Atomic Design & Design System

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3. How to create Designer Kit
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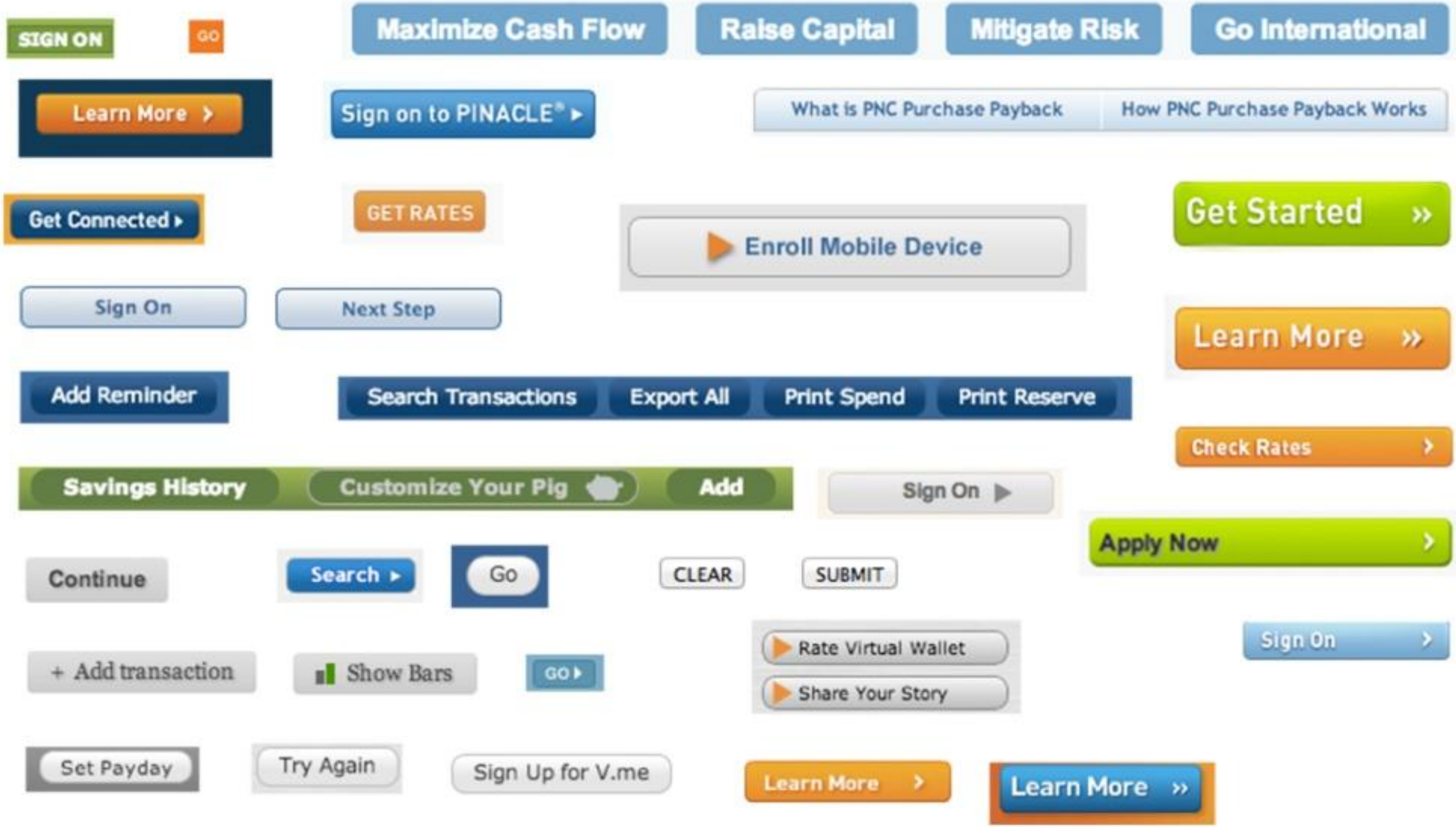
Why Design system?

Does your design have the following problems?

- INCONSISTENCY
- HARD TO TRAIN NEW DESIGNER
- HARD TO UPDATE
- HARD TO SCALE DESIGN TO NEW PLATFORM
- YOUR DESIGN LOOK THE SAME WITH OTHER SITES


SIGN ON
GO
Maximize Cash Flow
Raise Capital
Mitigate Risk
Go International
Learn More
Sign on to PINACLE®
What is PNC Purchase Payback
How PNC Purchase Payback Works
Get Connected
GET RATES
Enroll Mobile Device
Get Started
Sign On
Next Step
Learn More
Add Reminder
Search Transactions
Export All
Print Spend
Print Reserve
Check Rates
Savings History
Customize Your Pig
Add
Sign On
Apply Now
Continue
Search
Go
CLEAR
SUBMIT
Rate Virtual Wallet
Sign On
+ Add transaction
Show Bars
GO
Share Your Story
Set Payday
Try Again
Sign Up for V.me
Learn More
Learn More

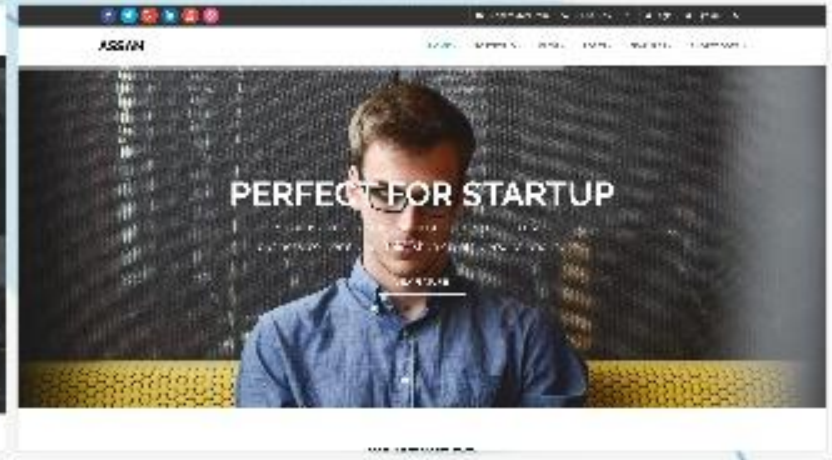
WE LOVE OUR CLIENTS LET'S TALK!

