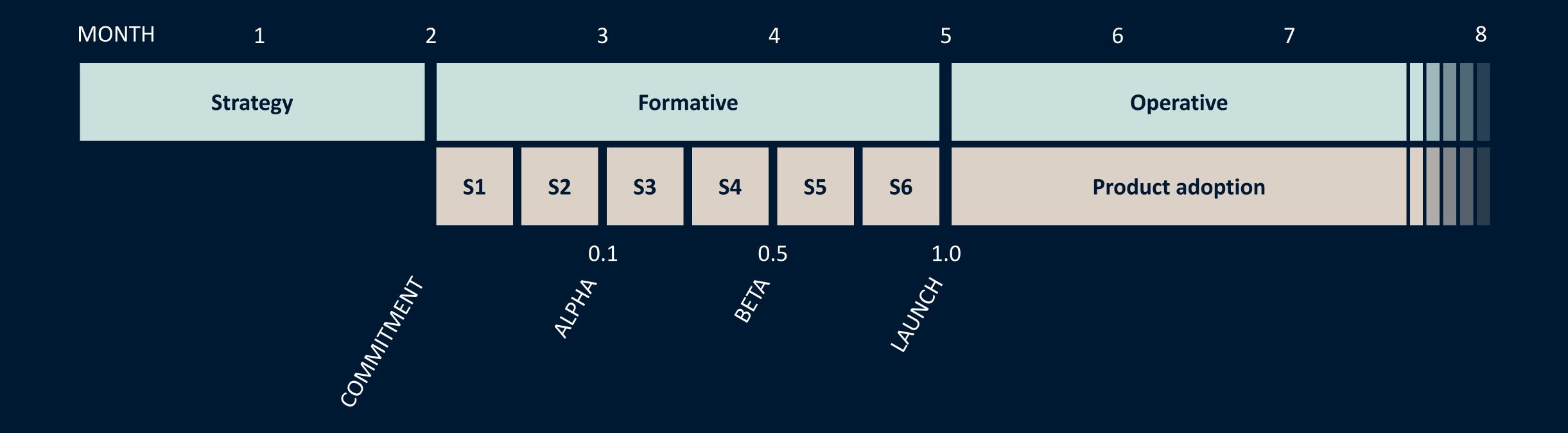
Questions & Answers



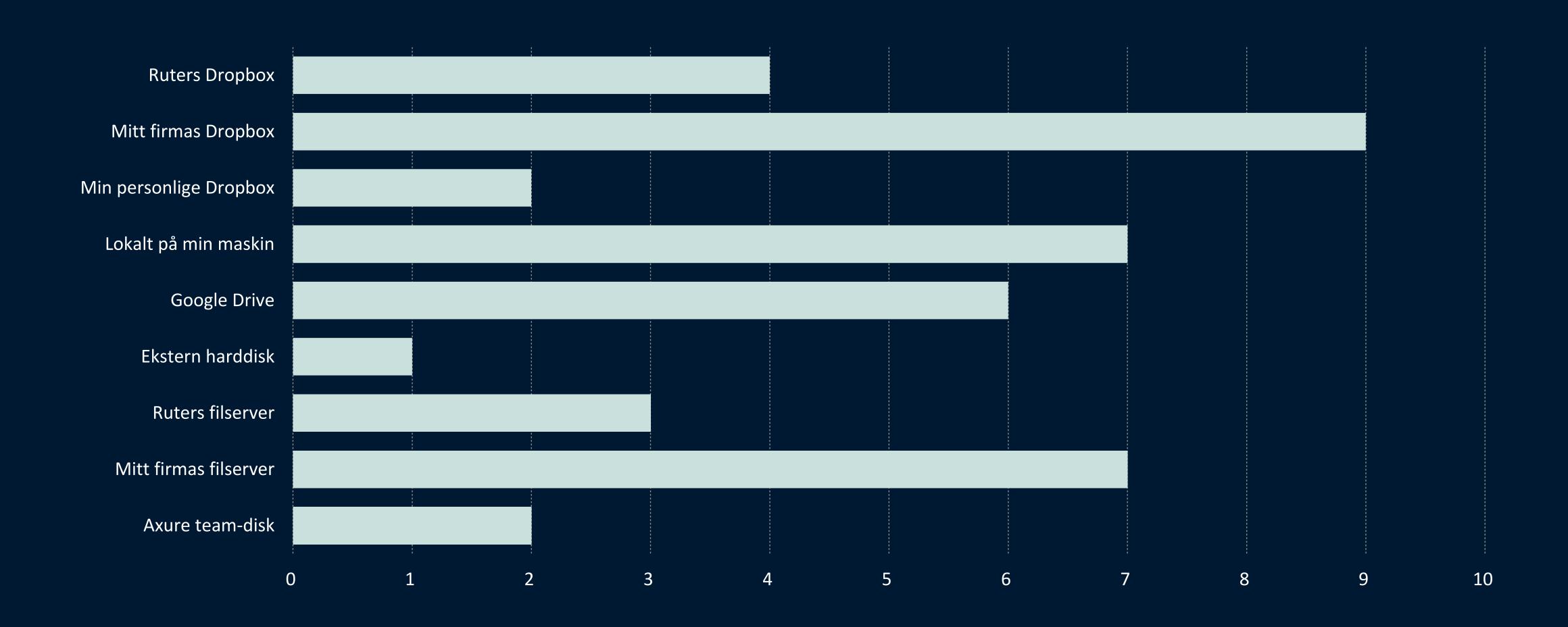
# Starting a design system

How to create a design system from scratch (for a smaller product/startup) - What components are a must? And what to consider?

