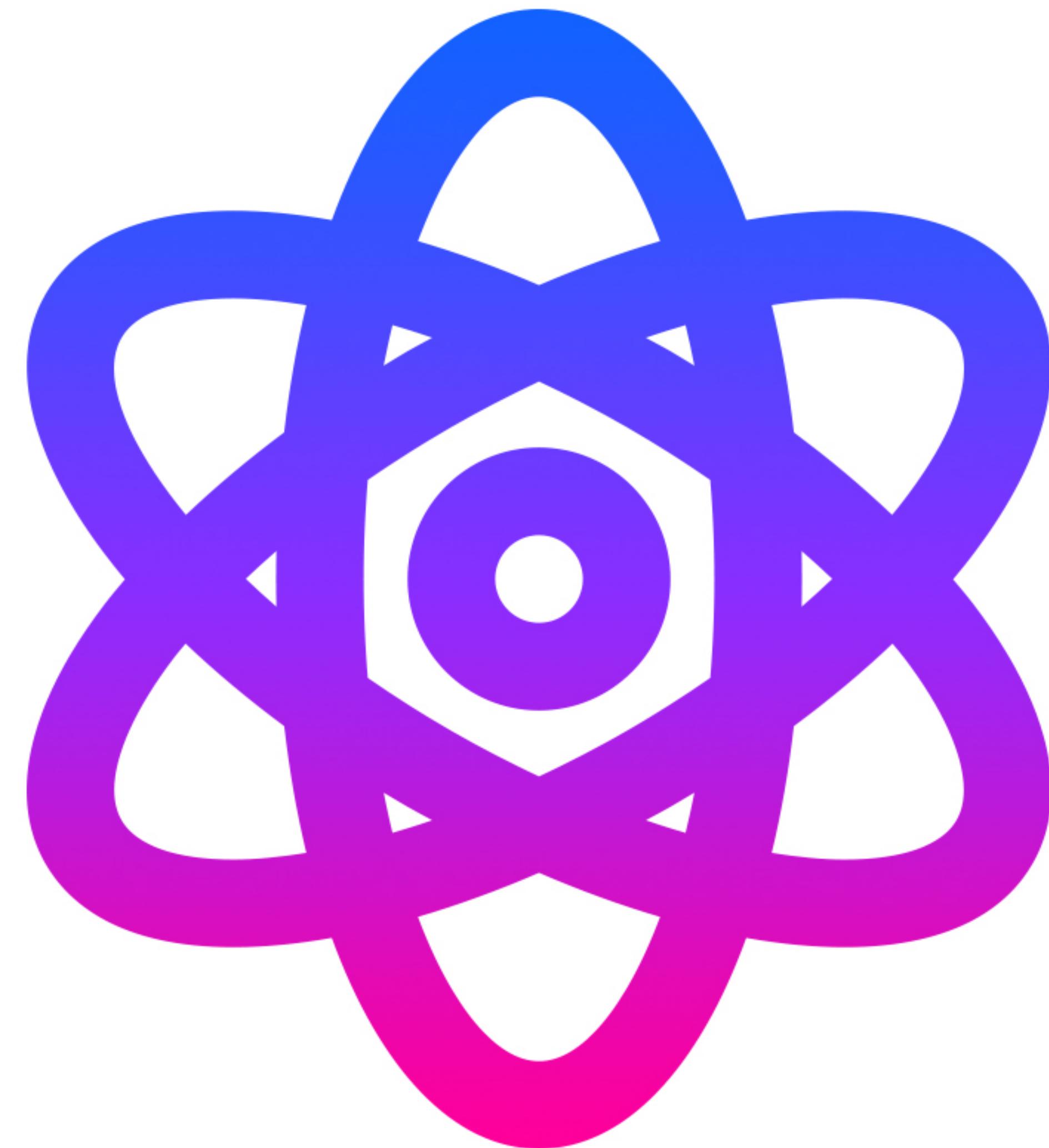

**DEFINING
UI PATTERNS**



**WITH ATOMIC
DESIGN**

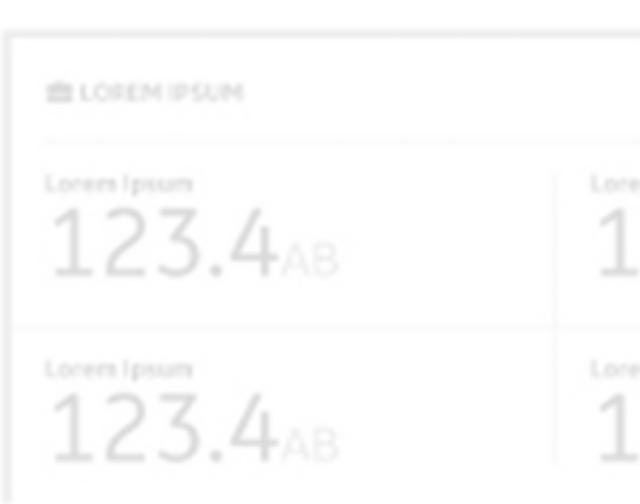
TRI KURNIAWAN

Founder Metamorpix, Co-Founder .INDUX,
Visual Designer, UX Enthusiast



Close the gap between
knowledge and action.