ASSAN
RAISE YOUR HELPING HAND

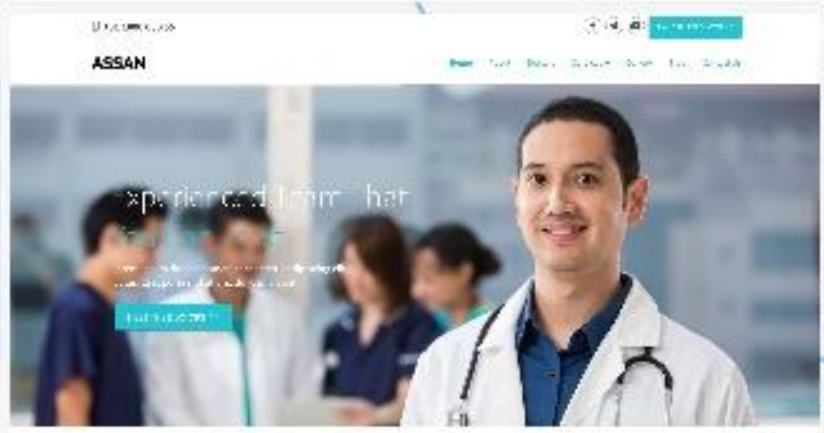
The Project

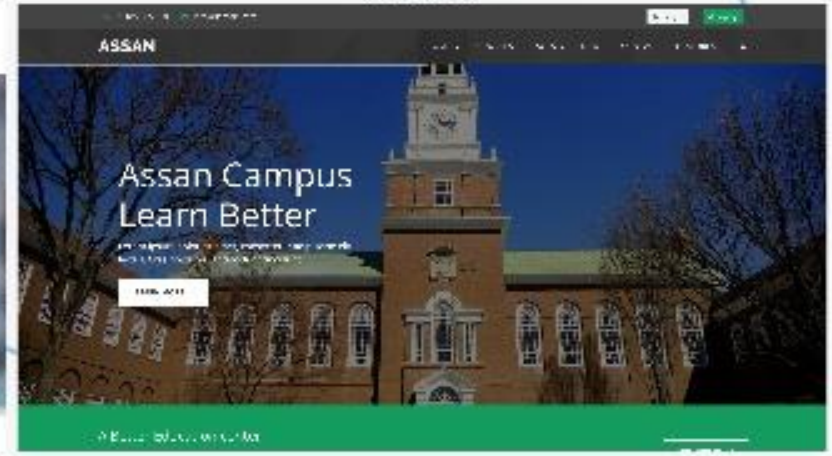
TSHOP
40% - 50%
OFF SALE

AppStrap
Welcome To AppStrap

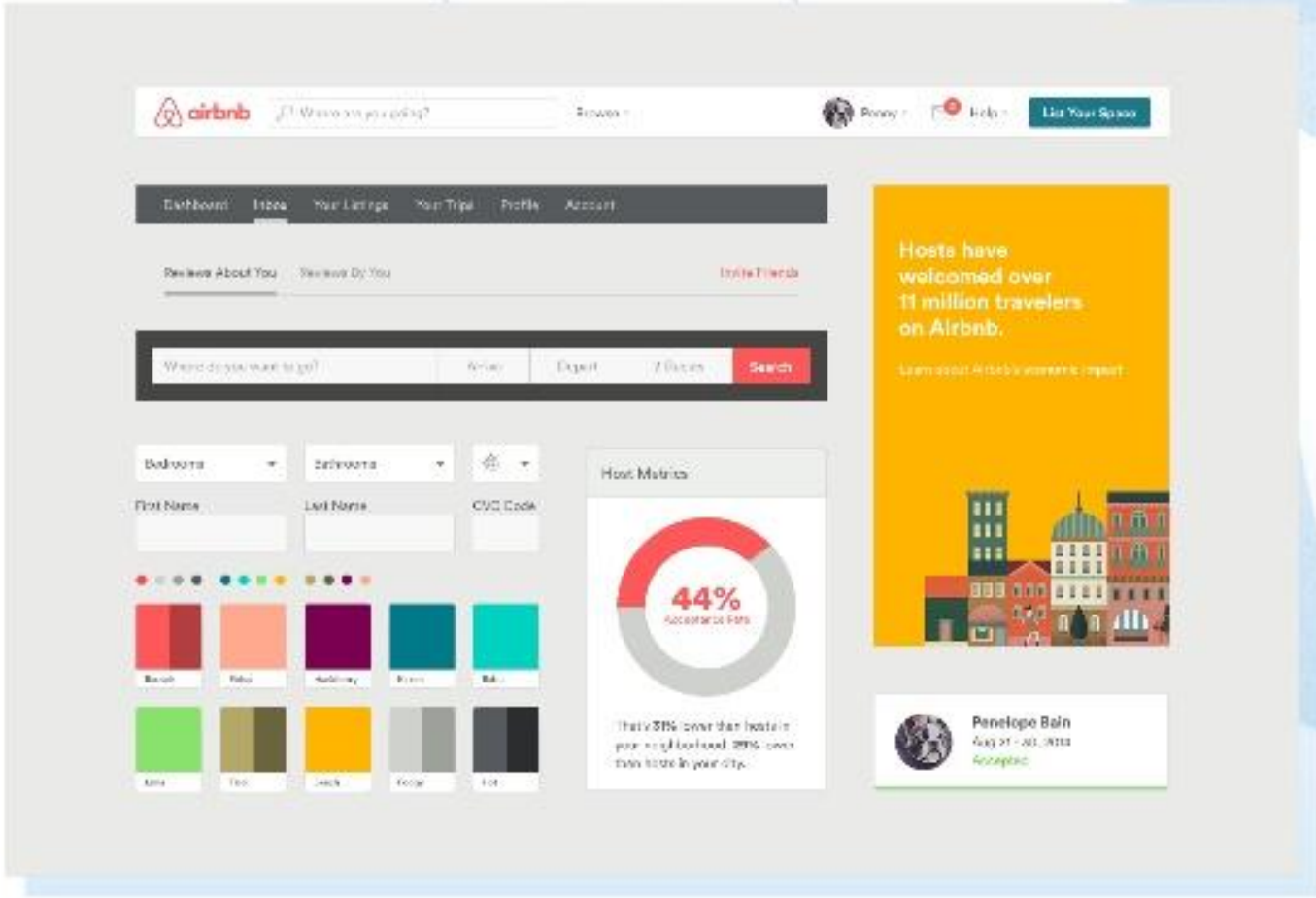

ASSAN
PERFECT FOR STARTUP

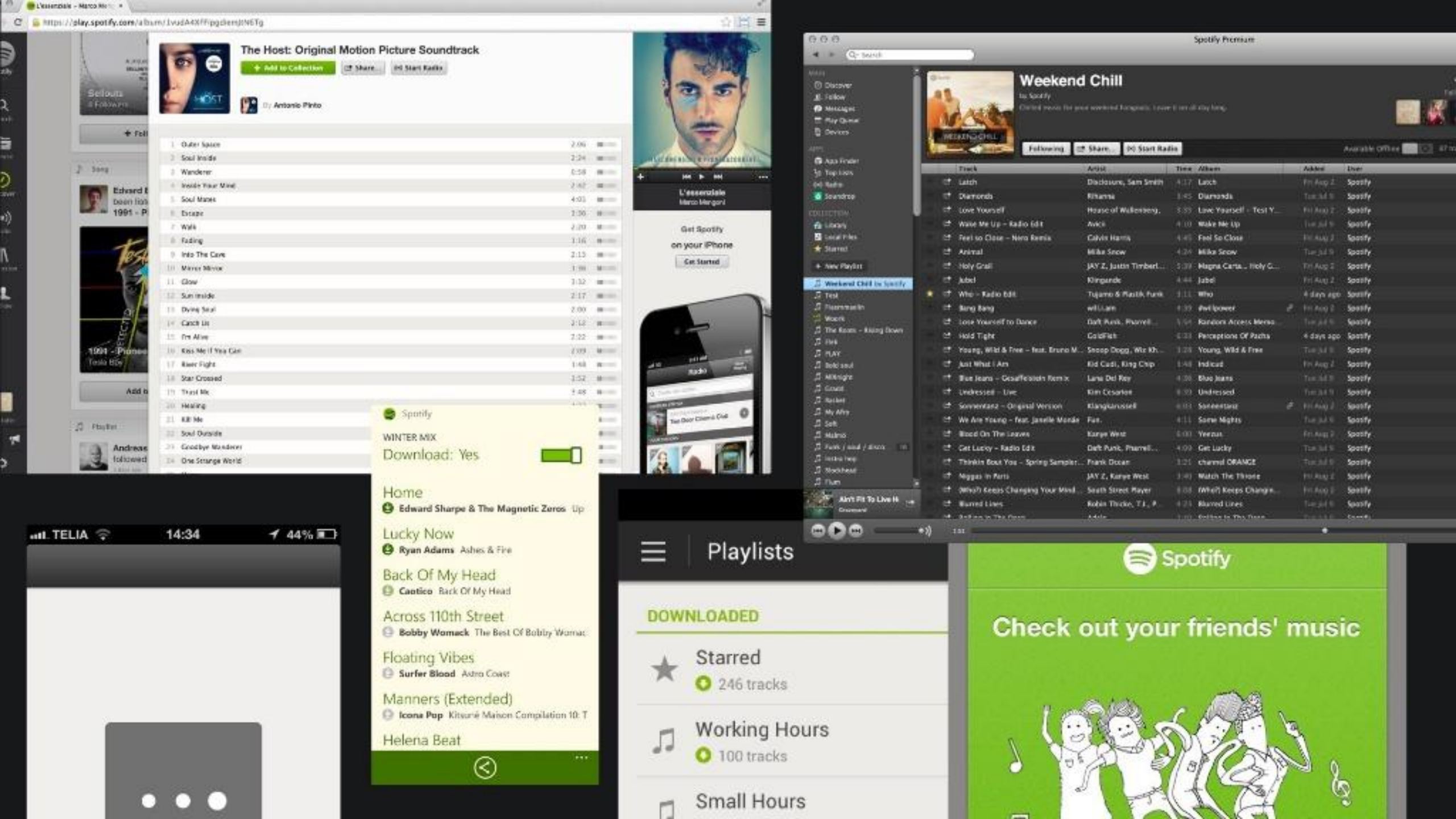
REEN.
MADE FOR DESIGNERS


ASSAN


ASSAN
Assan Campus
Learn Better

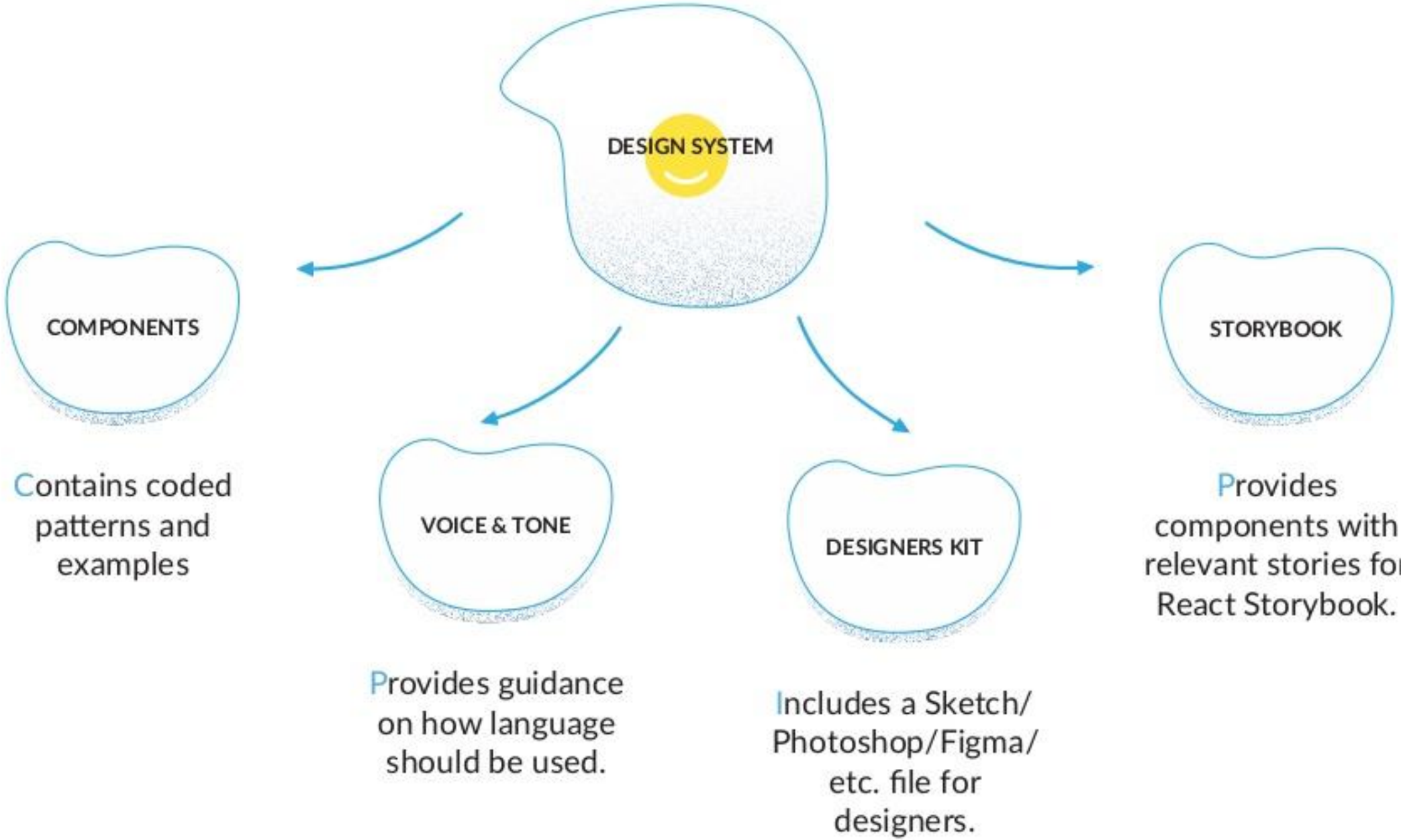
Design system

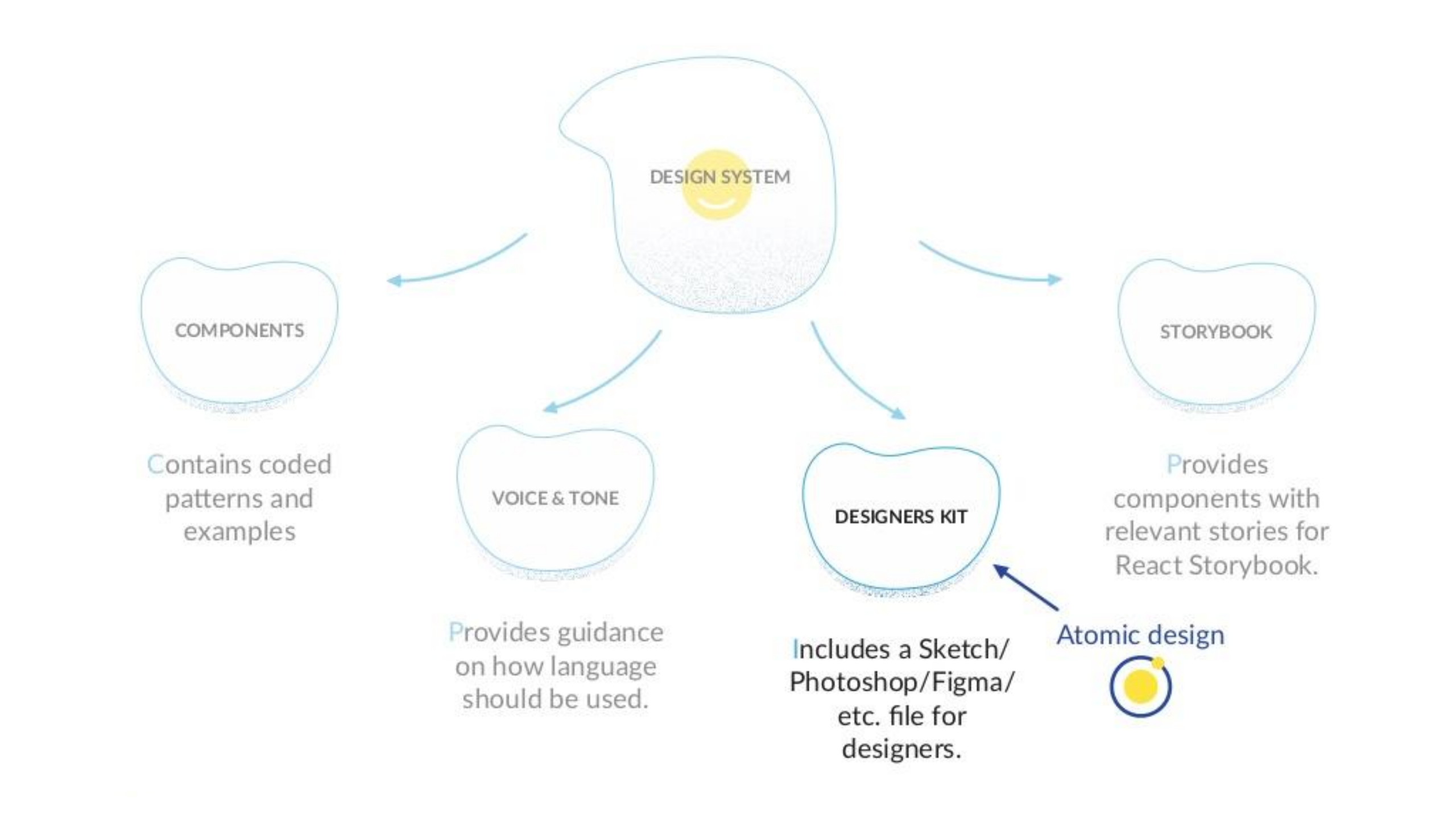



The Host: Original Motion Picture Soundtrack
Add to Collection
Share...
Start Radio
By Antonio Pinto
Get Spotify
on your iPhone
Get Started
Spotify
WINTER MIX
Download: Yes
Home
Edward Sharpe & The Magnetic Zeros Up
Lucky Now
Ryan Adams Ashes & Fire
Back Of My Head
Caotico Back Of My Head
Across 110th Street
Bobby Womack The Best Of Bobby Womac
Floating Vibes
Surfer Blood Astro Coast
Manners (Extended)
Icona Pop Kitsuné Maison Compilation 10: T
Helena Beat
TELIA
14:34
44%
Playlists
DOWNLOADED
Starred
246 tracks
Working Hours
100 tracks
Small Hours
Spotify
Check out your friends' music
Spotify Premium
Weekend Chill
Following
Share...
Start Radio

Browse
OVERVIEW
TOP LISTS
GENRES & MOODS
NEW RELEASES
NEWS
DISCOVER
Good Morning, Monday!
Morning Commute
Your Favorite Coffee
Ready for the Day
Feelin Good
On Wheels To Work
Foster The People
CALVIN HARRIS
BLAME
FEAT. JOHN NEWMAN
SHUFFLE PLAY

What do you think about this redesign?