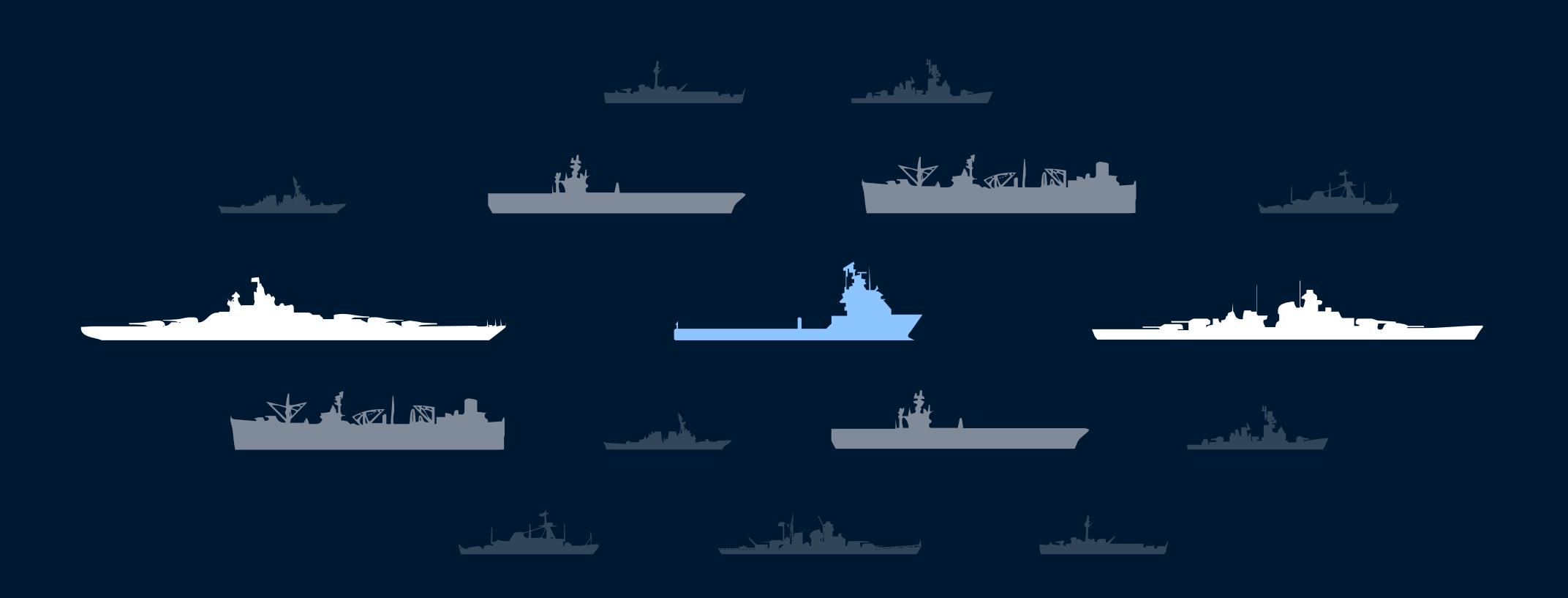
## Design System Lifecycle



#### Design Ops Survey, Ruter april 2018



#### Product Fleet



Design System supports and serves other products

#### Product Fleet

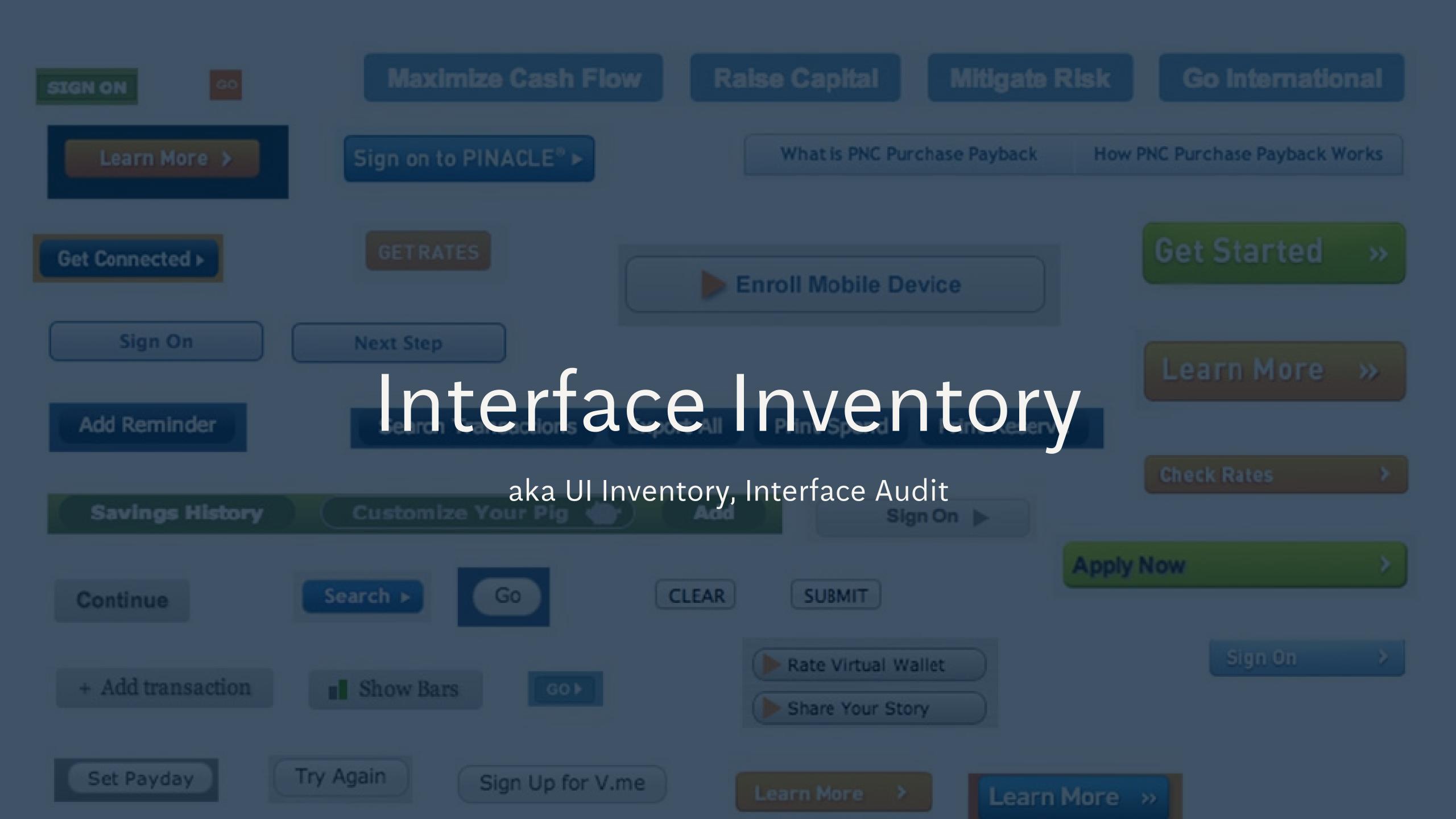


Design System supports and serves other products

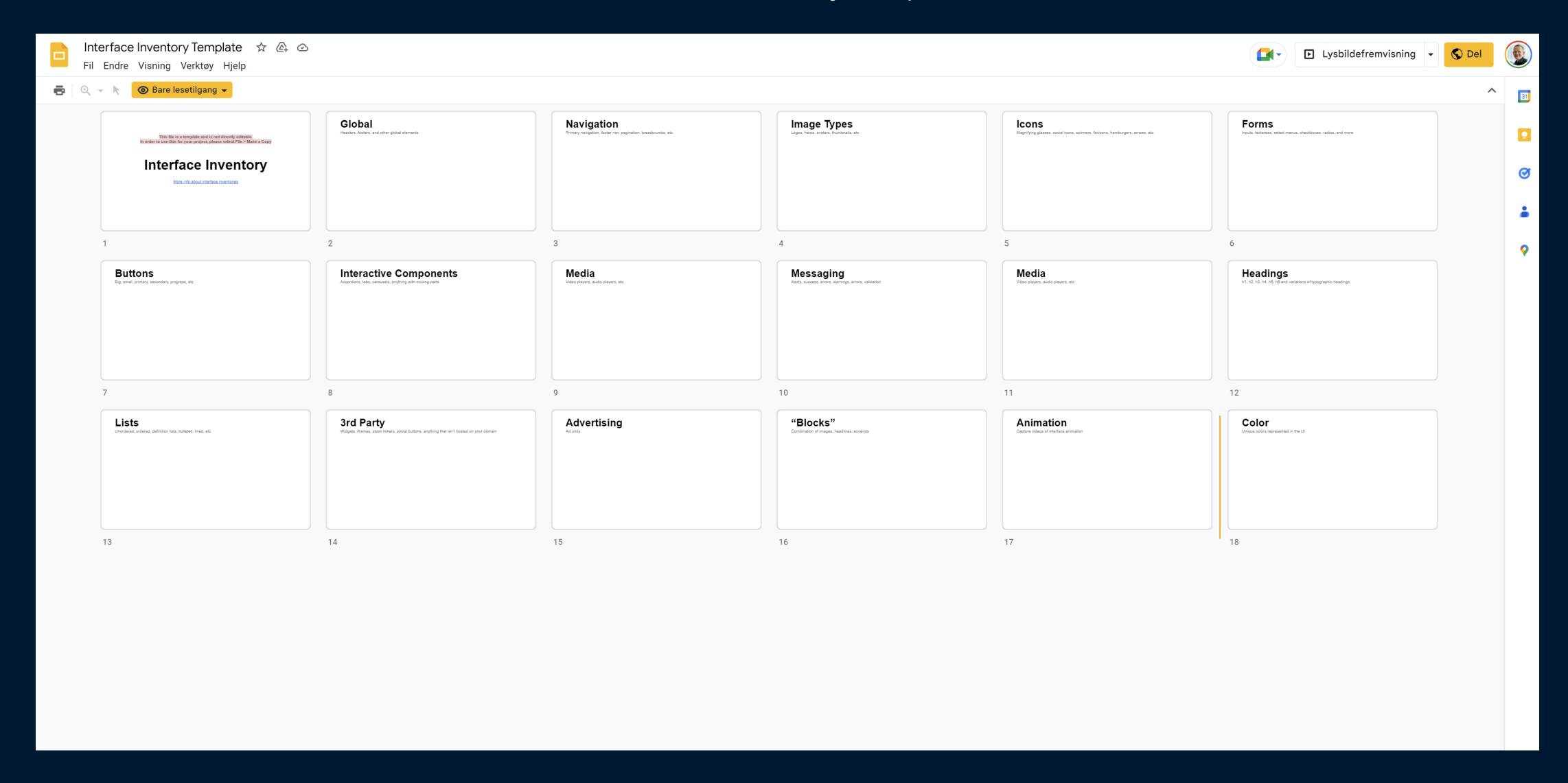
#### Product Fleet



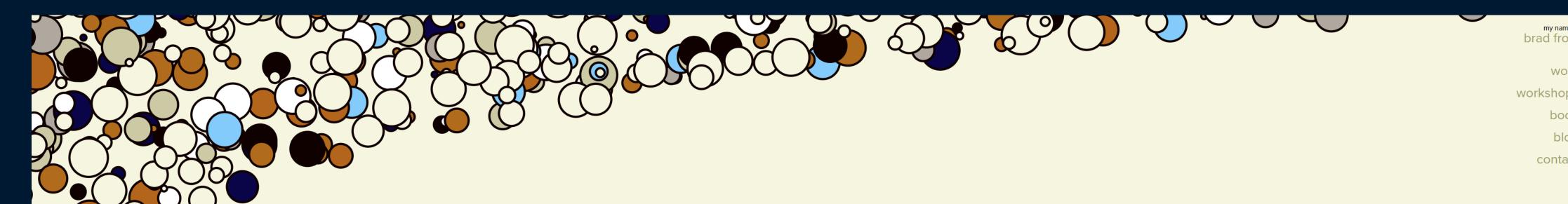
Design System supports and serves other products



## Interface Inventory Template



#### Interface Inventory



Many are familiar with the concept of a <u>content inventory</u>. Content audits are usually performed in the early stages of a website redesign process to take stock of all a site's content. It's a tedious process involving spreadsheets and caffeine, but the hard work <u>pays off</u>. You end up all your content laid out on the table, which gives you a new perspective on what your content is and how to tackle it.

interface inventory

Enter the interface inventory.

An interface inventory is similar to a content inventory, only instead of sifting through and categorizing content, you're taking stock and categorizing the components making up your website, app, intranet, hoobadyboop, or whatever (it doesn't matter). An interface inventory is a comprehensive collection of the bits and pieces that make up your interface.

#### conducting an interface audit

Here are the steps to creating an interface inventory:



## Component Cut-Up

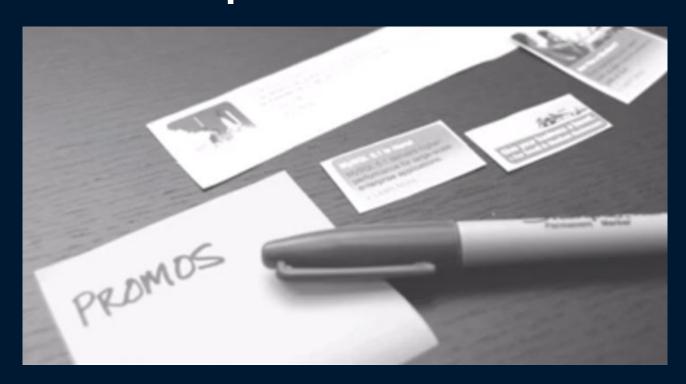
Cut



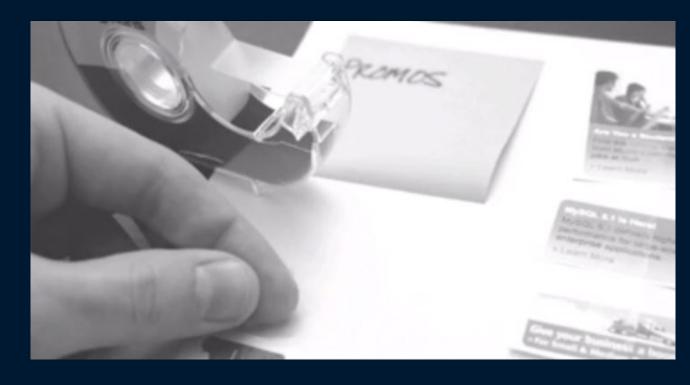
Group



**Label Groups** 



Tape



**Prioritize** 



**Label Components** 



#### The Component Cut-up Workshop



#### **The Component Cut-Up Workshop**

Kickoff a Design Library Effort by Engaging the Whole Team





#### **Nathan Curtis**

24K Followers

Founded UX firm @eightshapes, contributing to the design systems field through consulting and workshops. VT & @uchicago grad.