Cards

Platform Components



Cards for APM

Product Components



Context Browser

Platform Components



Data Analysis Tag Toolbox

Product Components

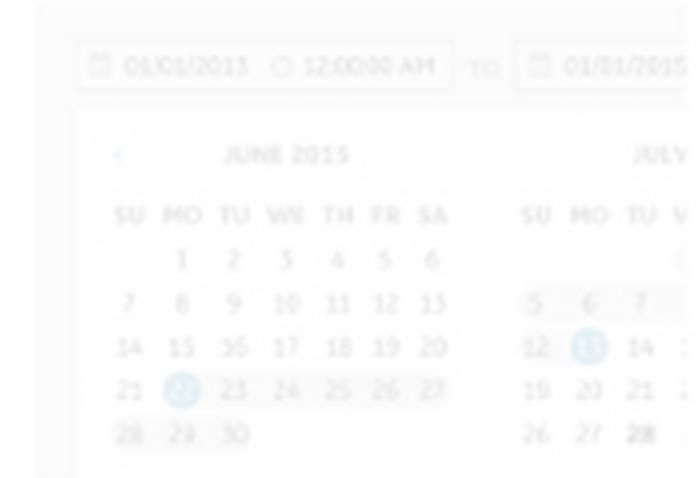
Selected (S)	Last Occurrence	Asset Path	P
	2014-02-17, 19:33:51	_AHR1/HSG/	
	2014-02-18, 19:33:51	_AHR1/HSG/	
<input checked="" type="checkbox"/>	2014-02-19, 19:33:51	_AHR1/HSG/	
	2014-02-20, 19:33:51	_AHR1/HSG/	
	2014-02-21, 19:33:51	_AHR1/HSG/	
	2014-02-22, 19:33:51	_AHR1/HSG/	
	2014-02-23, 19:33:51	_AHR1/HSG/	
	2014-02-26, 19:33:51	_AHR1/HSG/	

Data Table

Platform Components

Forms

Platform Components



Range Picker / Range Picker with Time

Platform Components



Search

Product Components



Side Navigation

Platform Components



Simple Bar Chart

Platform Components



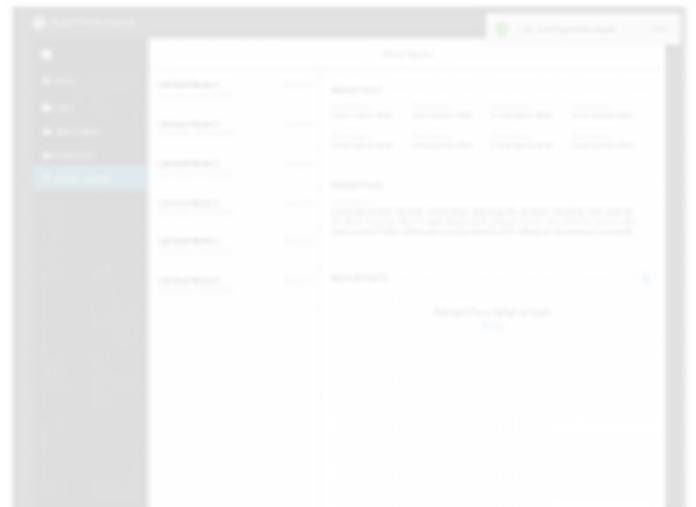
Simple Line Chart

Platform Components



Slider

Platform Components



User Action Results

Messages

Product Components



View Header

Product Components



Actionable Text

Product Basics



Alert Icons

Platform Basics



Alert Labels

Platform Basics



Buttons

Platform Basics

Actionable Text

UI PATTERNS

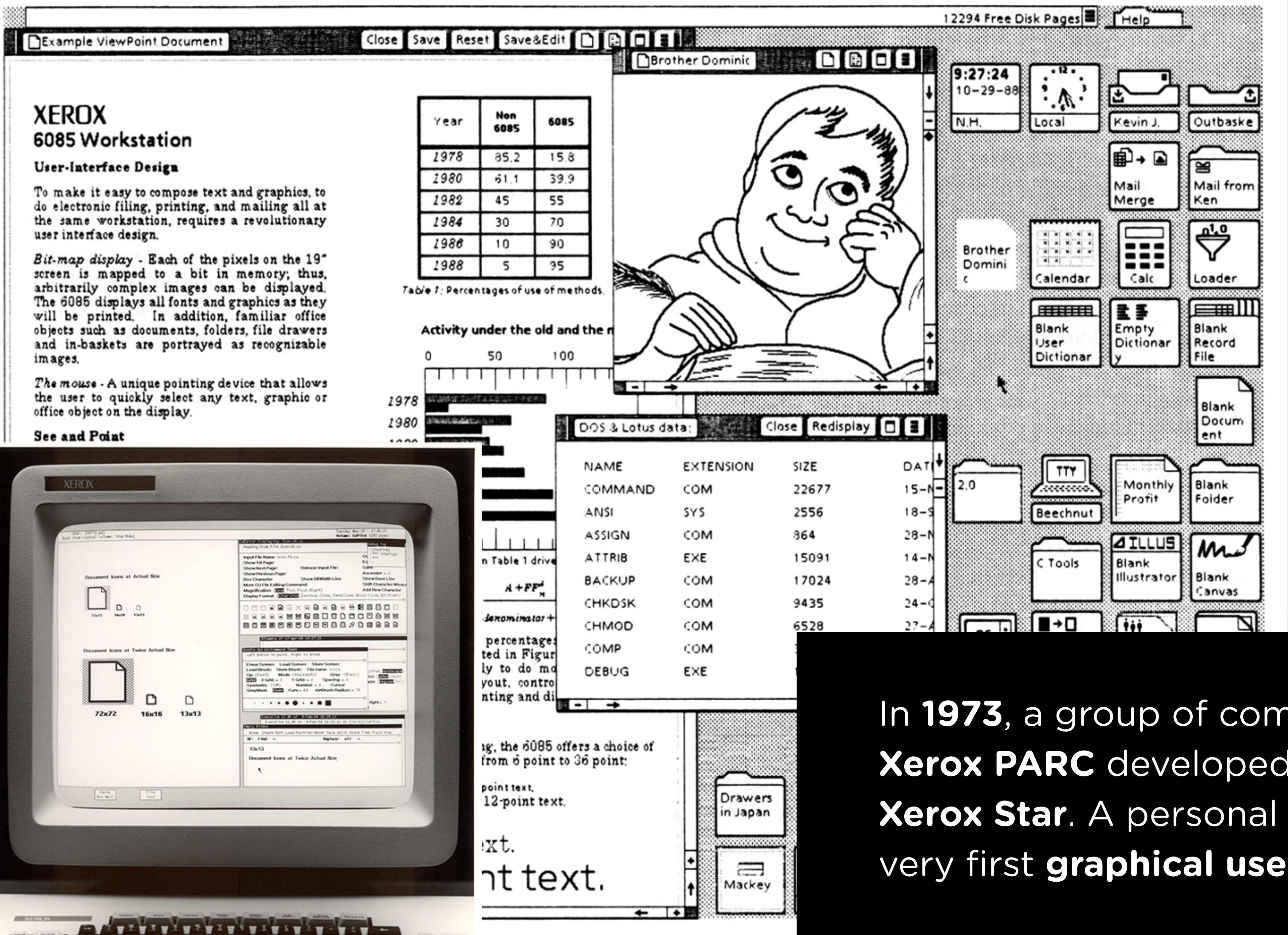
UI design systems that is general reusable solution to a commonly occurring problem within a given context in software design, website or mobile application, digital product, and others...