DESIGN SYSTEM
COMPONENTS
Contains coded patterns and examples
VOICE & TONE
Provides guidance on how language should be used.
DESIGNERS KIT
Includes a Sketch/ Photoshop/Figma/ etc. file for designers.
STORYBOOK
Provides components with relevant stories for React Storybook.


DESIGN SYSTEM
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Contains coded patterns and examples
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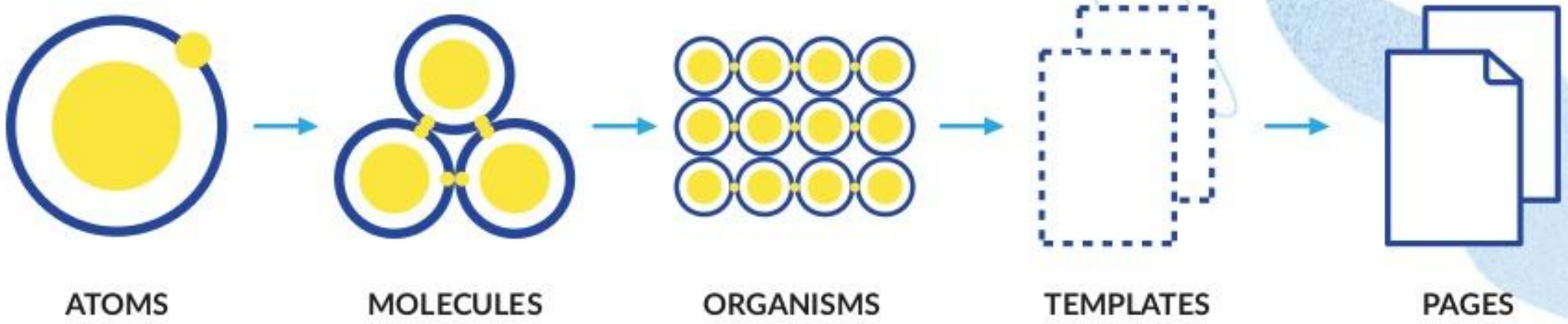
DESIGNERS KIT
Includes a Sketch/ Photoshop/Figma/ etc. file for designers.
Atomic design
STORYBOOK
Provides components with relevant stories for React Storybook.

Atomic design

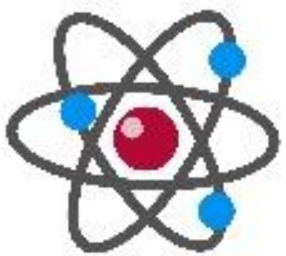
"Atomic design is a methodology composed of five distinct stages working together to create interface design systems in a more deliberate and hierarchical manner."