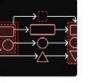




#### More from Medium

Nathan Curtis in EightShapes







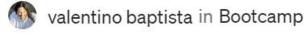






How an audio player component tells the story of NewsKit Design System's changing strategy





Design Tokens for Dummies











# Parts, products and people

A Team Activity to Start a Design System

PARTS	NAME		DATE	
VISUAL LANGUAGE  ✓ Color  □ Palettes, by category ✓ Contrast □ Meaning □ Swatches	<ul><li>✓ Typography</li><li>□ Hierarchy</li><li>□ Weights / types</li><li>✓ Web fonts</li><li>□ Baseline grid</li></ul>	<ul> <li>✓ Iconography</li> <li>□ Pictograms</li> <li>□ Illustration</li> <li>✓ Icon fonts</li> <li>□ Alignment</li> </ul>	<ul><li>□ Motion</li><li>□ Principles</li><li>□ Timing</li><li>□ Types</li><li>□ Transitions</li></ul>	✓ Space ✓ Units / measurments □ Metrics and keylines □ Structure □ Photography
UI ELEMENTS  Paragraph Lead paragraph Block quote Headers (H1 - H6) Lists Links Code	<ul> <li>□ Buttons</li> <li>□ Primary</li> <li>□ Secondary</li> <li>□ Button groups</li> <li>□ Menu buttons</li> <li>□ Split buttons</li> <li>□ FAB (floating action)</li> </ul>	Form controls Text Variants (email, etc) Text area Radio Checkbox Select	Form controls, cont'd  File upload  Labels  Floating labels  Microcopy  Required  Validation	<ul> <li>Divider / rule</li> <li>Switch</li> <li>Slider</li> <li>Image</li> <li>Block</li> <li>Full bleed</li> <li>Inline with positions</li> </ul>
UI COMPONENTS  □ Action bar/sheet □ Back to top □ Badges □ Breadcrumbs □ Calendar picker □ Caption ☑ Cards □ Chat (live) □ Code block □ Comments	Contact us Cookie notification Data tables Dialog Drawer/accordion Filters Footer Footnotes Header Hero billboard	<ul> <li>□ Hero carousel</li> <li>□ Legend</li> <li>□ Loading / spinner</li> <li>□ Local navigation</li> <li>□ Maps</li> <li>□ Menu</li> <li>✓ Messaging</li> <li>□ Toast</li> <li>□ Block</li> <li>✓ Inline error</li> </ul>	✓ Modal  □ Nav Megamenu  □ Pagination  □ Progress bar  □ Pull quote  □ Ratings  □ Reviews  □ Rich text editor  □ Search  □ Sidebar	□ Site/App navigation □ Social networking □ Status (alpha, beta,) □ Tabs □ Tags / chips / pills □ Thumbnails / #-ups □ Tips / tutorial □ Toolbar □ Tooltips □ Video & media
UI PATTERNS  ✓ Authentication  □ Create account  □ Database connection  □ Form structure  □ Launch	<ul> <li>□ Permissions</li> <li>□ Purchase/checkout</li> <li>☑ Settings</li> <li>□ Site / app structure</li> <li>□ Swipe to refresh</li> </ul>	PAGE TEMPLATES  Home Category Product Dashboard Article	<ul><li>□ Search results</li><li>□ Contact us</li><li>□ Getting started</li><li>□ Discussion</li><li>□ Gallery</li></ul>	LAYOUT SYSTEMS  ☐ Grids for sites ☑ Grids for apps ☐ Paneling/transitions ☑ Responsive/breakpoints ☐ Screen sizes
EDITORIAL  Voice & tone Writing for the web Word list Capitalization Punctuation	BRANDING  Identity Logo(s) Tagline(s) Partnerships Themes	RESEARCH & USERS  User needs Personas Research techniques Surveys A/B, multivar. testing	PRACTICES  Accessibility Prototyping Performance SEO Design thinking	CODING STANDARDS  Style Browsers & devices Environments Prog. enhancement Version control
DOWNLOADS  Templates (PSD,) Swatch palettes Fonts Icons	GETTING INVOLVED  Request New Parts Give Feedback Request Audit Present at a Share	ABOUT THE PROGRAM  Home page Principles pillars Getting started FAQ	ABOUT THE TEAM  Team Recruiting jobs	UTILITIES  Variables / tokens  Mixins Helpers Customize

SYS'	TEM
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NAME	DATE	
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#### **PARTS**

#### **PRODUCTS**

#### **PEOPLE**

DISCIPLINE(S)

ЦX

PDM

Content

ЦX

ЦX

FED

Design

Design

Design

Brand

ЦX

ЦX

NAME	VALUE	NAME (TIER)	PLATFORM	NAME
Color (basic)	# 1	WebMarketing	WS	Amanda
		WebSupport S	WS	Daniel
Typography (basic)	,)	Corporate	WS	Lisa
		Communities F	WS	Chris
lconography	# 1	iPhone App (F)	i0S	Joel
loor looj volp vi y		iPad App	ios	Hassan
4 Buttons		Android App	And	Sukpir
Palloris		Collaboration (E)	ios	Rob
5 Forms		Messaging S	WA	Billy
		eCommerce S	WA	Darla
Cleatala Tahadata	.5	My Account (F)	WA	Gina
Sketch Templates		My Account, legacy	WA	Marty
7		Docs	WS	Nicky
L090		Dev Premium	WA	
8 Voice & Tone		Profiler	Windows	
		Profiler	Macosx	
9 Clobal Naviantion				
Global Navigation				
10				
Links				

Discipline: UX • DESign • CONtent • FED • Platform(s): WS Web Site • WA Web App • iOS
• AND Android • WIN Windows • [Other]

C=Central

#### Picking Parts, Products & People



#### Picking Parts, Products & People

A Team Activity to Start a Design System



Teams can be awed by the scale and spread visible in finished systems like Material Design or Lightning Design System. Systems can be both incredibly broad and deep once fully formed, if they ever get that far. Faced with such



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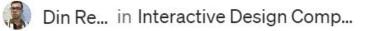
#### More from Medium



Nathan Curtis in EightShapes









Design tokens: what they are and how to work with them



How to make your Figma

Alex Zlatkus in UX Collective



components easier to use



**Design Tokens for Dummies** 





W

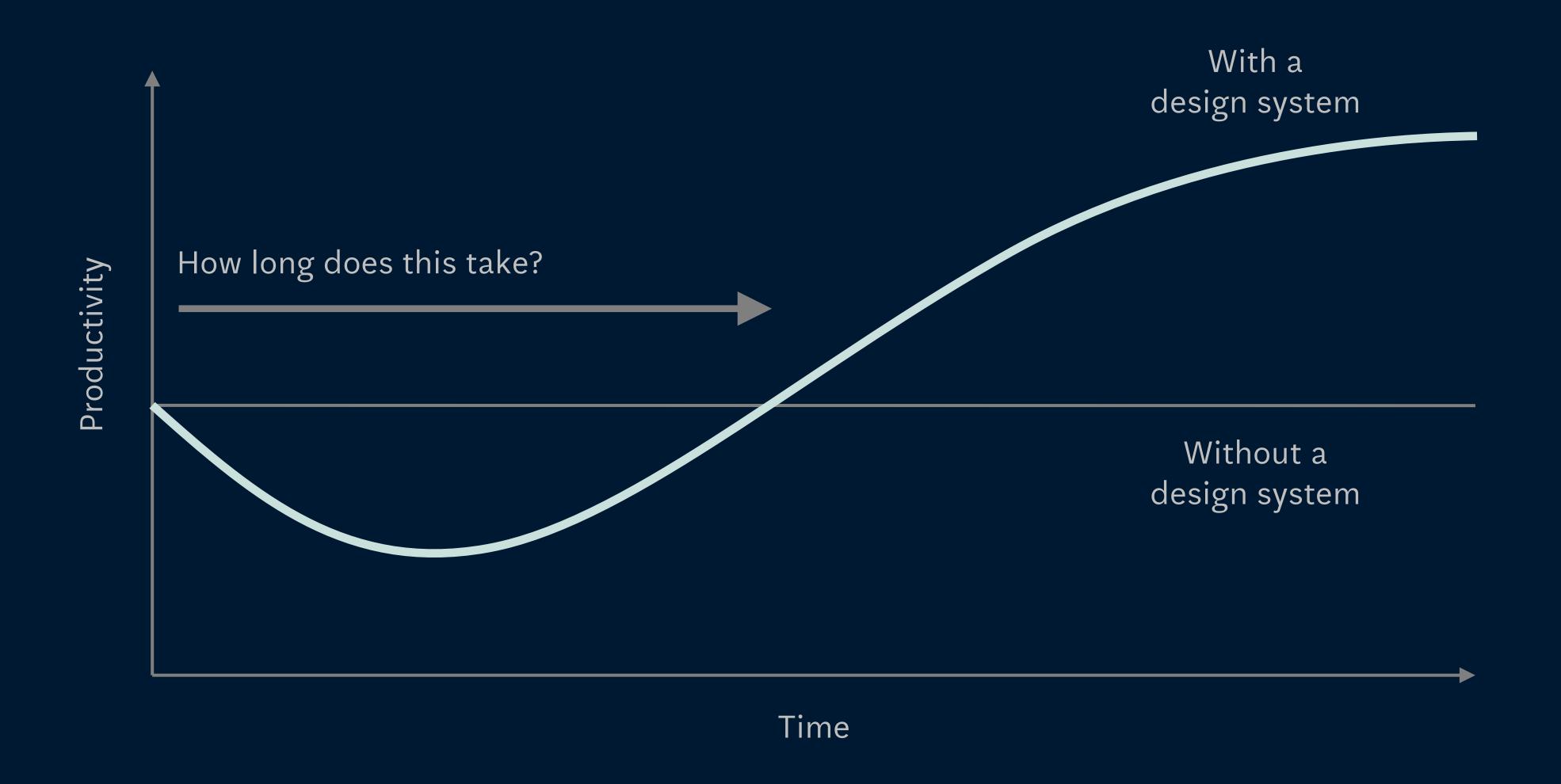
 $\equiv$ 

#### Cost vs Gains, ROI

$$COST = max\left(\frac{240}{X}, 6\right) \cdot X\% + min\left(60 - \frac{240}{X}, 54\right) \cdot Y\%$$

GAIN = 
$$max\left(\frac{120}{X},3\right)\cdot\frac{Z\%}{2}$$
 +  $min\left(60-\frac{240}{X},54\right)\cdot Z\%$ 