BEFORE UI PATTERNS...

There was Graphic User Interface (GUI)





In 1973, a group of computer scientists at **Xerox PARC** developed and launched the **Xerox Star**. A personal computer with the very first **graphical user interface (GUI)**.



The teams at **Apple Computer Inc** continued to develop and expand on the idea of the **GUI**. In January 19, 1983 Apple Computer Inc introduced **The Lisa**. First personal computer with **GUI**.

TRIVIA...

DROPDOWN MENU

Select Menu ▾

RADIO BUTTON

Radio

Selected Radio

CHECKBOX

Checkbox

Selected Checkbox

UI PATTERNS PRINCIPLE



Clarity is the #1



The image displays three overlapping screenshots of a mobile application interface for scheduling a service request.

Screenshot 1 (Top Left): Shows a profile card for "Richard Walsh" from "Bumikiara". It includes a photo, agency name, and operating hours ("Mon - Fri | 10:00 AM to 05:00 PM"). Below this is a "Time" selection interface with a clock icon, showing "AM" selected. A large digital clock displays "10 AM" above a grid for selecting minutes. The minute grid shows "30" highlighted in blue. At the bottom are "Done" and "Send Request" buttons.

Screenshot 2 (Top Middle): Shows a detailed view of the service request. It includes a photo of Richard Walsh, his agency information, and operating hours. A "SCHEDULE" section shows a single entry for "20 MAR 2017 - 11:27AM". Below this are fields for date ("25 Jun 2017"), time ("09:22PM"), location ("Huron Stat... LA Street 52097"), and notes. A "Send Request" button is at the bottom.

Screenshot 3 (Top Right): Shows a calendar view for June 2017. The days are numbered 17 through 30. Below the calendar are "Done" and "Save" buttons.

Central Text: The text "Consistency matters!" is overlaid in large blue letters across the middle of the three screenshots.

Strong visual hierarchies

The screenshot displays the AgileCRM software interface. On the left, a vertical navigation bar lists categories: Sales (Home, Contacts, Companies, Deals, Cases, Documents), Marketing, and Services. The 'Contacts' item is currently selected and highlighted in purple. The main content area shows a contact card for 'Claudia Mills' (Product Manager @TechnoCore), featuring a profile picture, a 5-star rating (128 reviews), and contact information (Email: claudia.mills@technocore.com, Phone: +919533480564, Address: West End 45th Street, San Francisco, 90123 California, US). Below this is a 'Custom Information' section with Facebook and Personal Phone Number details. At the bottom is a 'Tags' section with several tags listed. The top right features a search bar, a '+' Add button, and user profile icons. The bottom right shows a timeline for August, July, and June 2016, listing tasks, deals, and events with their respective dates and descriptions.

AgileCRM

Sales

Home

Contacts

Companies

Deals

Cases

Documents

Marketing

Services

Type in to Search..