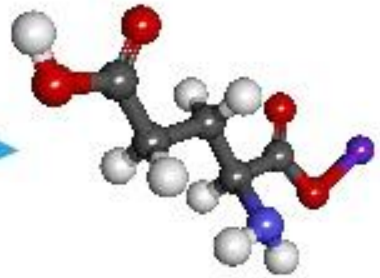
- Brad Frost -

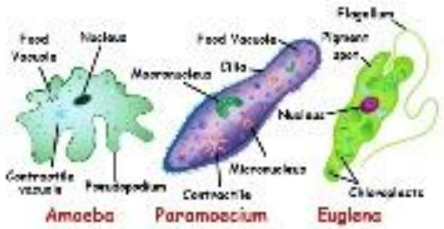
The five stages of atomic design



Taking cues from chemistry





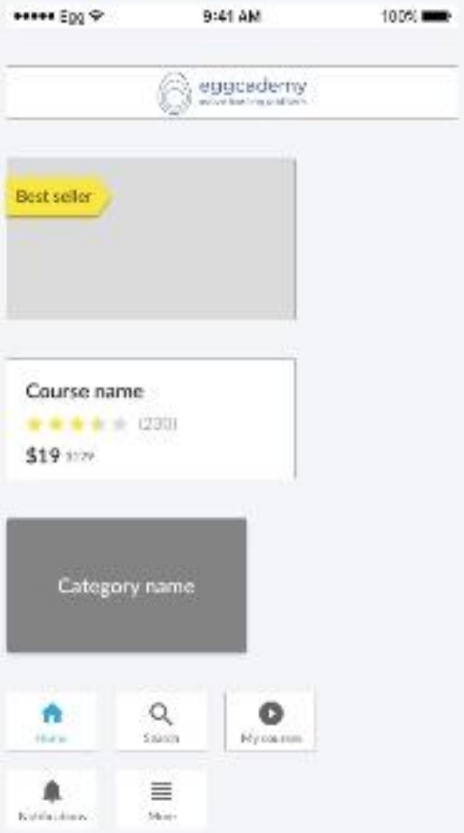


ATOMS MOLECULES ORGANISMS TEMPLATES PAGES

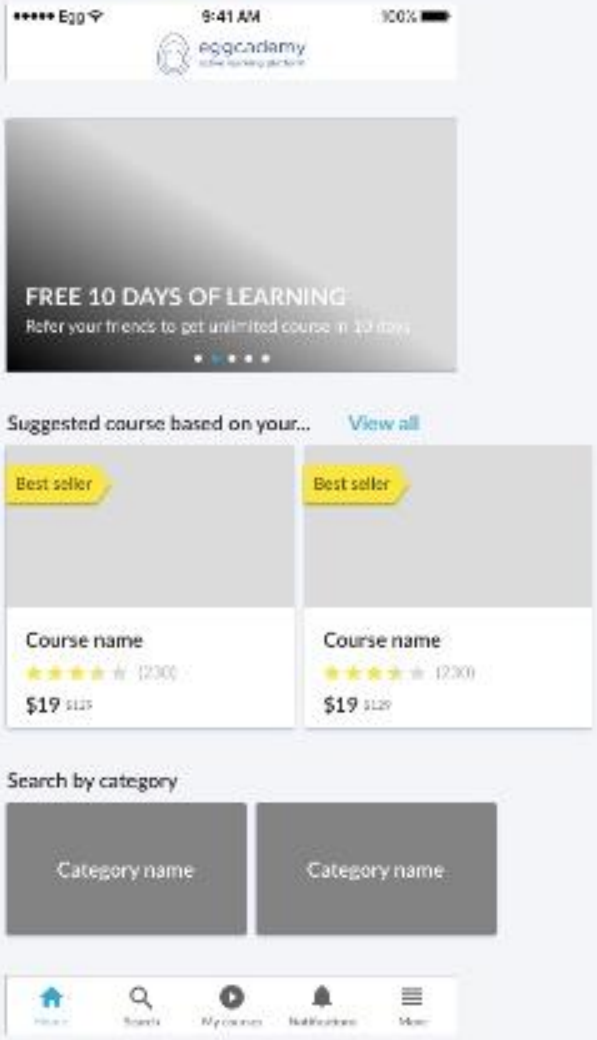
From style guide to final UI

ATOMS

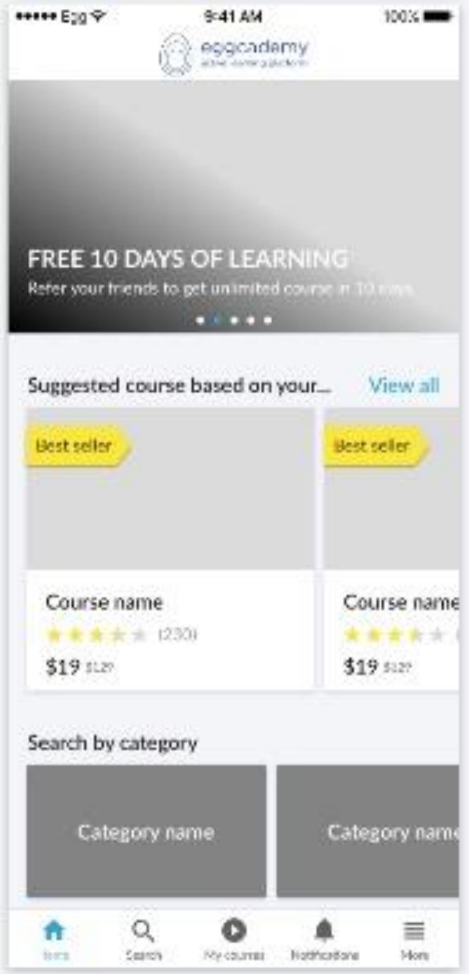
MOLECULES



ORGANISMS



TEMPLATE

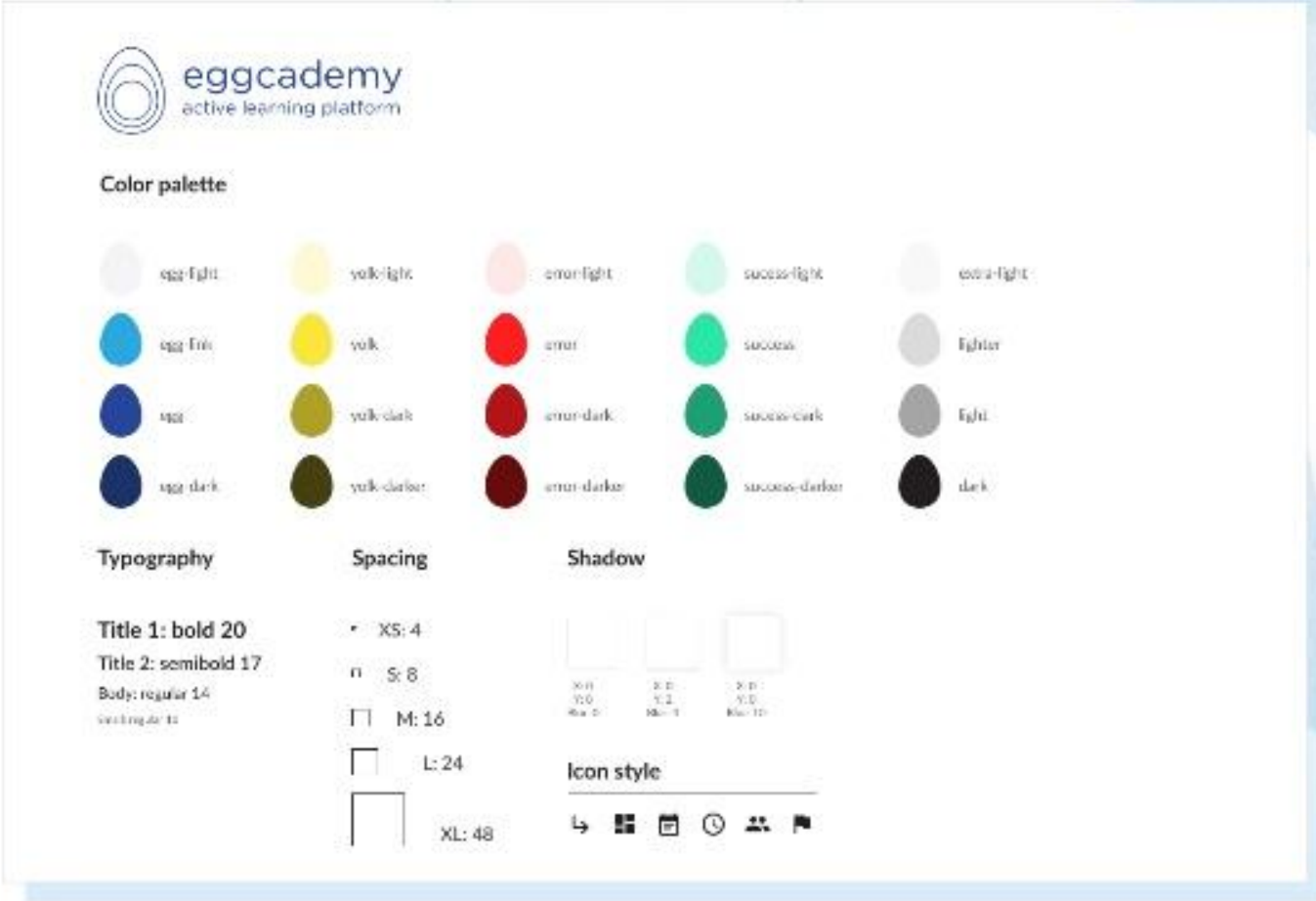


PAGE

ATOMS

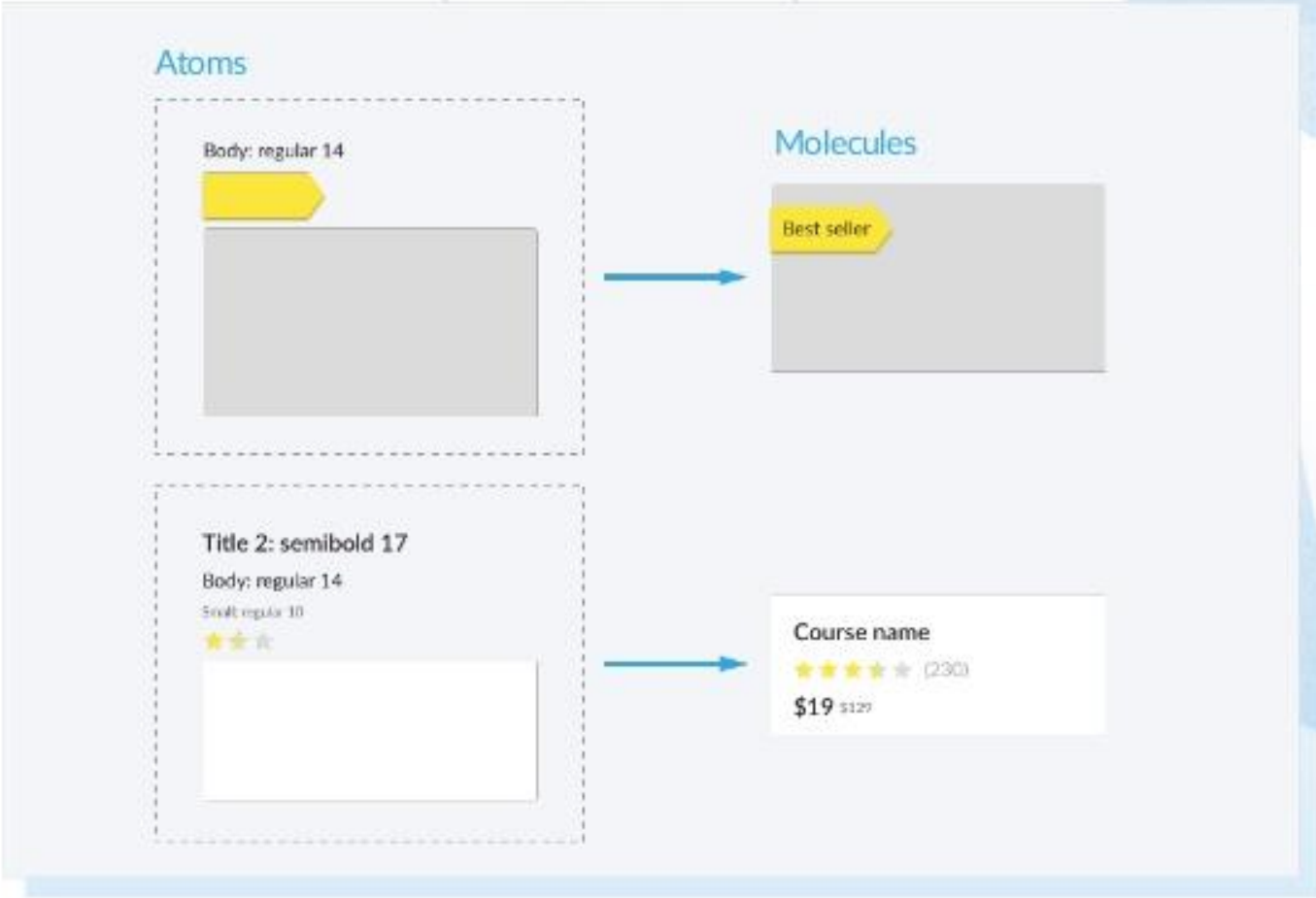
The foundational building blocks that comprise all our user interfaces

- LOGO
- COLOR PALETTE
- TEXT STYLES
- ICONS
- BUTTON
- ...



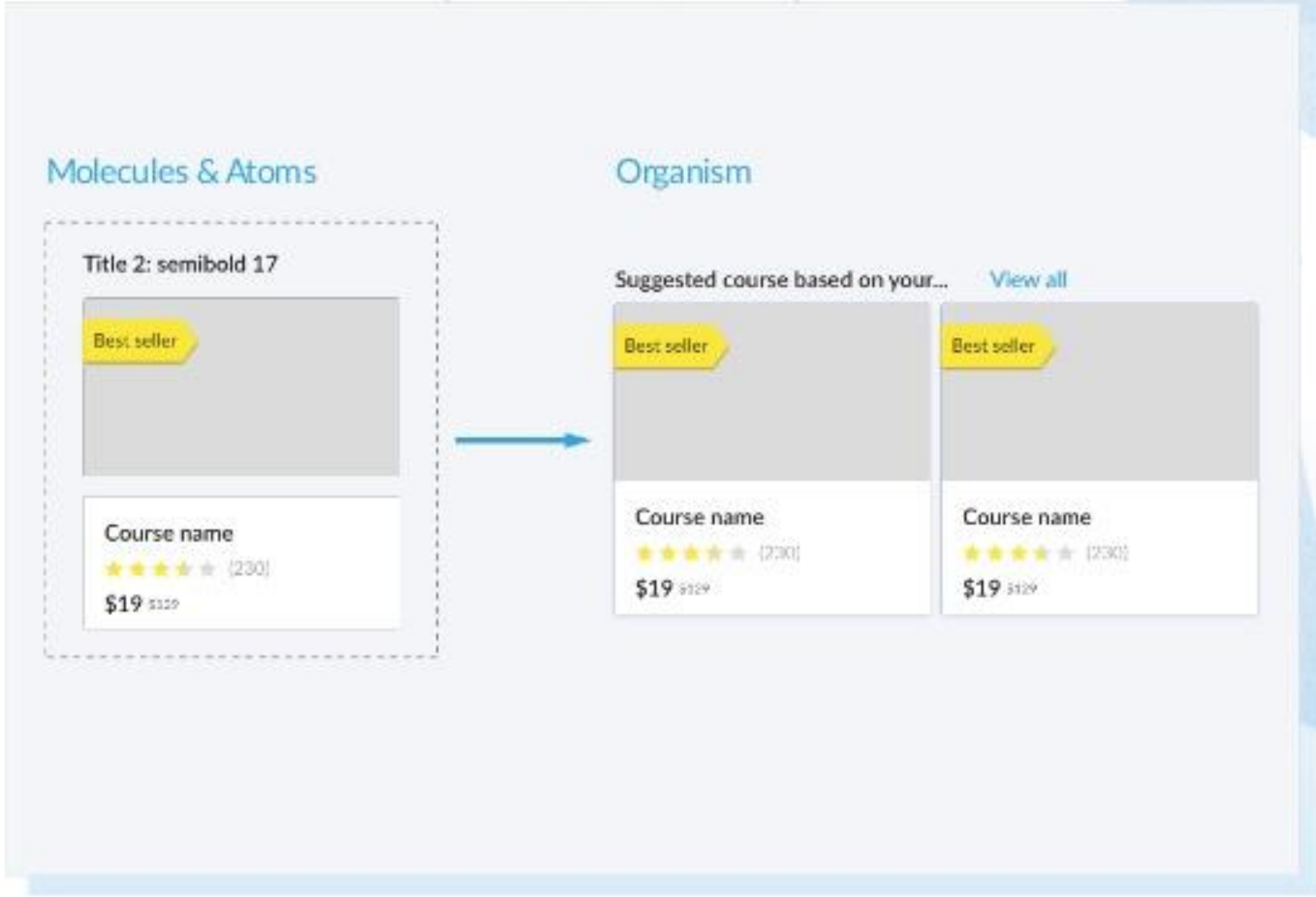
MOLECULES

Relatively simple groups of UI elements functioning together as a unit



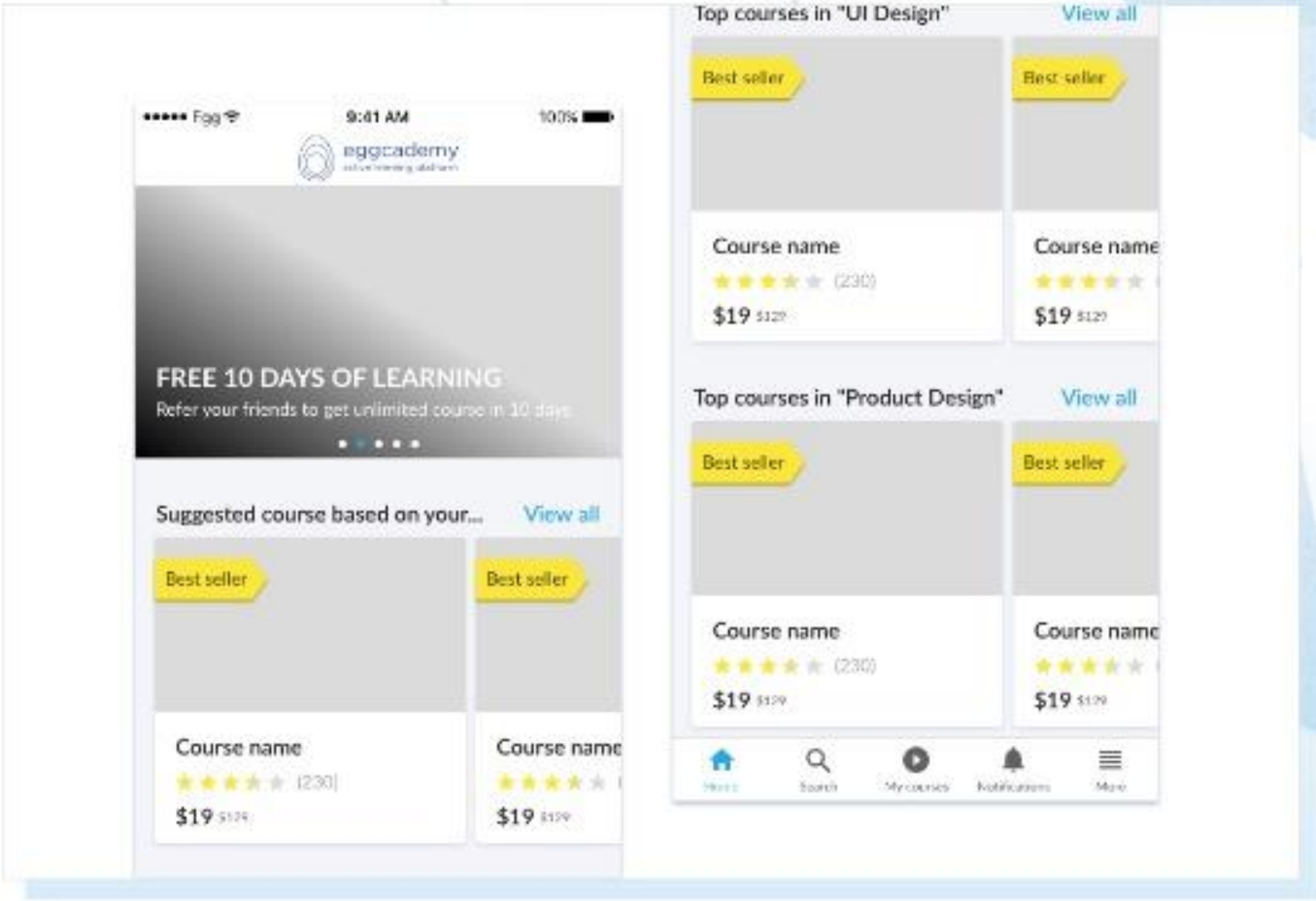
ORGANISMS

Relatively complex UI components composed of groups of molecules and/or atoms and/or other organisms