## The Design System Efficiency Curve



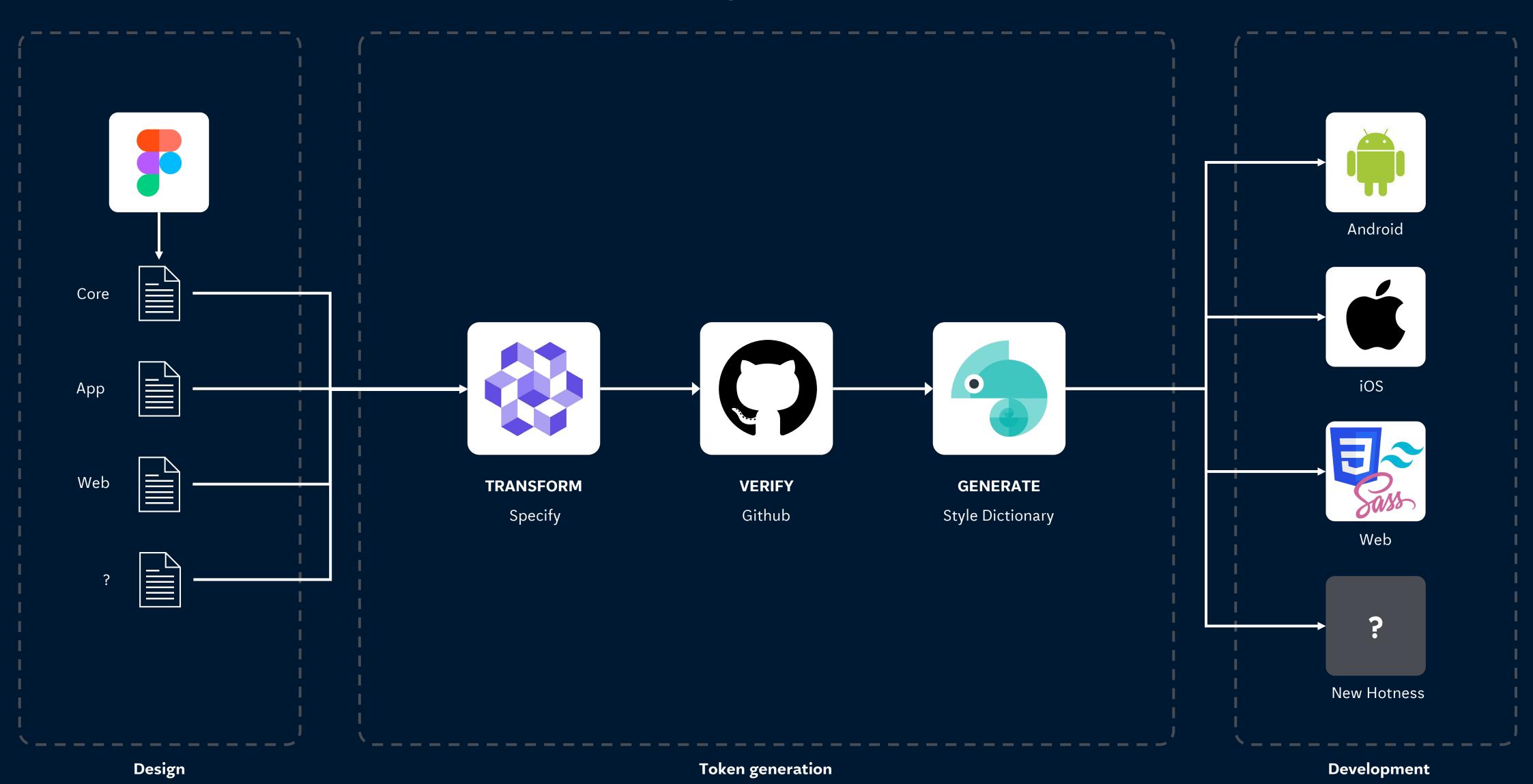
# Design + Develop =

How to coordinate a design system with developers? Best practices and different ways to do it.

Brad Frost & Dan Mall «Hot Potato Process»



## Design Pipeline



**NºA** Ignite

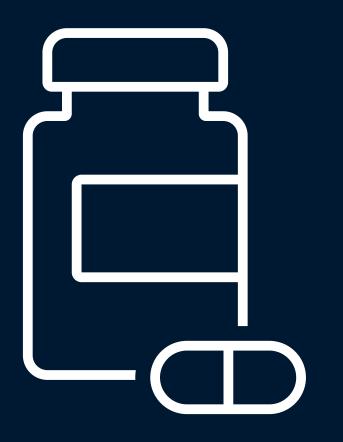
# Build your own, or...?

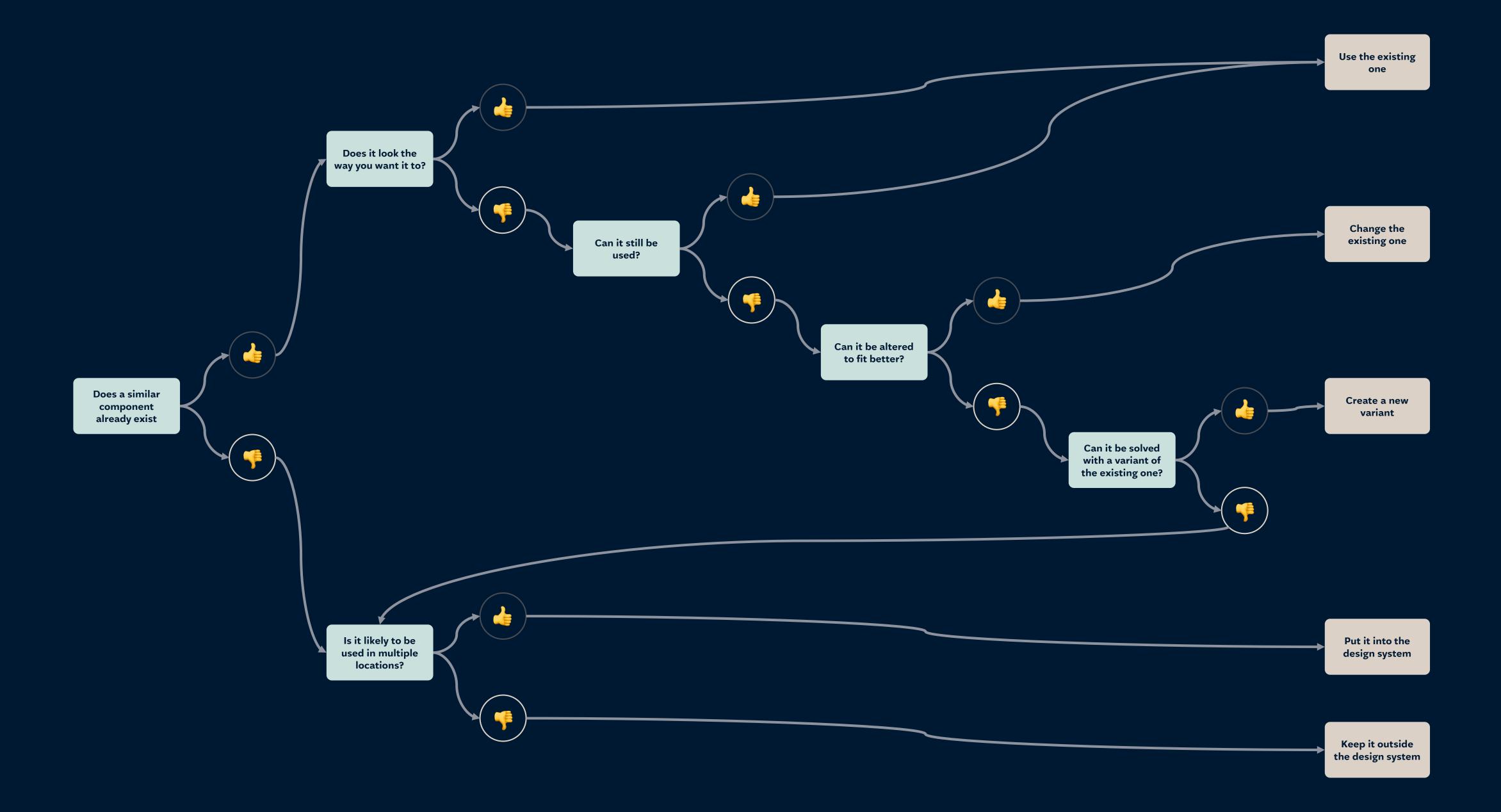
Use or buy a design system



## Across Teams & Products

Considerations when building design systems across teams and product. What can be common, when to be specific?





# Creativity vs Systematic

How to combine design exploration while laying the ground work for building design system?