+ Add

Actions

Send Email

Timeline Notes Events Tasks Deals Campaigns Web Stats Mail Documents

August, 2016

- 12 Aug TASK ADDED Prepare for a bi-weekly meeting to discuss new features 09:30am
- 10 Aug DEAL ADDED Deal for the property in Malibu with Casey Brother Real Estate 11:30am
- 10 Aug EVENT COMPLETED Meet with Claudia in the «Caffee Caldo» for Brunch 11:30am

July, 2016

- 12 Aug TASK ADDED Prepare for a bi-weekly meeting to discuss new features 09:30am
- 10 Aug DEAL ADDED Deal for the property in Malibu with Casey Brother Real Estate 11:30am
- 10 Aug EVENT COMPLETED Meet with Claudia in the «Caffee Caldo» for Brunch 11:30am

June 2016

Claudia Mills
Product Manager @TechnoCore

★★★★★ 128

Contact Information

Email Address: claudia.mills@technocore.com

Phone Number: +919533480564

Address: West End 45th Street, San Francisco, 90123 California, US

Custom Information

Facebook: facebook.com/caludiamills

Personal Phone Number: +919533480564

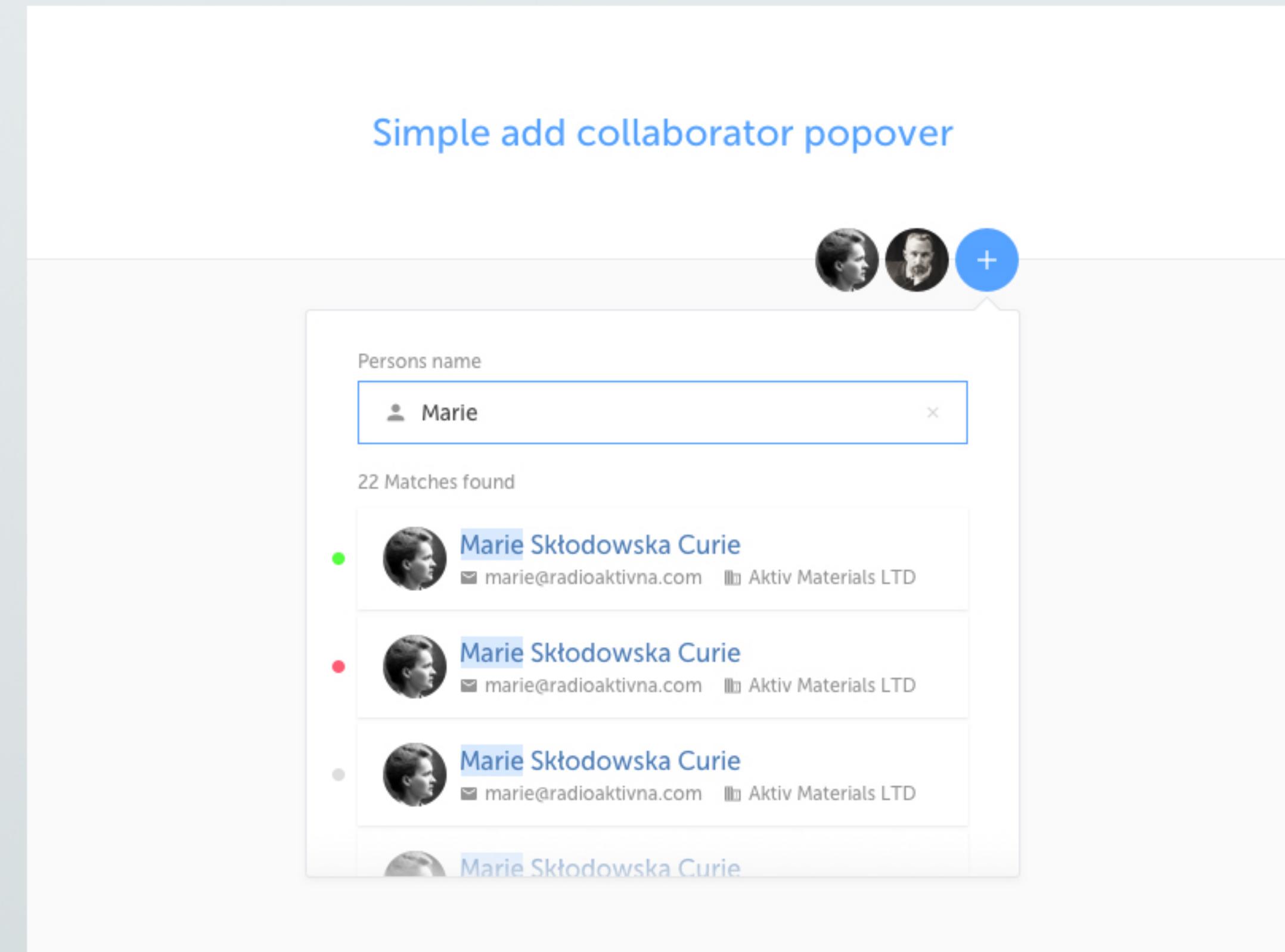
Tags

test tag x another tag x test tag x another tag x

another tag x test tag x test tag x

test tag x another tag x another tag x

Stay on the contexts

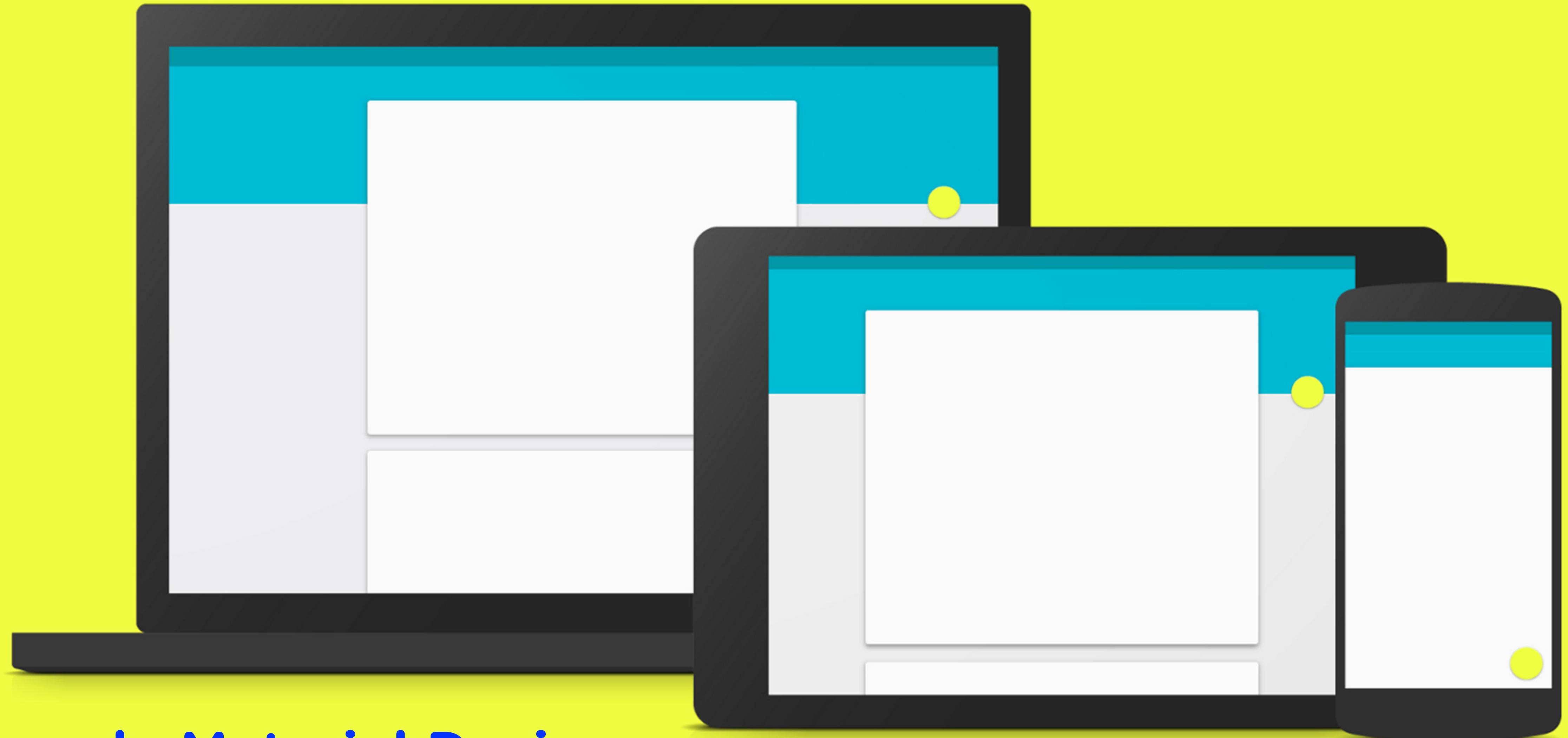


KISS (Keep it Simple Sh*t...)