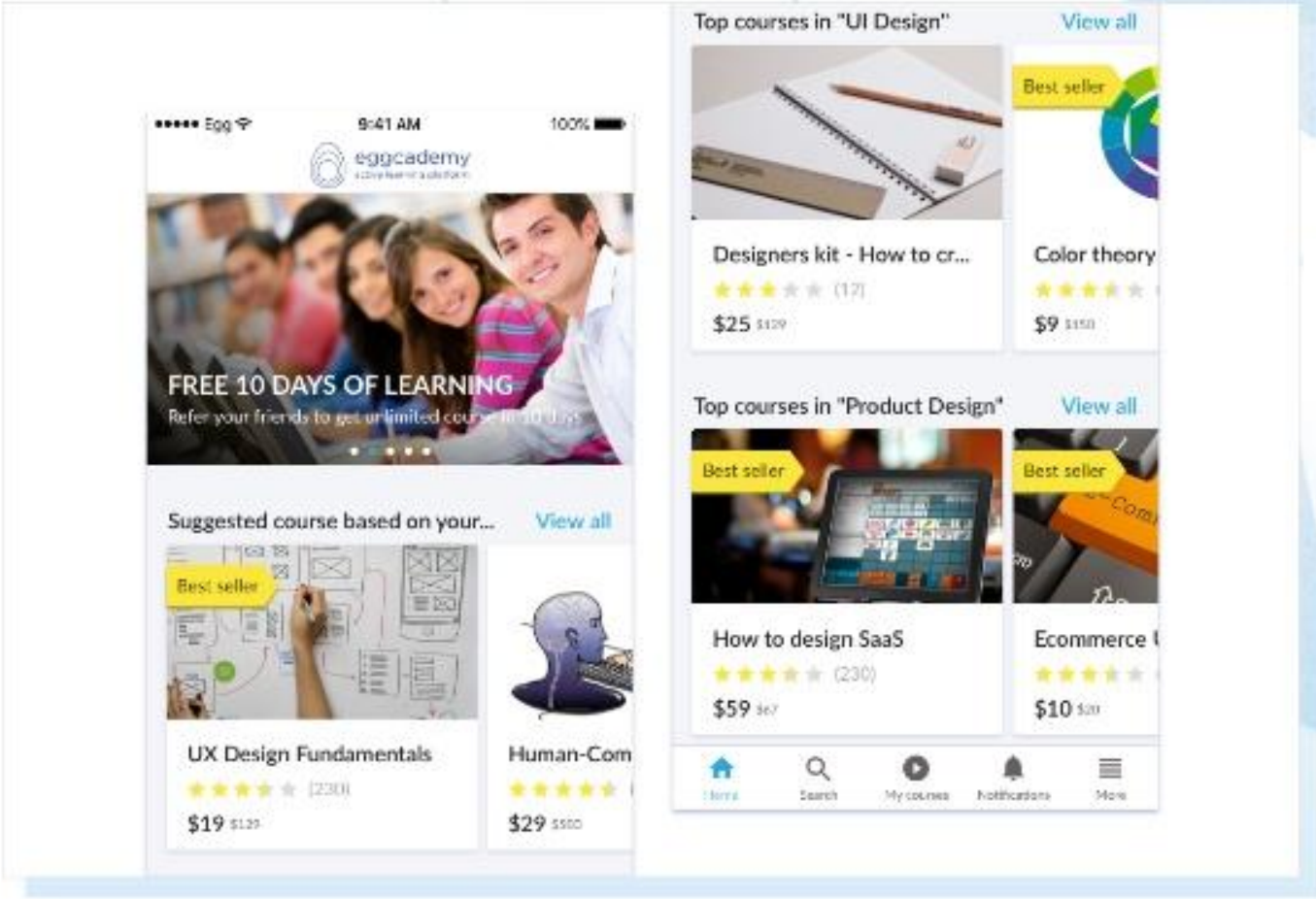
TEMPLATES

Page-level objects that place components into a layout and articulate the design's underlying content structure



PAGES

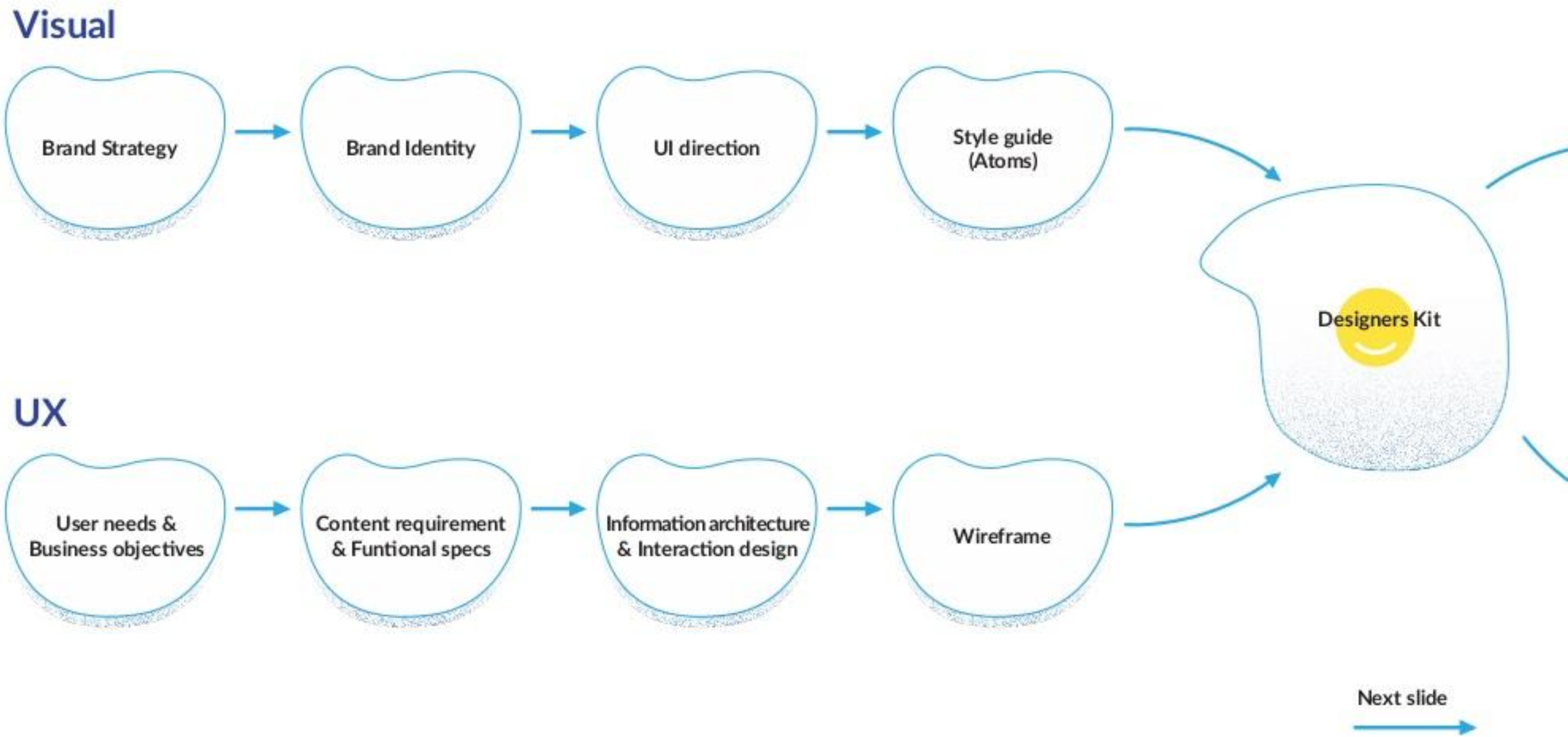
Specific instances of templates that show what a UI looks like with real representative content in place