#### Does systems make it hard to be creative?

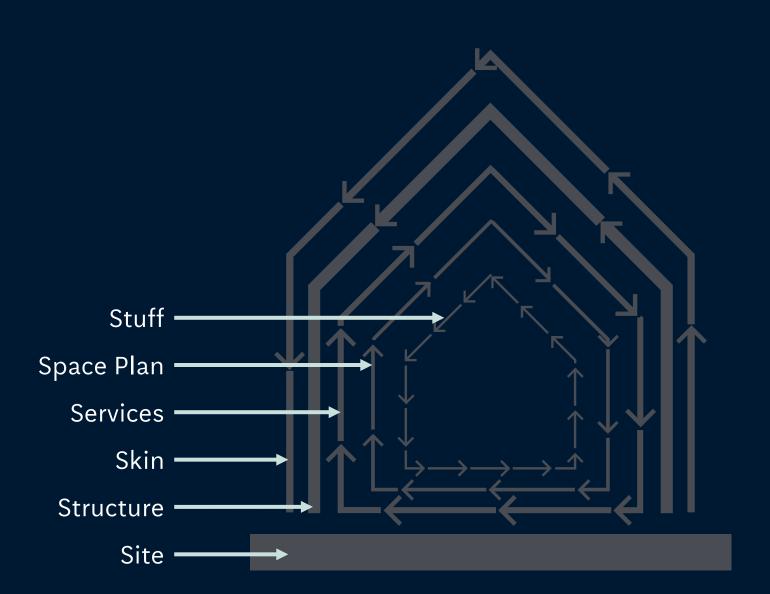


## Does systems make it hard to be creativity?





## Pace Layering

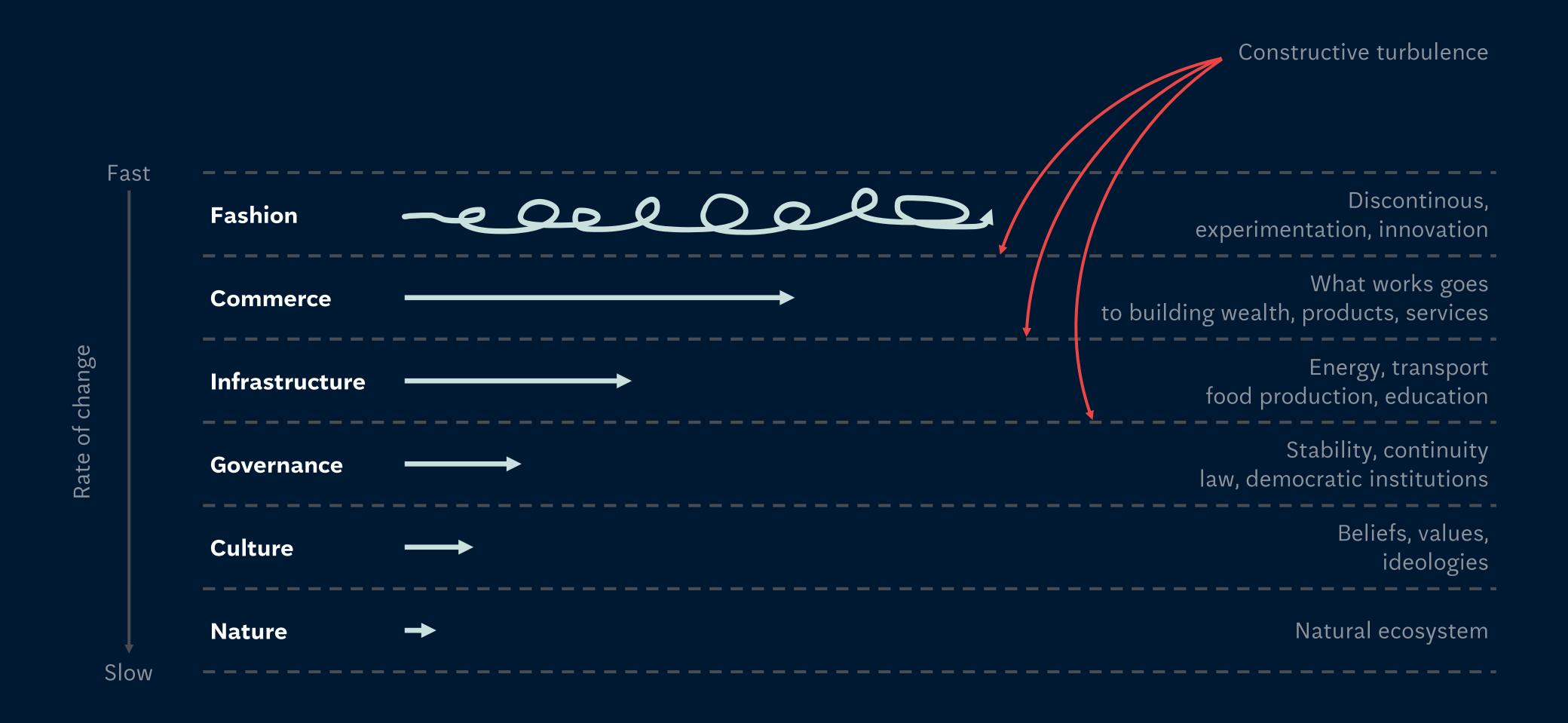


Shearing layers of change. Because of the different rates of change of its components, a building is always tearing itself apart

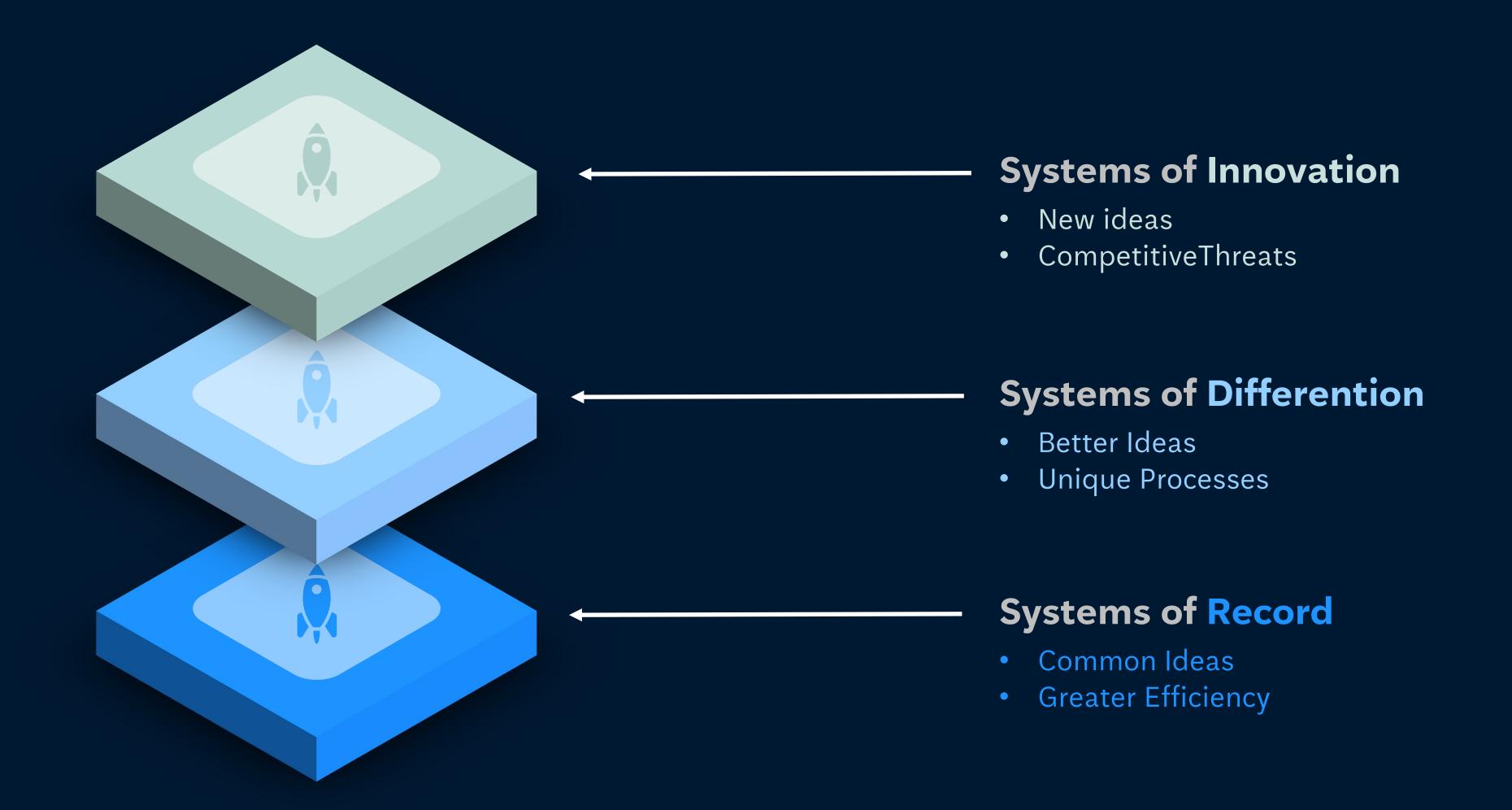
Steward Brand

"The power is in the slow parts, but the fast parts get all the attention."

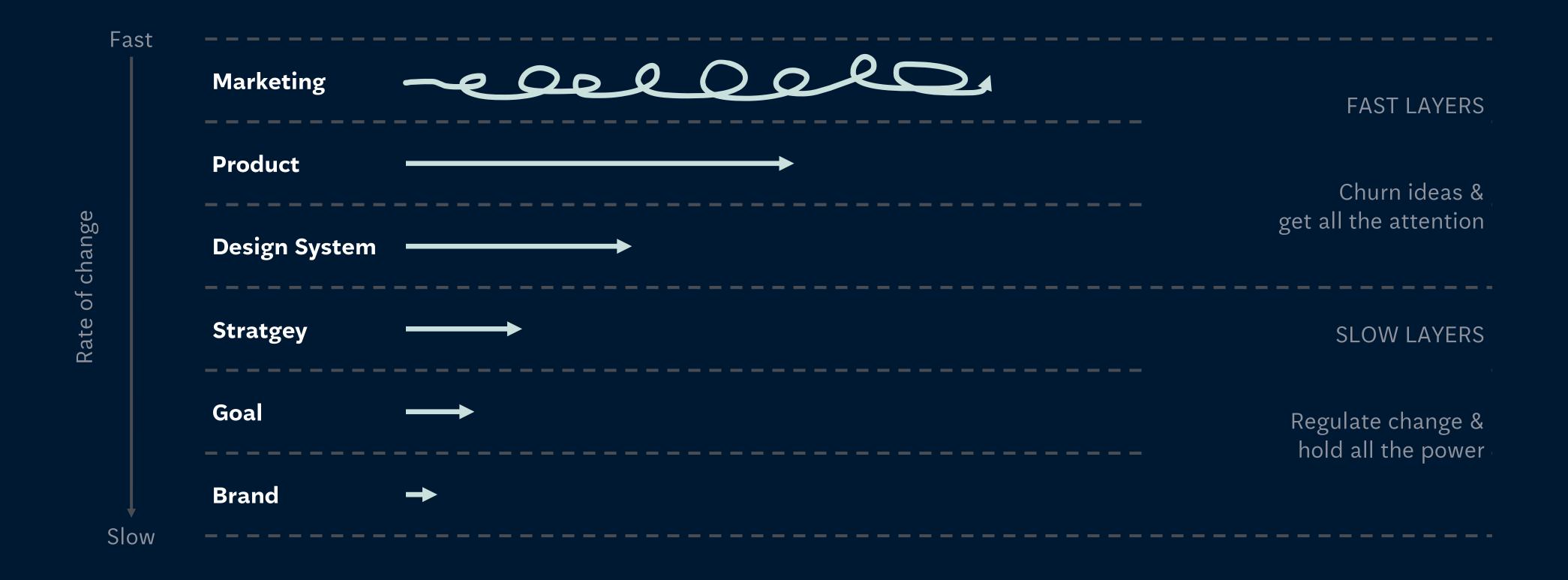
#### Pace layering



#### Gartner Pace Layering Strategy



#### Pace layering



# Workflow

How far along in the design process to start creating a design system?