UI PATTERNS SAMPLE



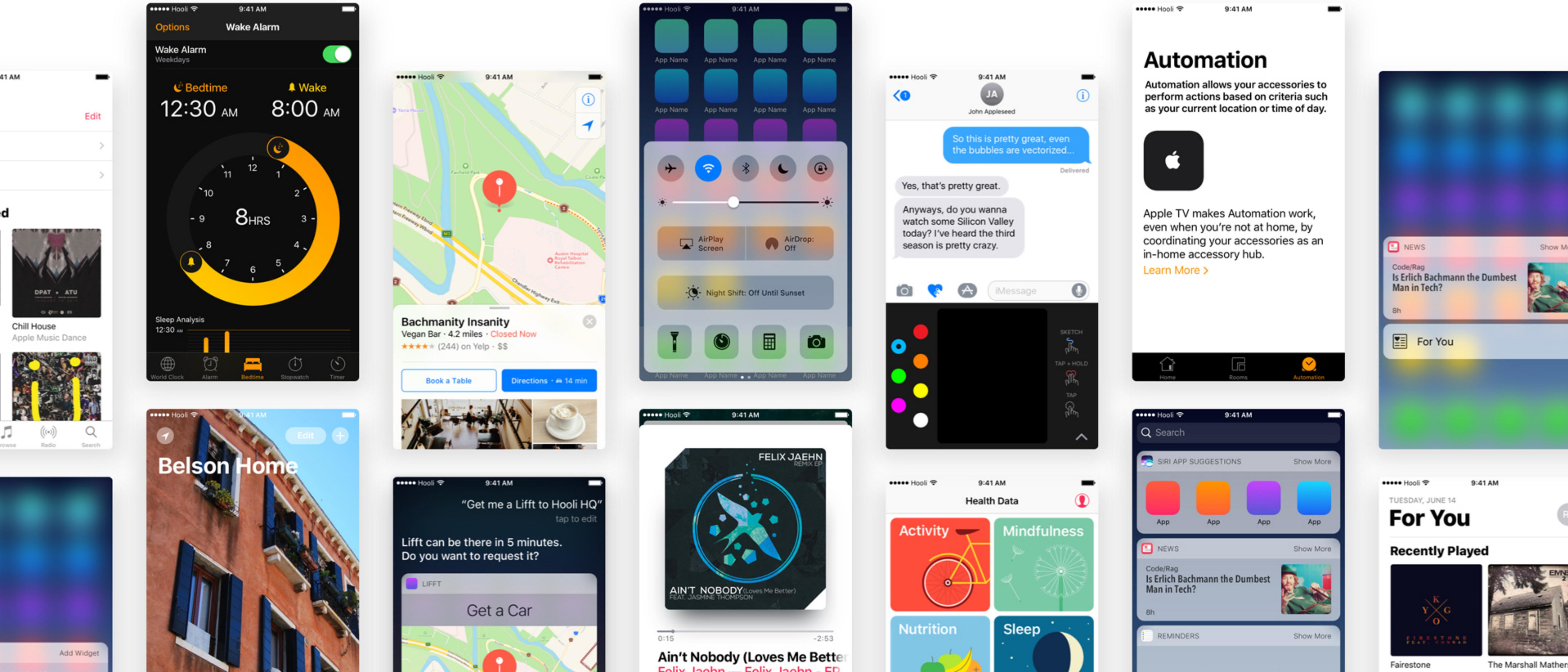


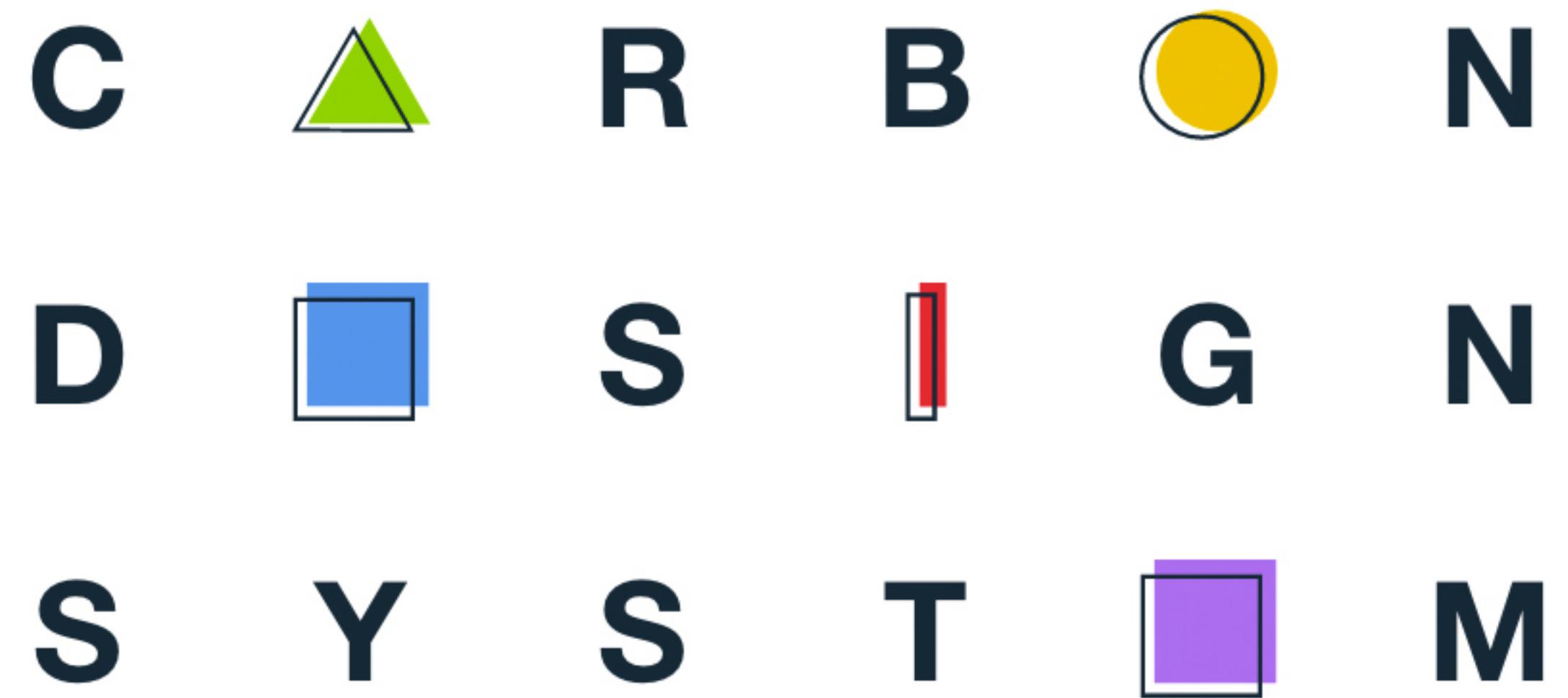
Google Material Design

<https://material.io/guidelines/>

iOS

<https://developer.apple.com/design/>





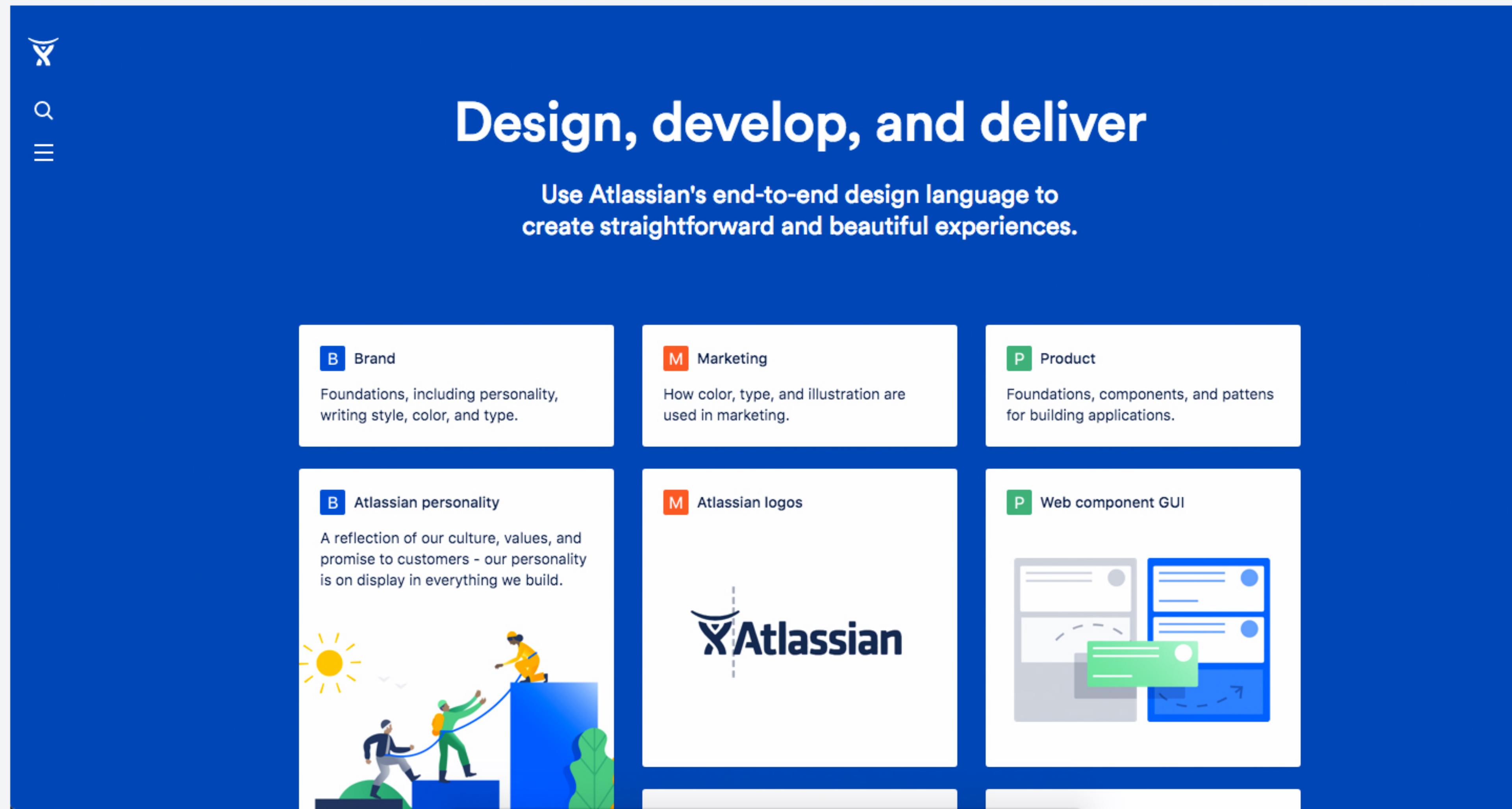
**Carbon Design
System**

<http://carbondesignsystem.com/>

UI PATTERNS IN STARTUPS / DIGITAL PRODUCTS

Atlassian

<https://www.atlassian.design/>



The image shows the Atlassian design language landing page. The header features the Atlassian logo and the URL https://www.atlassian.design/. The main title "Design, develop, and deliver" is prominently displayed in white. Below it is a subtitle: "Use Atlassian's end-to-end design language to create straightforward and beautiful experiences." On the left side, there are three navigation icons: a search icon, a magnifying glass icon, and a menu icon. The page is divided into six sections arranged in a grid:

- B Brand**: Foundations, including personality, writing style, color, and type.
- M Marketing**: How color, type, and illustration are used in marketing.
- P Product**: Foundations, components, and patterns for building applications.
- B Atlassian personality**: A reflection of our culture, values, and promise to customers - our personality is on display in everything we build. This section includes an illustration of two people climbing a blue staircase towards a sun.
- M Atlassian logos**: The Atlassian logo.
- P Web component GUI**: Illustrations of various web interface components like cards, charts, and forms.

Salesforce

<https://www.lightningdesignsystem.com/>

The screenshot shows the homepage of the Salesforce Lightning Design System. The header features the Salesforce logo and a search bar. The main title is "Lightning Design System" with a lightning bolt icon. Below it is the tagline "Create the world's best enterprise app experiences." A "Get Started" button and a link to the "Current release: Spring '17 (SLDS 2.2.2) | Archives" are visible. The page includes a sidebar with links like "Getting Started", "Platforms", "Guidelines", "Components", "Design Tokens", "Icons", "Downloads", "Articles", "FAQ", and "Feedback". The background is blue with white text and features a collection of geometric shapes (cubes, spheres, etc.) and a large green pencil icon.

salesforce

Search

Getting Started

Platforms

Guidelines

Components

Design Tokens

Icons

Downloads

Articles

FAQ

Feedback

Lightning Design System

Create the world's best enterprise app experiences.