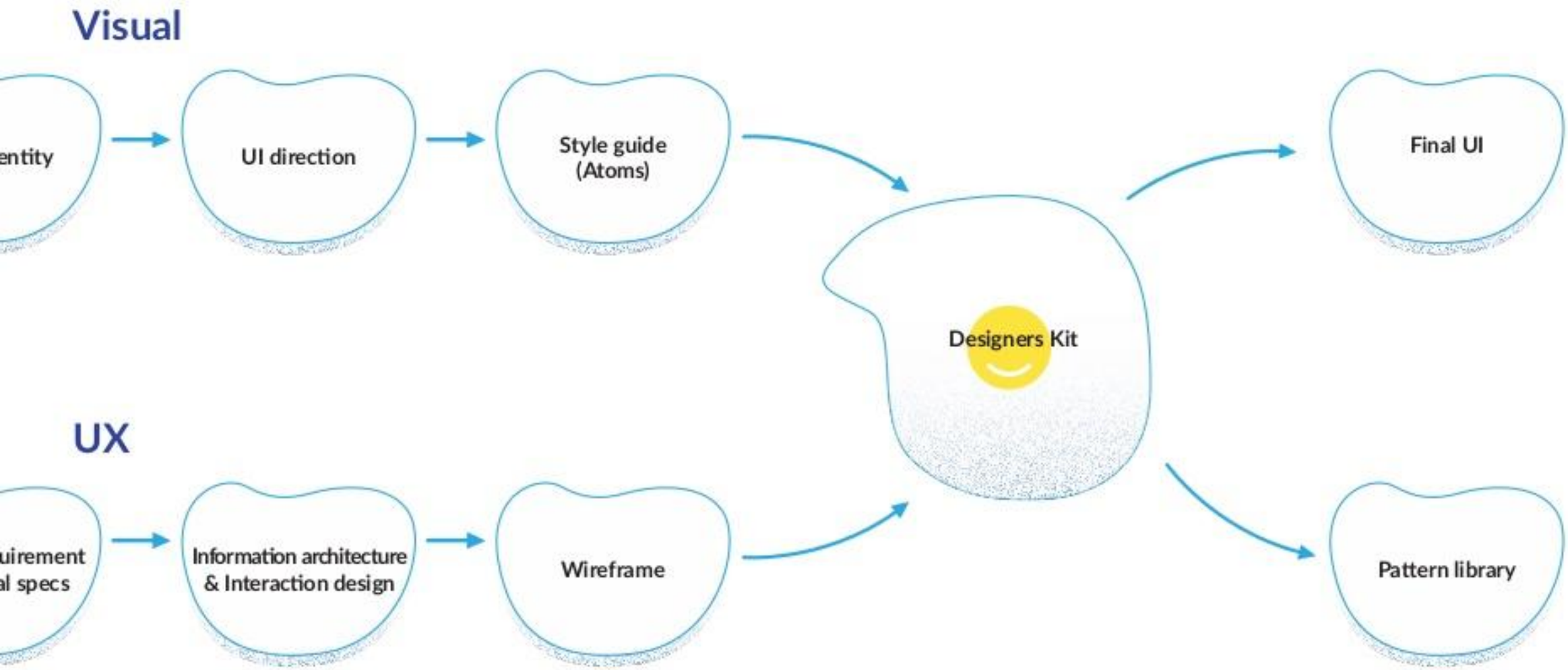


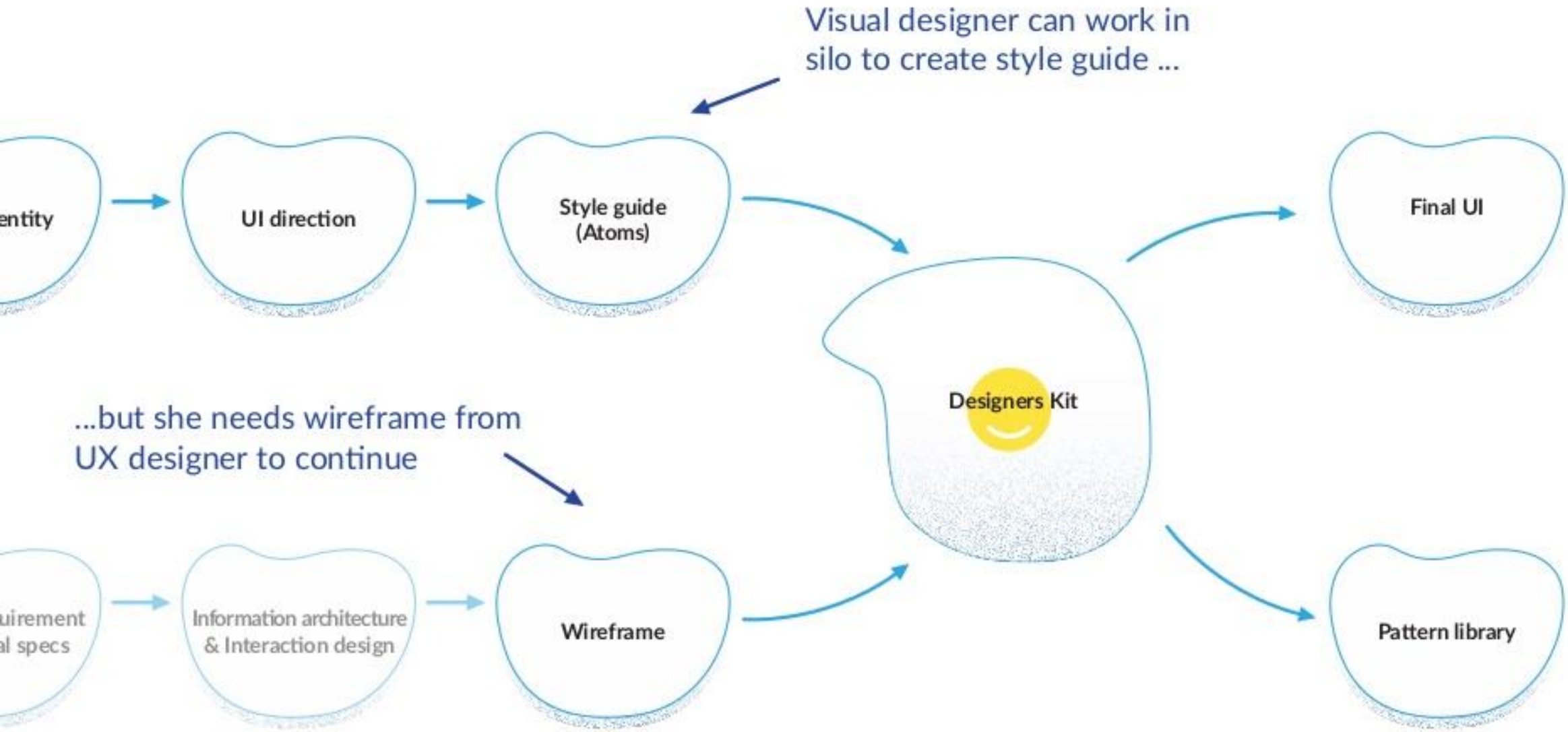
How to create Designers kit

Who create Designers kit?

- TEAM EFFORT
- KEY PERSONS: VISUAL DESIGNER & UX DESIGNER


Visual
Brand Strategy
Brand Identity
UI direction
Style guide
(Atoms)
Designers Kit
UX
User needs &
Business objectives
Content requirement
& Funtional specs
Information architecture
& Interaction design
Wireframe
Next slide


Visual
entity
UI direction
Style guide
(Atoms)
Final UI
Designers Kit
UX
uirement
al specs
Information architecture
& Interaction design
Wireframe
Pattern library


Visual designer can work in silo to create style guide ...
entity
UI direction
Style guide (Atoms)
Final UI
Designers Kit
...but she needs wireframe from UX designer to continue
uirement al specs
Information architecture & Interaction design
Wireframe
Pattern library

STEP 1

Gather existing brand guidelines

STEP 2

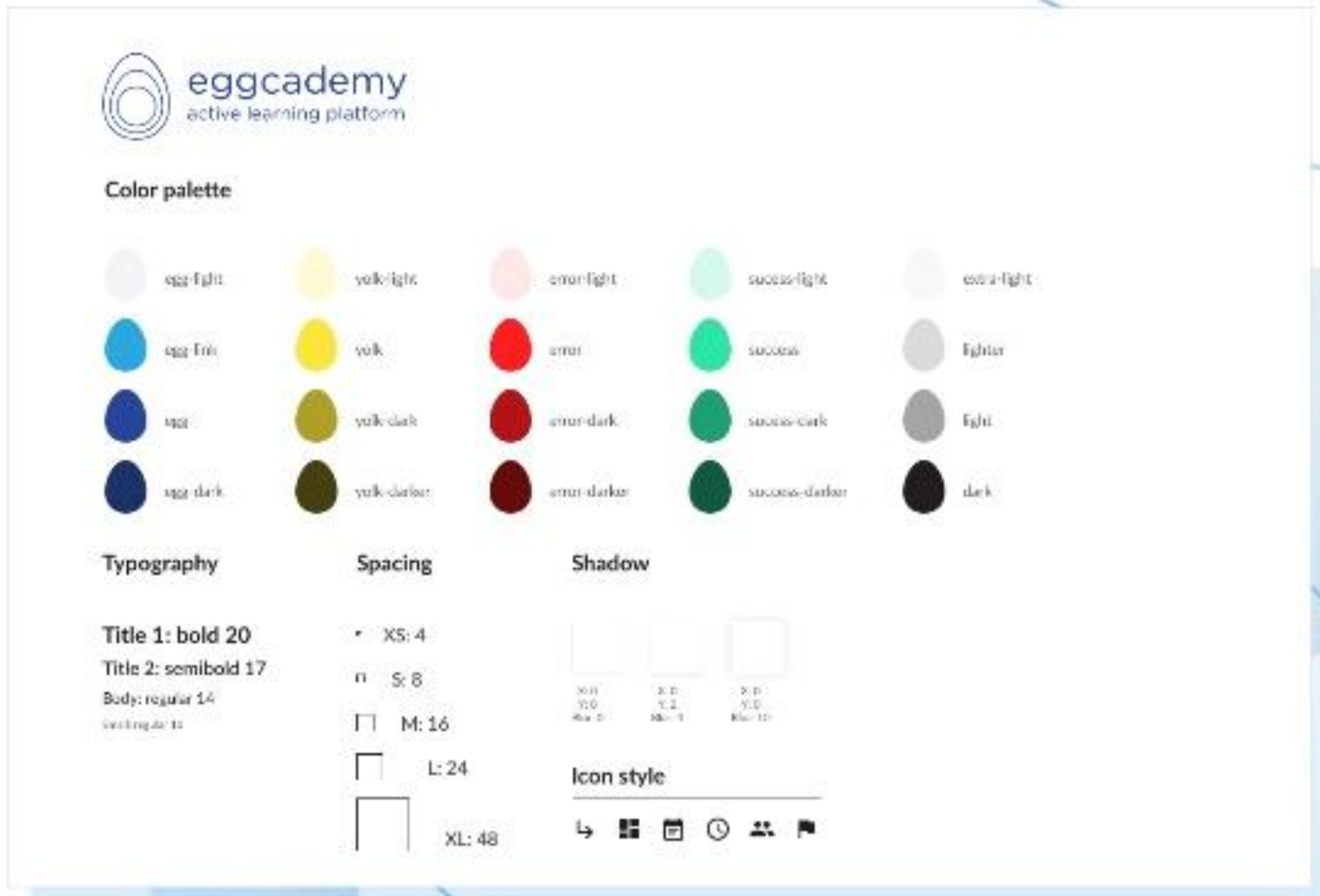
Develop several UI directions, focus on visual aesthetics

- COLOR
- TYPOGRAPHY
- FLAT/ MATERIAL...
- TEXTURE
- ...

Choose one concept then move to next step

STEP 3

Apply the chosen visual style to create UI style guide (Atoms)



eggcademy
active learning platform

Color palette

egg-light	yolk-light	error-light	sucess-light	extra-light
egg-link	yolk	error	success	lighter
egg	yolk-dark	error-dark	success-dark	light
egg-dark	yolk-darker	error-darker	success-darker	dark

Typography

Title 1: bold 20

Title 2: semibold 17

Body: regular 14

Small: regular 11

Spacing

- XS: 4
- S: 8
- M: 16
- L: 24
- XL: 48

Shadow

X: 0 Y: 0 Blur: 0

X: 0 Y: 2 Blur: 4

X: 0 Y: 0 Blur: 10

Icon style

Basic UI elements

Primary

NORMAL

PRESSED

DISABLED

Secondary

NORMAL

PRESSED

DISABLED

Small button

PRIMARY SECONDARY

Messages

Success

Error

Warning

Information

Text field

Label

Empty Place holder

Label

Selected Place holder

Check box

- Not selected
- Selected
- Inactive
- Inactive-selected

Radio button

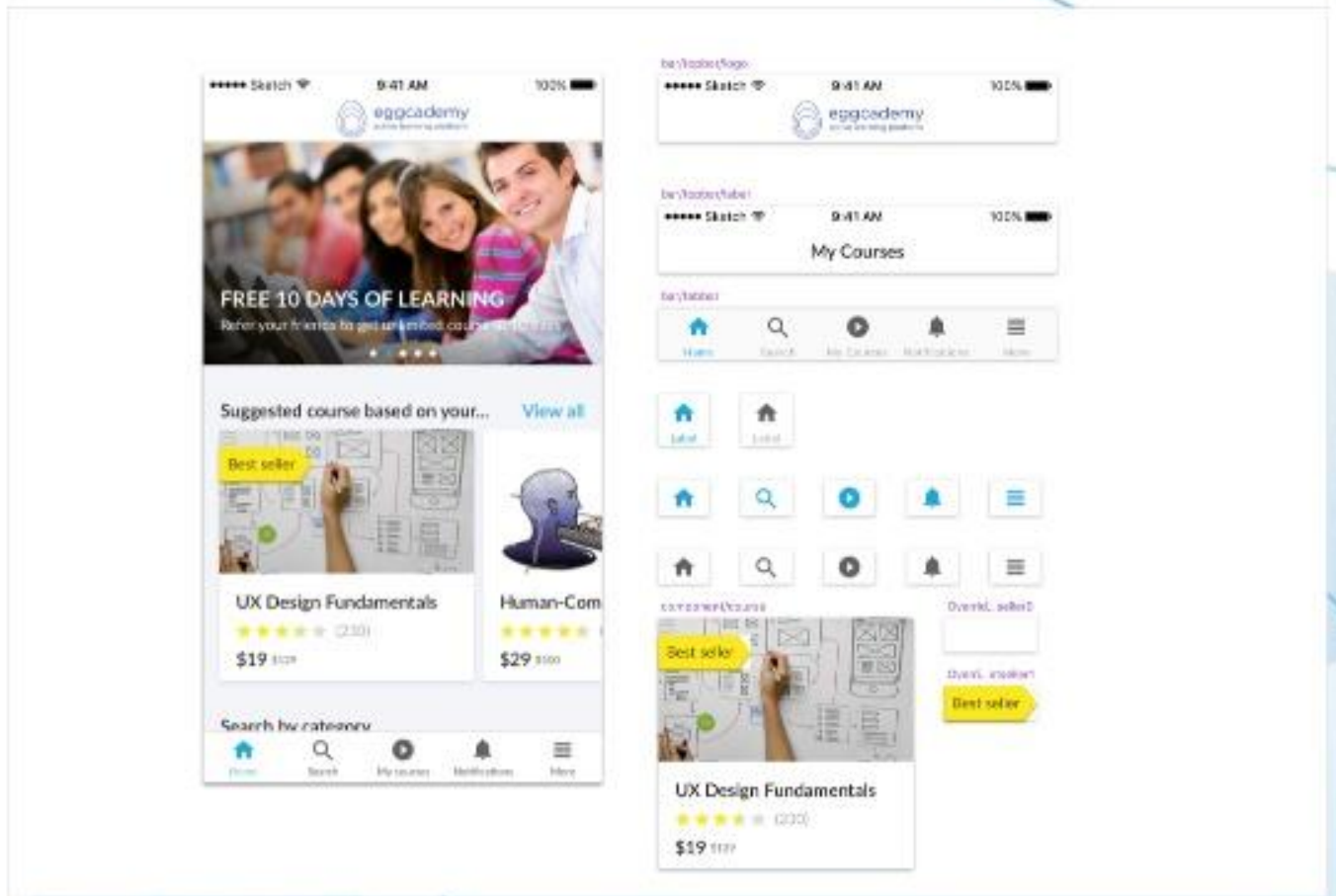
- Not selected
- Selected
- Inactive
- Inactive-selected