# 

## Workflow

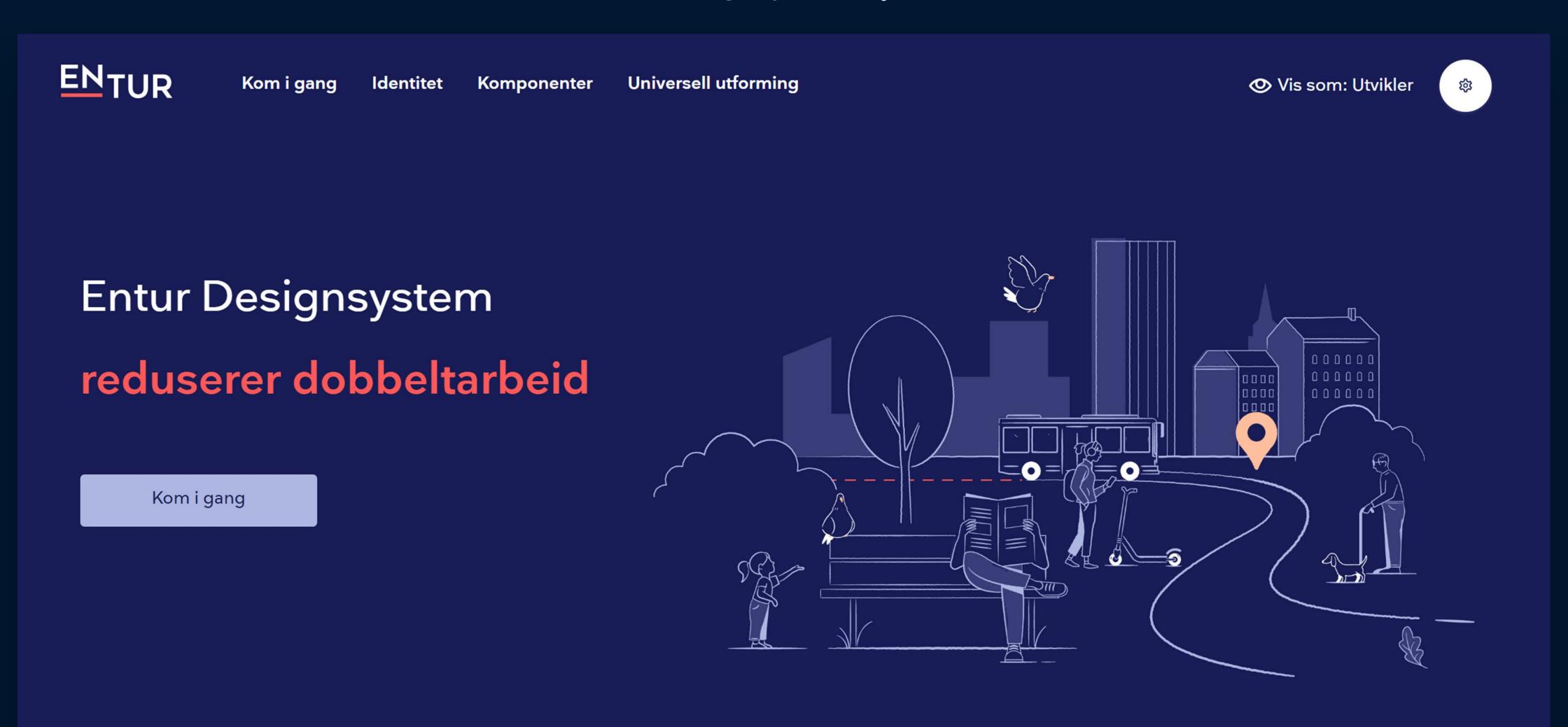
In what order to create design system content



## Examples

Various examples of design systems (beyond Figma)

#### Entur Designsystem by ENTUR



#### Jøkul by Fremtind

Jøkul Kom i gang Profil Komponenter Universell utforming Guider Blogg



## Bevegelse

Vi skal utforske, se fremover og være tilpasningsdyktige.

#### Spor by Vy

### Velkommen til Spor

Se hvordan du kan bidra →





#### Kom i gang

Sett opp Spor i ditt prosjekt på få minutter



#### Komponenter

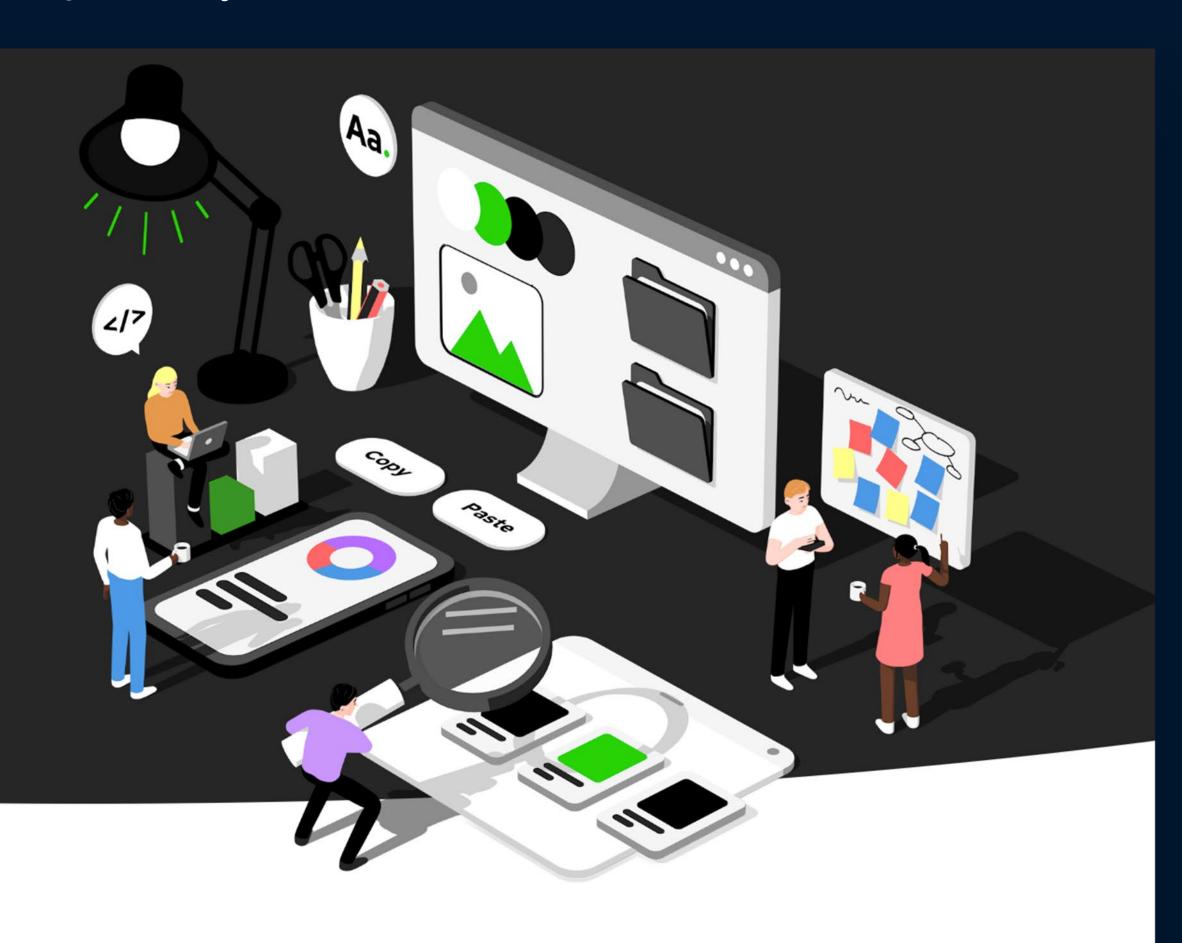
Se byggeklossene du har tilgjengelig for å bygge brukergrensesnitt

#### Elvia Design System by Elvia

## Elvia design system.

A scalable system of visual language, components and design assets so we can work together towards an ultimate brand experience.