Switcher

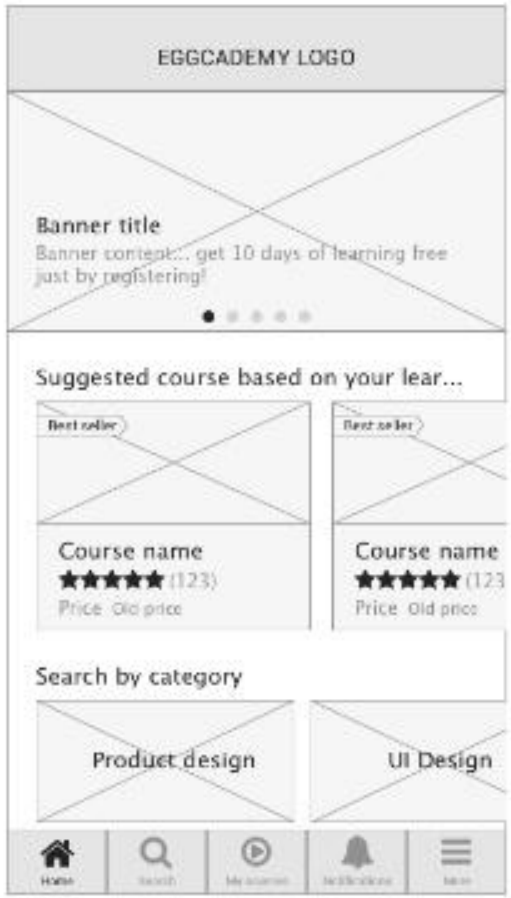
- Off
- On
- Disabled-off
- Disabled-on

STEP 4

Apply the UI style guide to established wireframes to create final UI & pattern library