Get started





Components



The Concept



Accessibility

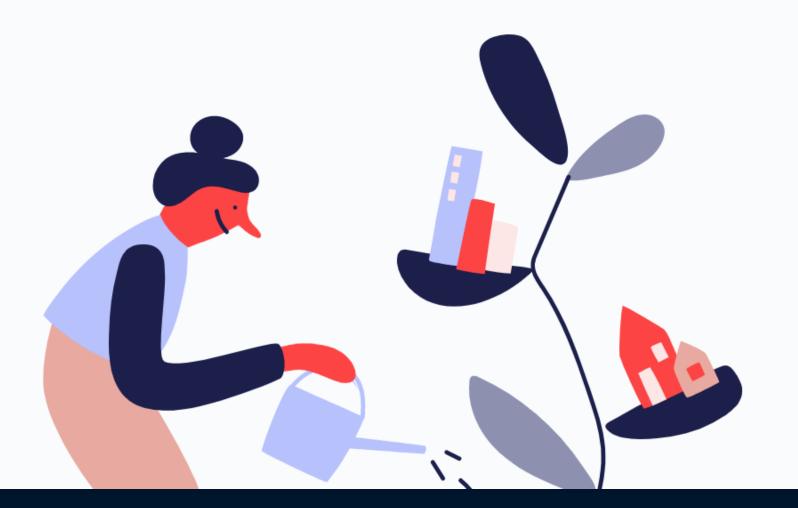


Contribute

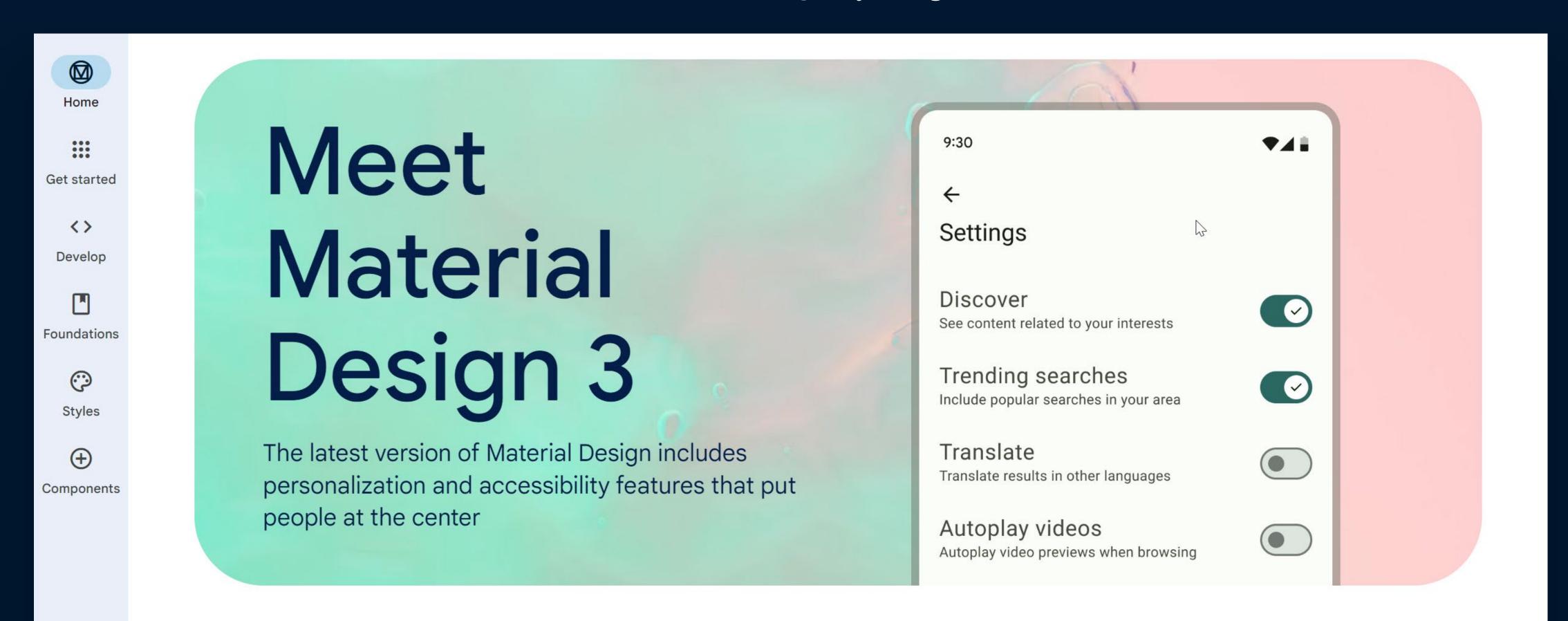
#### Ruter Design System by Ruter



Ruters designsystem består av verktøy, komponenter, retningslinjer og prosesser som gjør det mulig å lage meningsfulle brukeropplevelser som henger sammen.



#### Material Design by Google



Migrate to Material Design 3

Start using the latest features in your existing product

#### Tegel Design System by Scania

TEGEL DESIGN SYSTEM





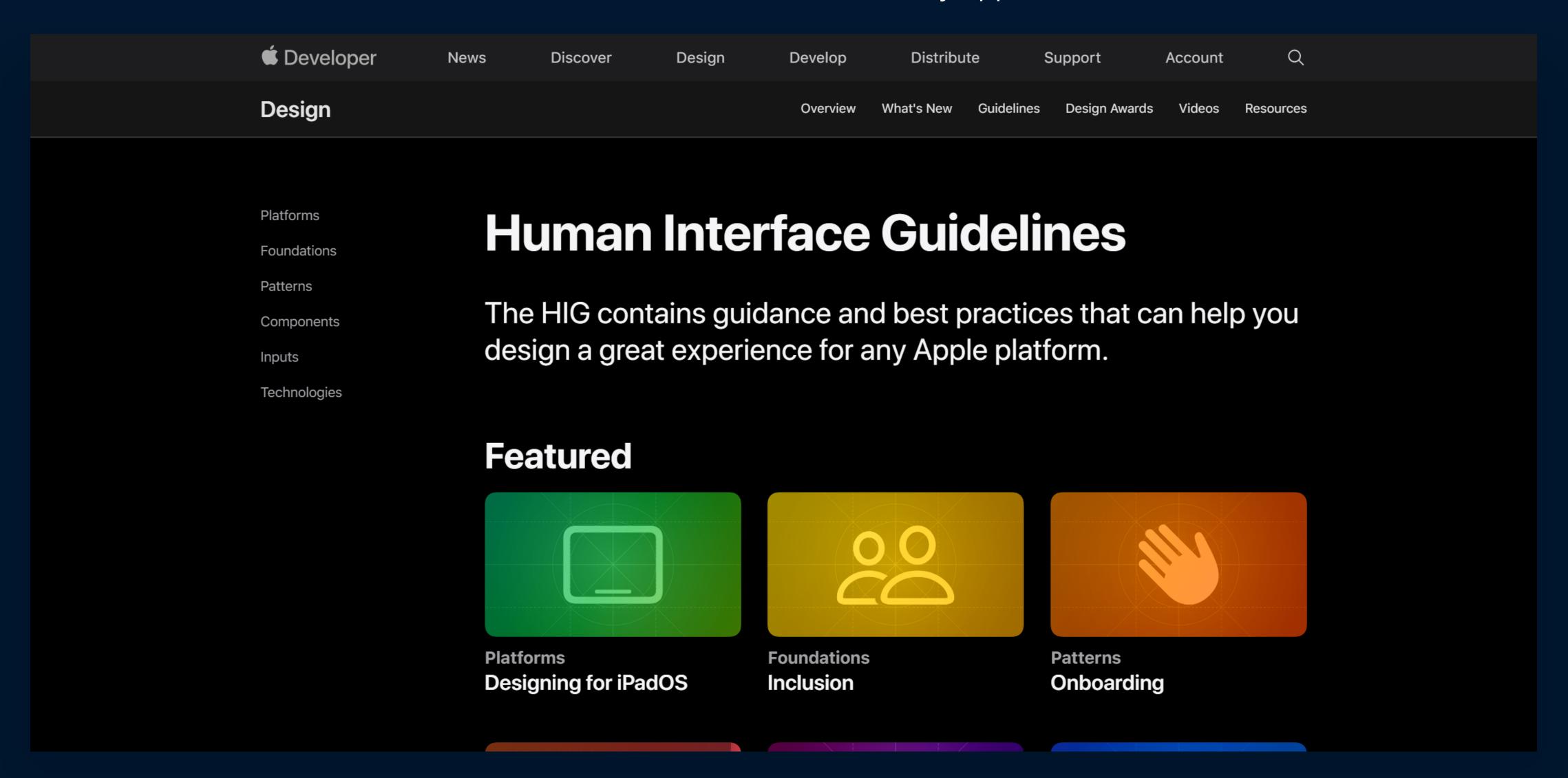
# DESIGNING THE SHIFT

Start designing  $\rightarrow$  Start developing  $\rightarrow$ 

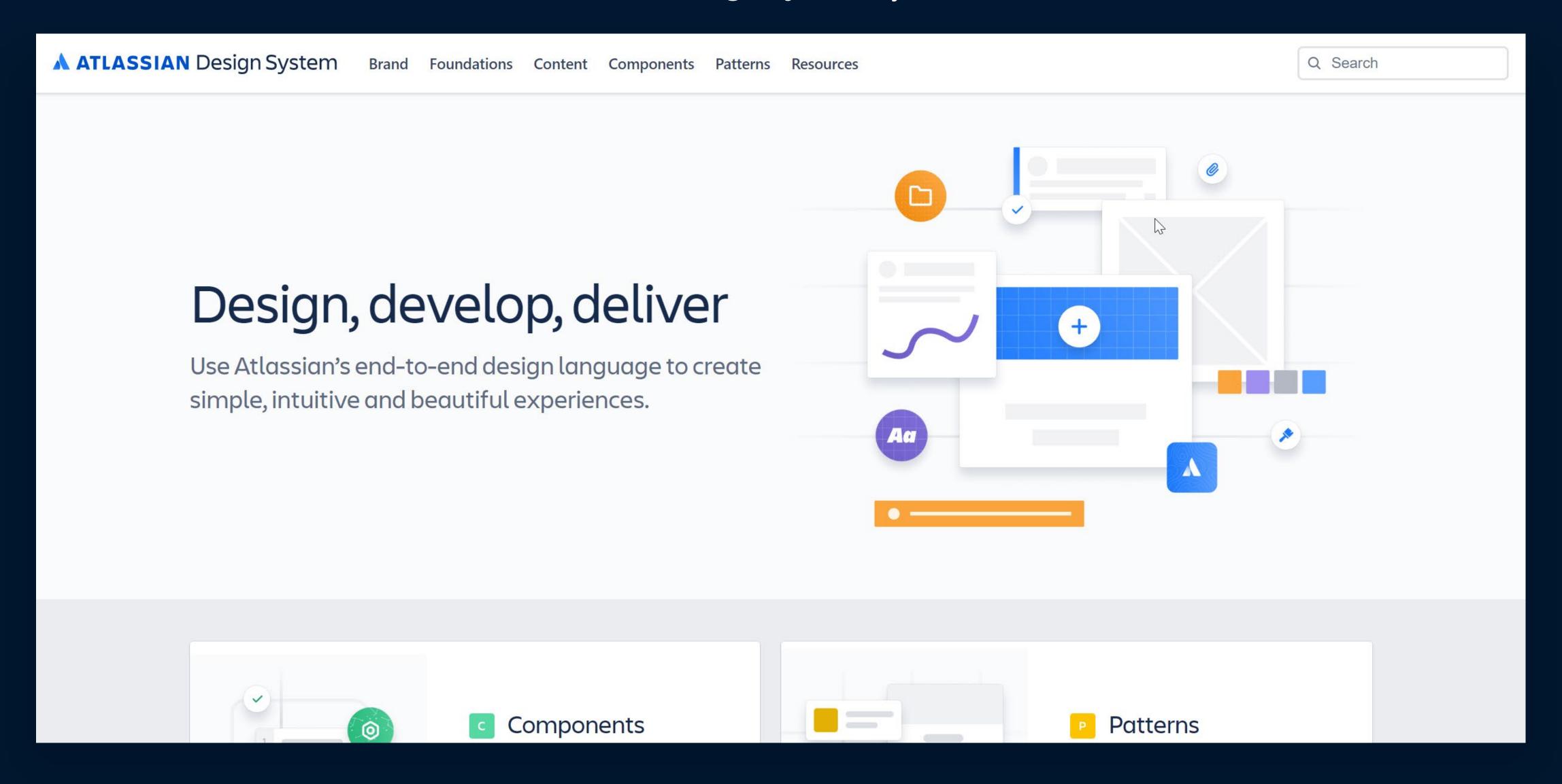
The Tegel Design System is for digital products and services at Scania. It enables an efficient development process and ensures a premium experience across all of Scania's digital touchpoints.