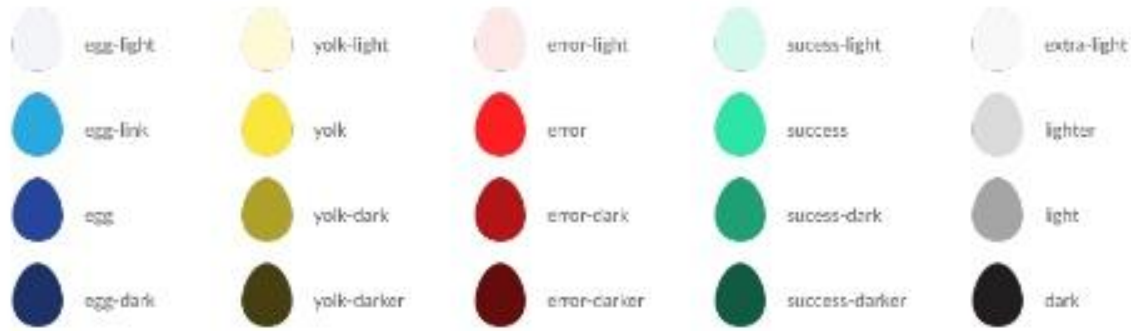


Wireframe



Style guide

Color palette



Typography

Title 1: bold 20

Title 2: semibold 17

Body: regular 14

Spacing

XS: 4

S: 8

M: 16

L: 24

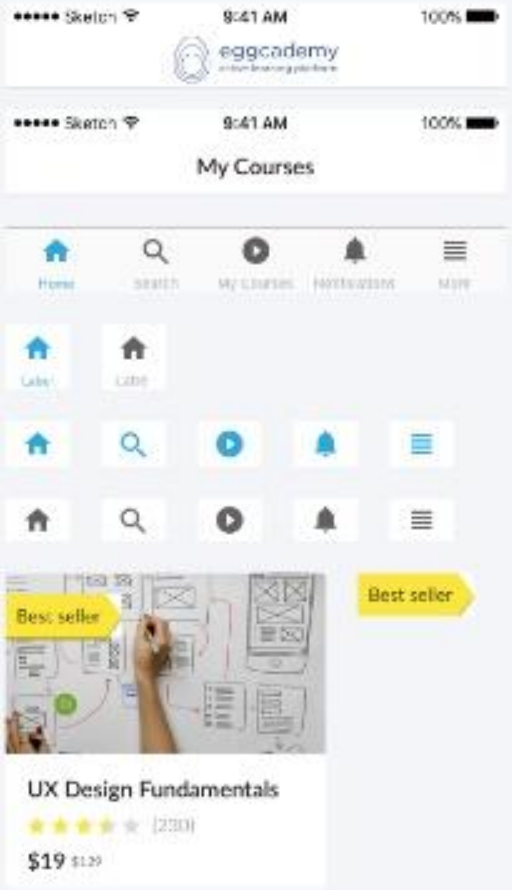
XL: 48

Shadow

Icon style

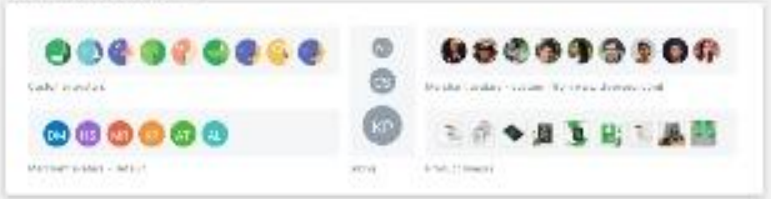
Final UI

Pattern library



Colors

Avatars and images

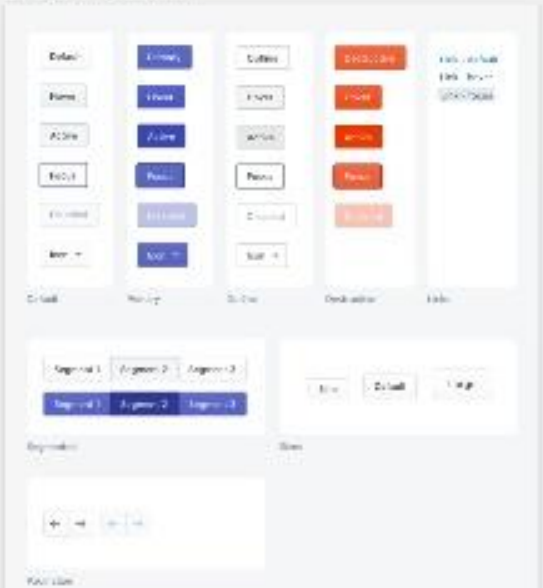


Keyboard Shortcuts

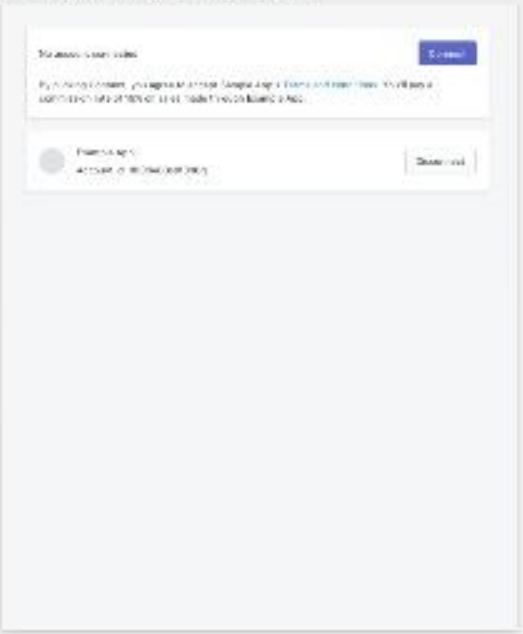
Table...contents

Titles and text

Actions - Button



Actions - Account connection



Feedback Indicators - Banners

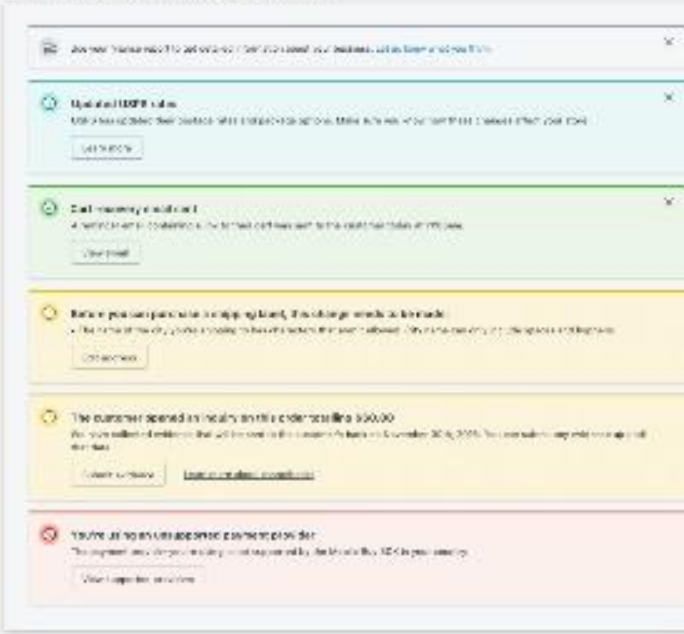


Table of contents

Titles and text

Actions - Button

Actions - Account connection

Feedback Indicators - Banners

Pro & Cons of Design system

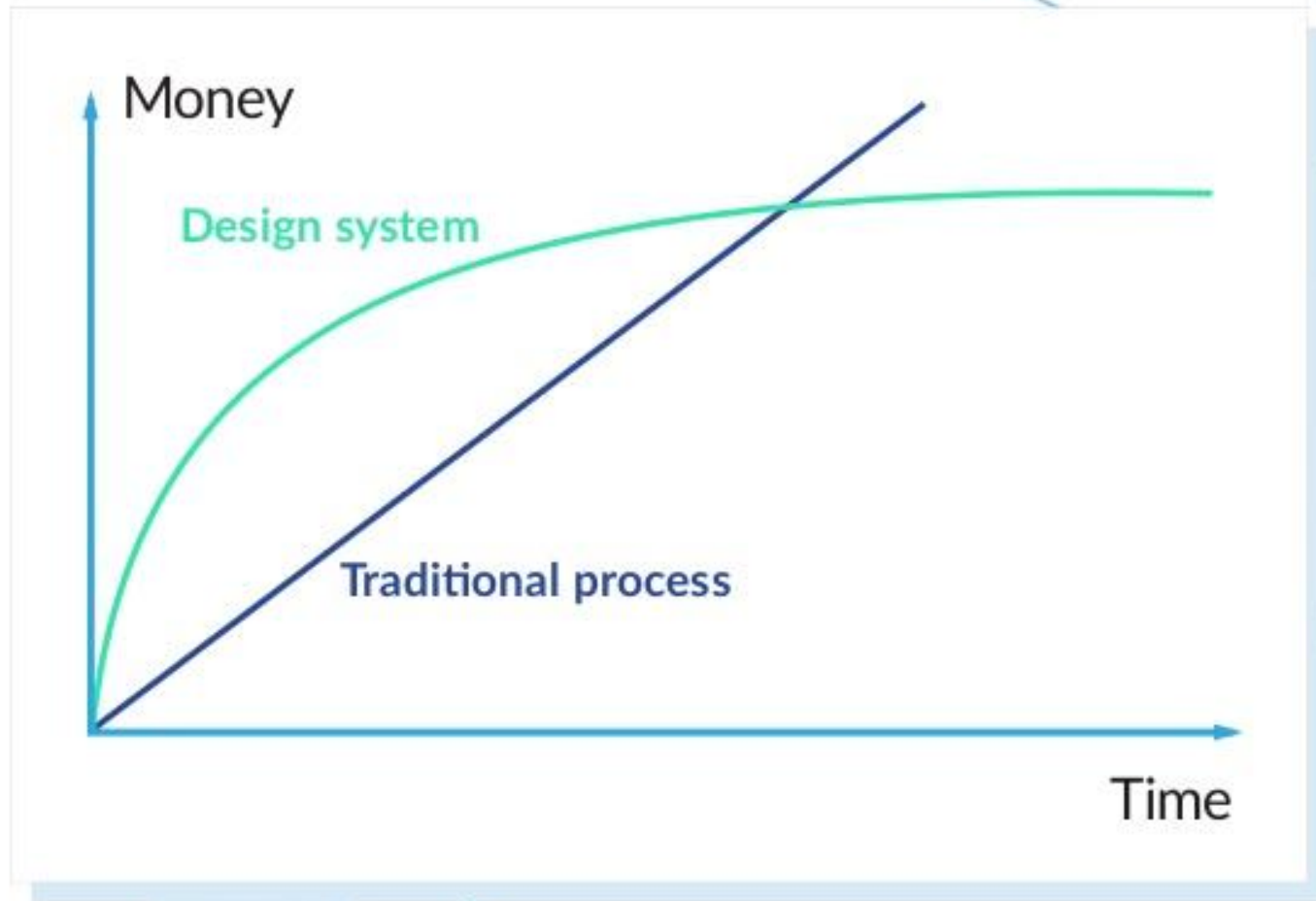
Pros

- CONSISTENCY
- RESUABLE
- EASY TO MAINTAIN
- EASY TO SCALE/ UPDATE
- EASY TO HANDOFF/ TRAINING,...

Cons

- TAKE TIME & MONEY TO MAKE THE SYSTEM
- NOT SUITABLE FOR SOME TYPES OF PRODUCTS

Design system takes time & money to create in early process, but it will shine later



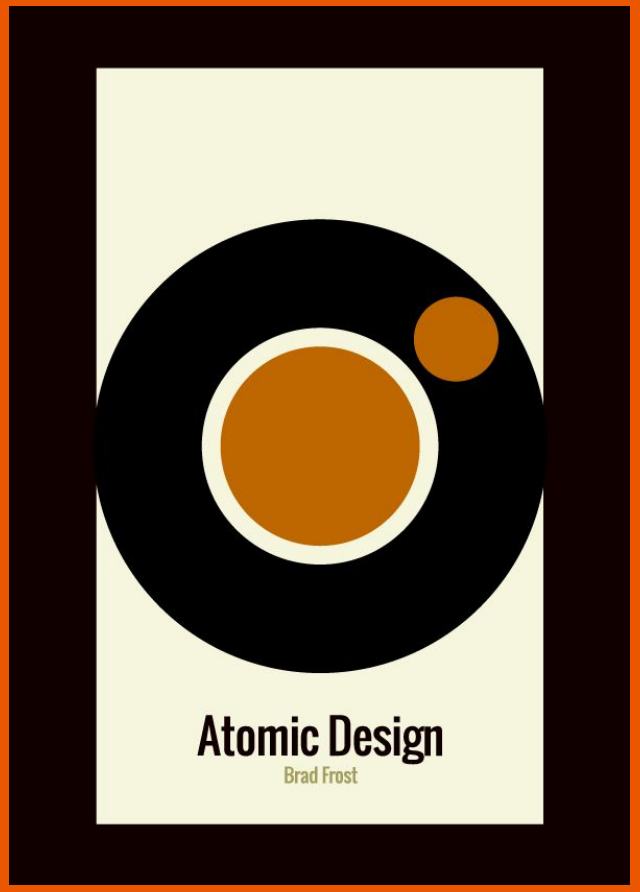
When should we avoid using Design System?

Use when

- DESIGN LARGE PRODUCTS
- DESIGN MULTI-PLATFORM PRODUCTS
- DESIGN PRODUCTS THAT HAVE MANY UPDATES IN THE FUTURE
- DESIGN PRODUCTS THAT SCALES
- TEAM HAS MANY DESIGNERS INVOLVE IN ONE PRODUCT

Not use when

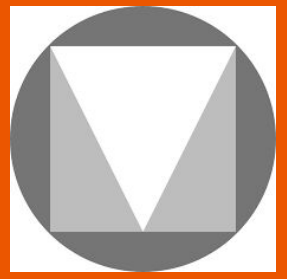
- DESIGN THINGS THAT TOO SMALL
- DESIGN ONE-TIME-USE THINGS
- TIGHT BUDGET
- TIGHT TIMELINE



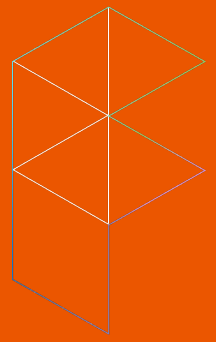
GUIDES

Principles of User Interface Design

Design Systems



Google Material



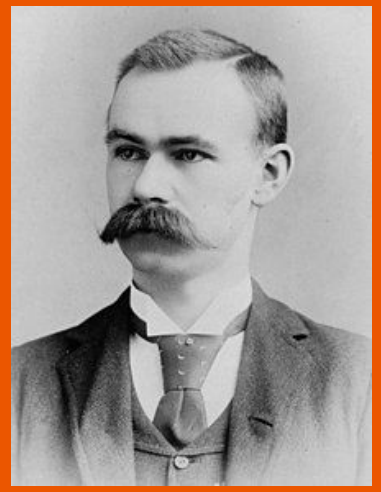
Microsoft Fluent

Apple Human Interface Guidelines

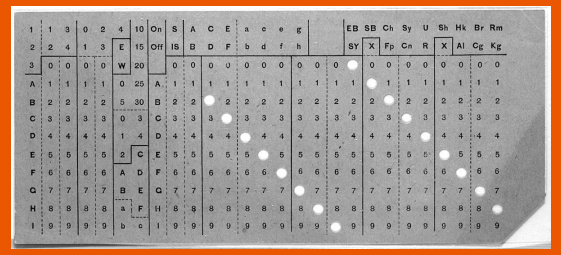
User Experience Design

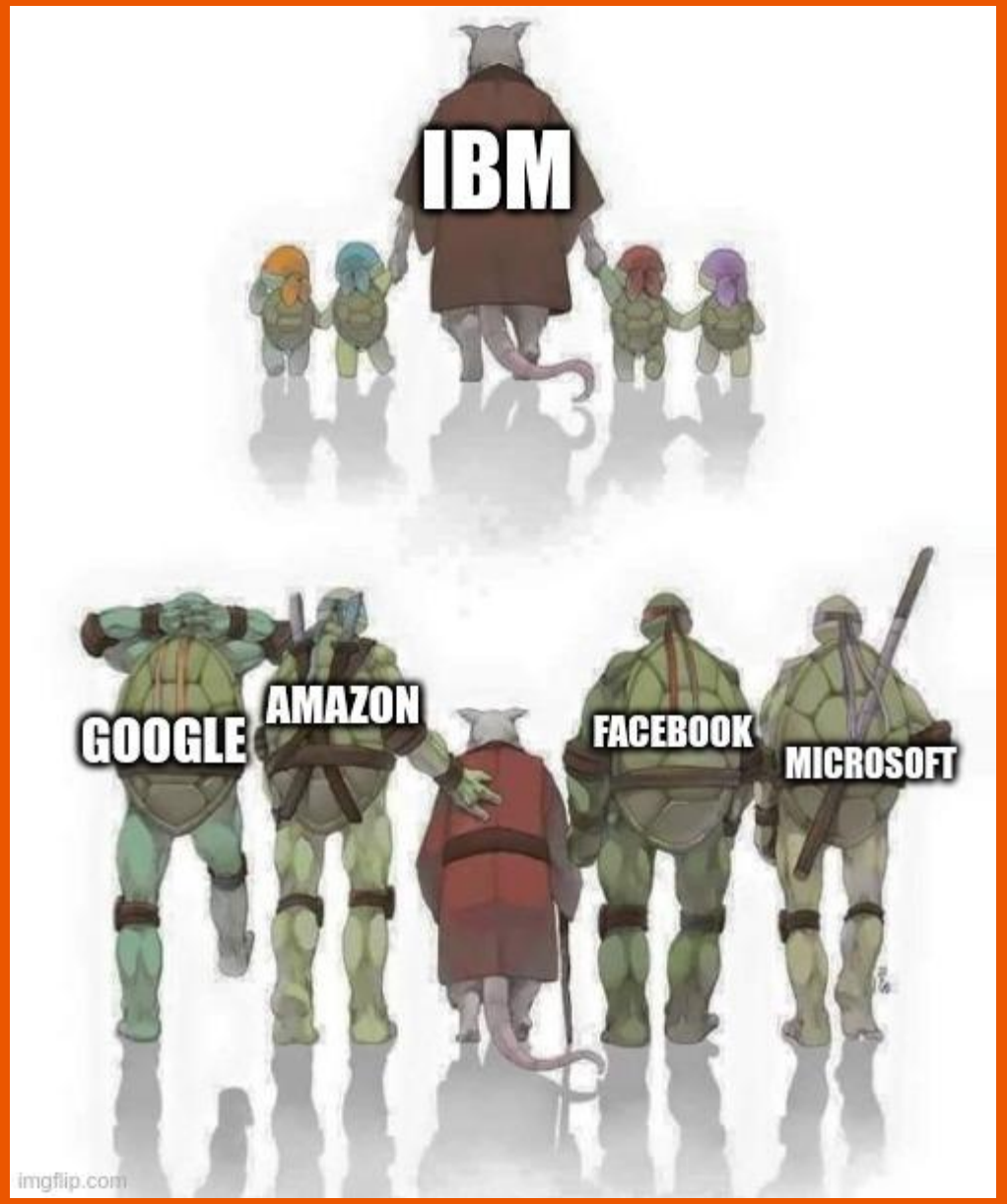
Facebook

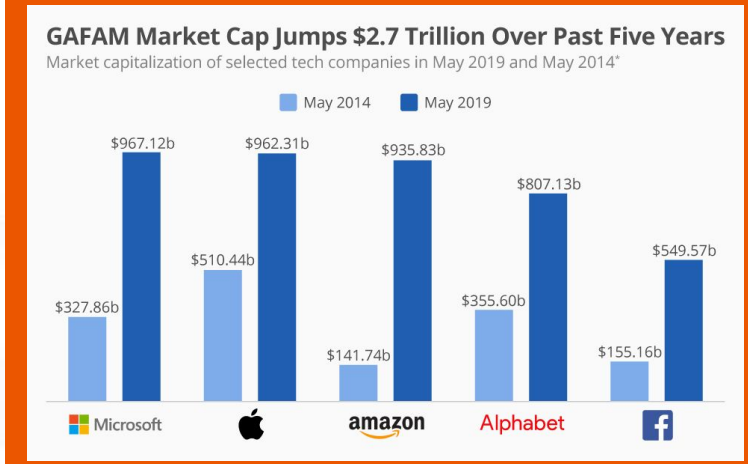
IBM



Herman Hollerith
(1860 - 1929)





Modern Cloud Giants

Google · **A**mazon · **FA**cebook · **M**icrosoft