Foundations Grids, Spacing, Colour and more	Components Buttons, Cards, Modals and more	Patterns Forms, Login and more
Resources	Support	Extras

#### **Human Interface Guidelines** by Apple



#### Atlassian Design System by Atlassian



#### Carbon by IBM



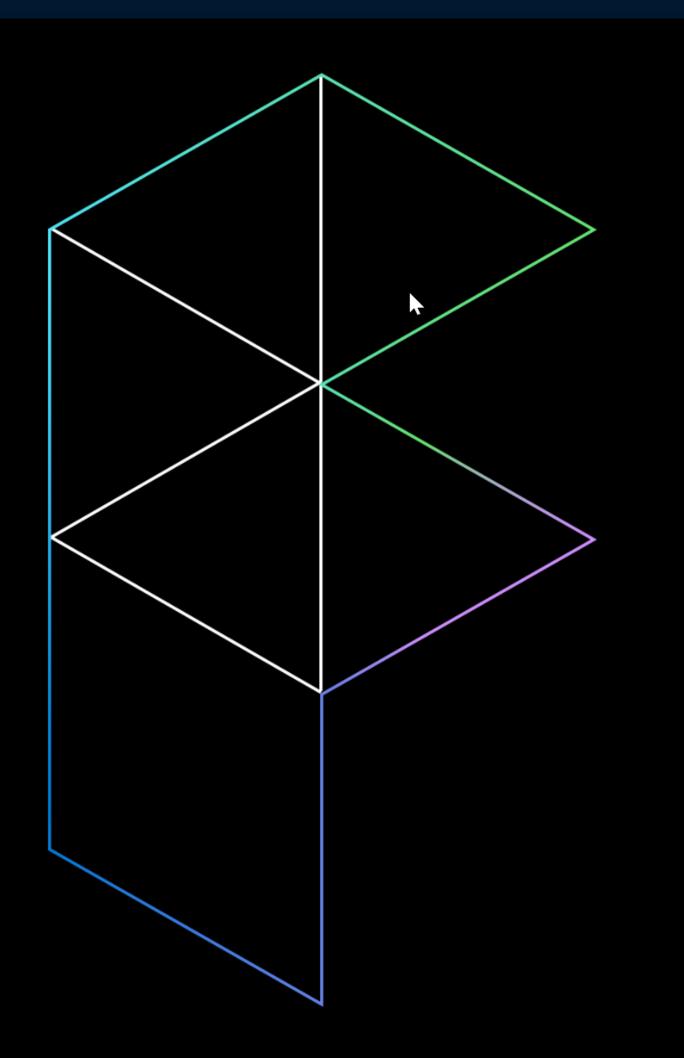
#### Fluent by Microsoft

# Fluent Design System

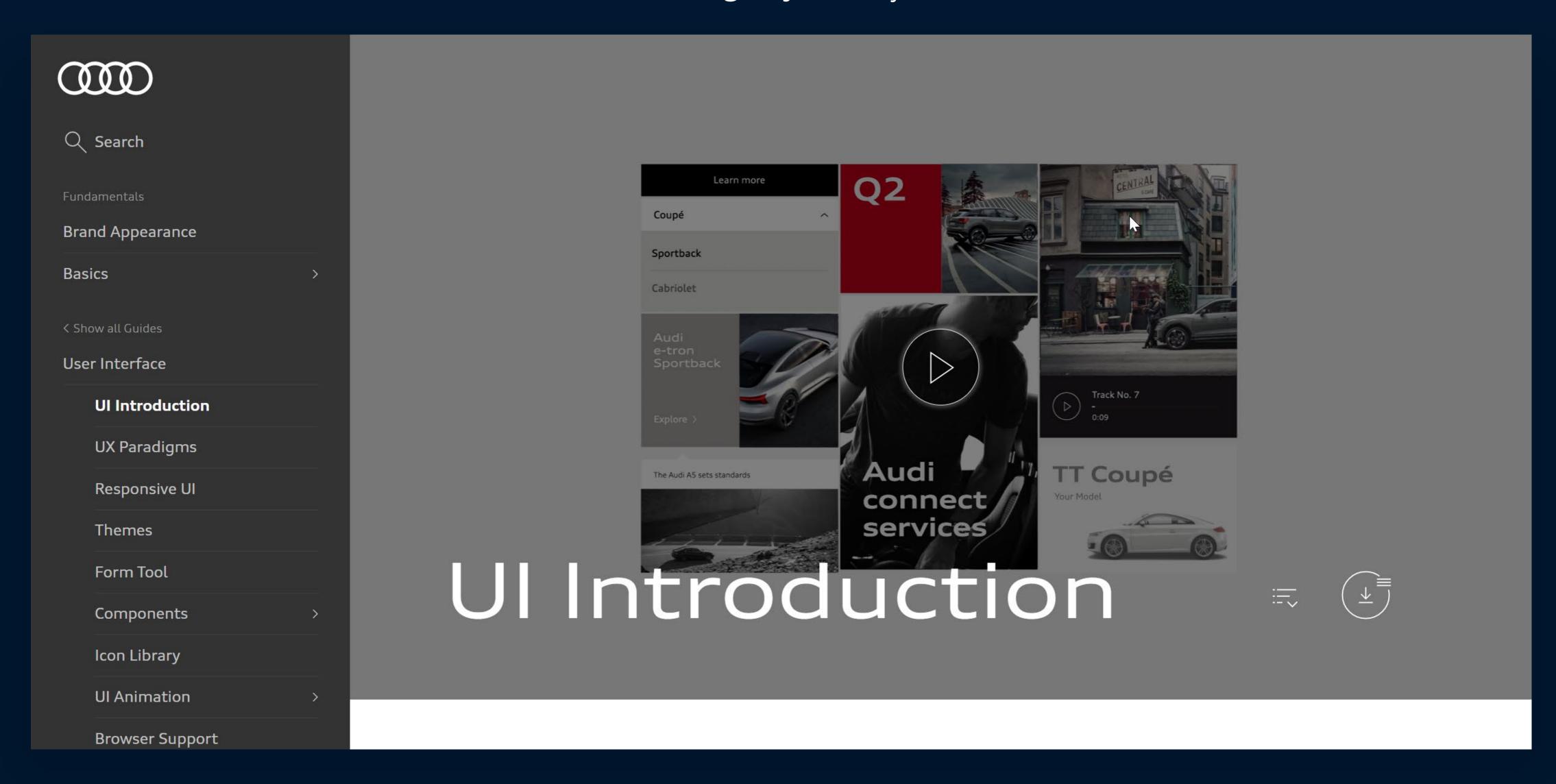
No need to start from scratch.

Fluent is an open-source, cross-platform design system that gives designers and developers the frameworks they need to create engaging product experiences—accessibility, internationalization, and performance included.

Go ahead, pick a platform to get started.



#### Audi Design System by Audi



#### Clarity by VMware



Documentation

together to craft exceptional experiences

Icons

Community

What's New

## Clarity Design System

UX guidelines, HTML/CSS framework, and Angular components working

**GET STARTED** 

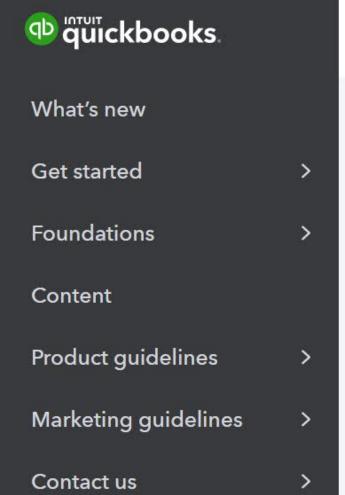
DOCUMENTATION

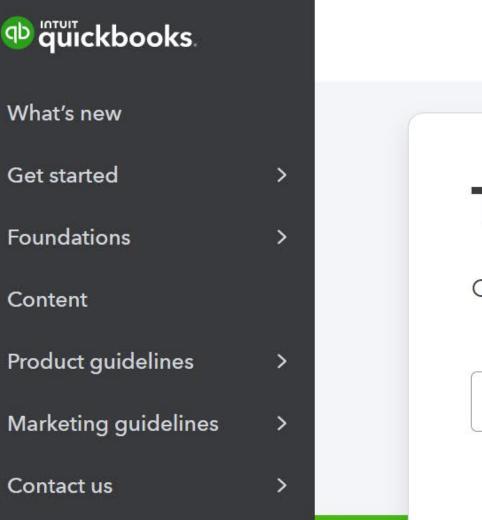
View the source on GitHub



Designed for designers and built for developers

#### Quickbooks by Intuit





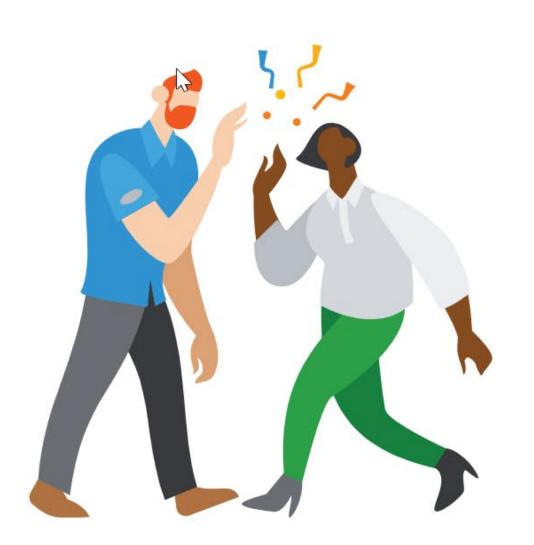
# The QuickBooks Design System

Components, guidelines, and tools | Part of the Intuit Design System



#### Intuit teams build design foundations that last

Since the beginning of the year, designers and design leaders across Intuit have been working on durable and adaptable components that will become uniform across all Intuit experiences. Read about this effort, leaders, and logos in what's new.



Sign in

Help

#### **Improve your Figma skills**

See the Figma FAQs

#### **Lightning Design System** by Salesforce



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  - <a href="https://jods.mitpress.mit.edu/pub/issue3-brand/release/2">https://jods.mitpress.mit.edu/pub/issue3-brand/release/2</a>

## Thank you!

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