Get Started

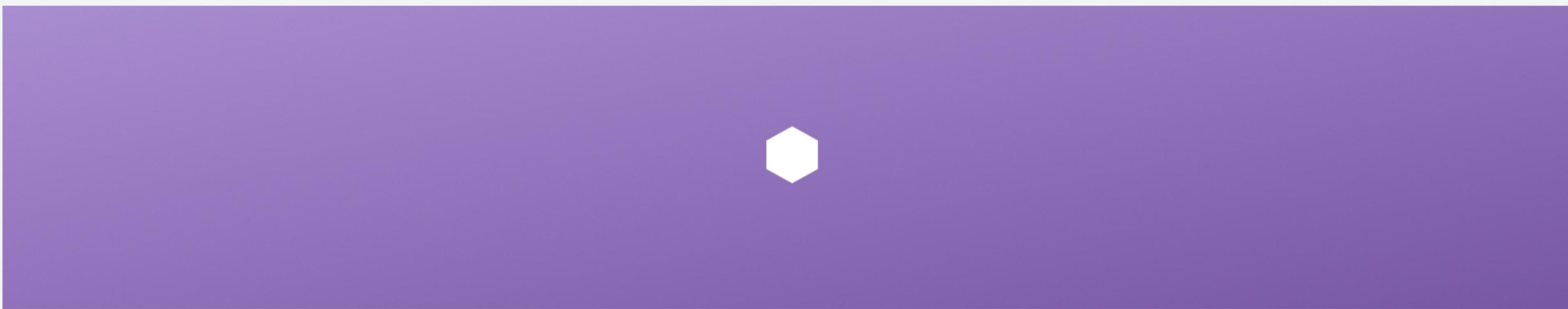
Current release: Spring '17 (SLDS 2.2.2) | Archives

Style with Ease

With the Lightning Design System you can build custom applications with a look and feel that is consistent with Salesforce core features – without reverse engineering our styles! Simply download our platform-agnostic CSS framework and get started today.

HerokuApp

<http://purple.herokuapp.com/>



GETTING STARTED

[Introduction](#)

STYLE KIT

[Installation](#)

[Writing CSS](#)

[Color](#)

[Typography](#)

[Buttons](#)

[Grid system](#)

[Forms](#)

[Validation](#)

[Alerts](#)

[Modal](#)

[Sub nav](#)

[Lists](#)

There's a new version of Purple available. [View the docs.](#)

Introduction

Purple is a UI kit for all of Heroku's digital properties. Purple provides guidelines for the aesthetic, function, and form of user interfaces to provide a consistent experience for our customers. This is a living document and is under constant iteration.



Mailchimp

<http://ux.mailchimp.com/patterns/>

The screenshot shows the Mailchimp Patterns website. At the top left is the Mailchimp logo. The navigation bar includes links for 'Patterns' (which is active) and 'About'. On the left side, there's a sidebar with links: Grid System (highlighted in blue), Typography, Form Elements, Navigation, Tables, Lists, Slats, Stats/Data, Feedback, Dialogs, Freddicons, and Helper Classes. The main content area has a title 'Grid System' and a sub-section 'Grid sizes'. Below this, there's a heading 'Size 1 of 1' with a large teal box labeled '1 / 1'. Below that, there's another heading 'Size 1 of 2' with two teal boxes labeled '1 / 2' each.

Grid System

Grid sizes Grid gutter Mixed grids Responsive columns Nested grids

Our grid system is composed of 8 flexible columns with a gutter between columns of 30px. We apply [border-box](#) so that the border and padding is included in the width of the grid columns.

Grid sizes

Size 1 of 1

1 / 1

Size 1 of 2

1 / 2

1 / 2

LonelyPlanet

<http://rizzo.lonelyplanet.com/styleguide/>

The screenshot shows the 'Design Elements' section of the LonelyPlanet style guide. On the left, there's a sidebar with 'DESIGN' and 'ICONS' sections. Under DESIGN, 'Design Palette' is selected. Under ICONS, 'Destination' is selected. The main content area is titled 'Colour Palette' and contains three sections: 'GRAY PALETTE', 'PRIMARY PALETTE', and 'SECONDARY PALETTE'. Each section displays five color swatches with their corresponding hex codes and variable names.

DESIGN

- Design Palette >
- UI Colours >
- Destination Next Colors >
- Typography >

ICONS

- Destination >
- Interests >
- Interface >
- Need to Know >
- Weather >

Colour Palette

This is the primary and secondary colour palettes as described in the PSD styleguide and in [colour_palette.sass](#)

GRAY PALETTE

#2c3643	#3b444f	#67747c	#99a9b3	#dbe6ec
\$darkgray	\$titlegray	\$bodygray	\$lightgray	\$subduedgray

PRIMARY PALETTE

#142b44	#1d508d	#297CBB	#288ad6	#0FDEBD
\$darkblue	\$navblue	\$lpblue	\$linkblue	\$teal
#16c98d	#feef6d	#ffc83f	#fa5e5b	#bf538d
\$green	\$yella	\$orange	\$red	\$plum

SECONDARY PALETTE

[Color swatch]				
----------------	----------------	----------------	----------------	----------------

Find closest color

ATOMIC DESIGN



ATOMS

MOLECULES

ORGANISMS

TEMPLATES

PAGES

WHAT IS ATOMIC DESIGN?

ATOMIC DESIGN

Atomic design is methodology for creating design systems or UI Patterns. There are five distinct levels in atomic design: Atoms, Molecules, Organisms, Templates, and Pages.



“We’re not designing pages
We’re designing systems of components”

STEPHEN HAY

WHY ATOMIC DESIGN?





Interfaces are made up of smaller components. This means we can break entire interfaces down into fundamental building blocks and work up from there. That's the basic gist of atomic design.

Atomic design provides a clear methodology for crafting design systems. It gives us the ability to traverse from abstract to concrete. Because of this, we can create systems that promote consistency and scalability while simultaneously showing things in their final context.

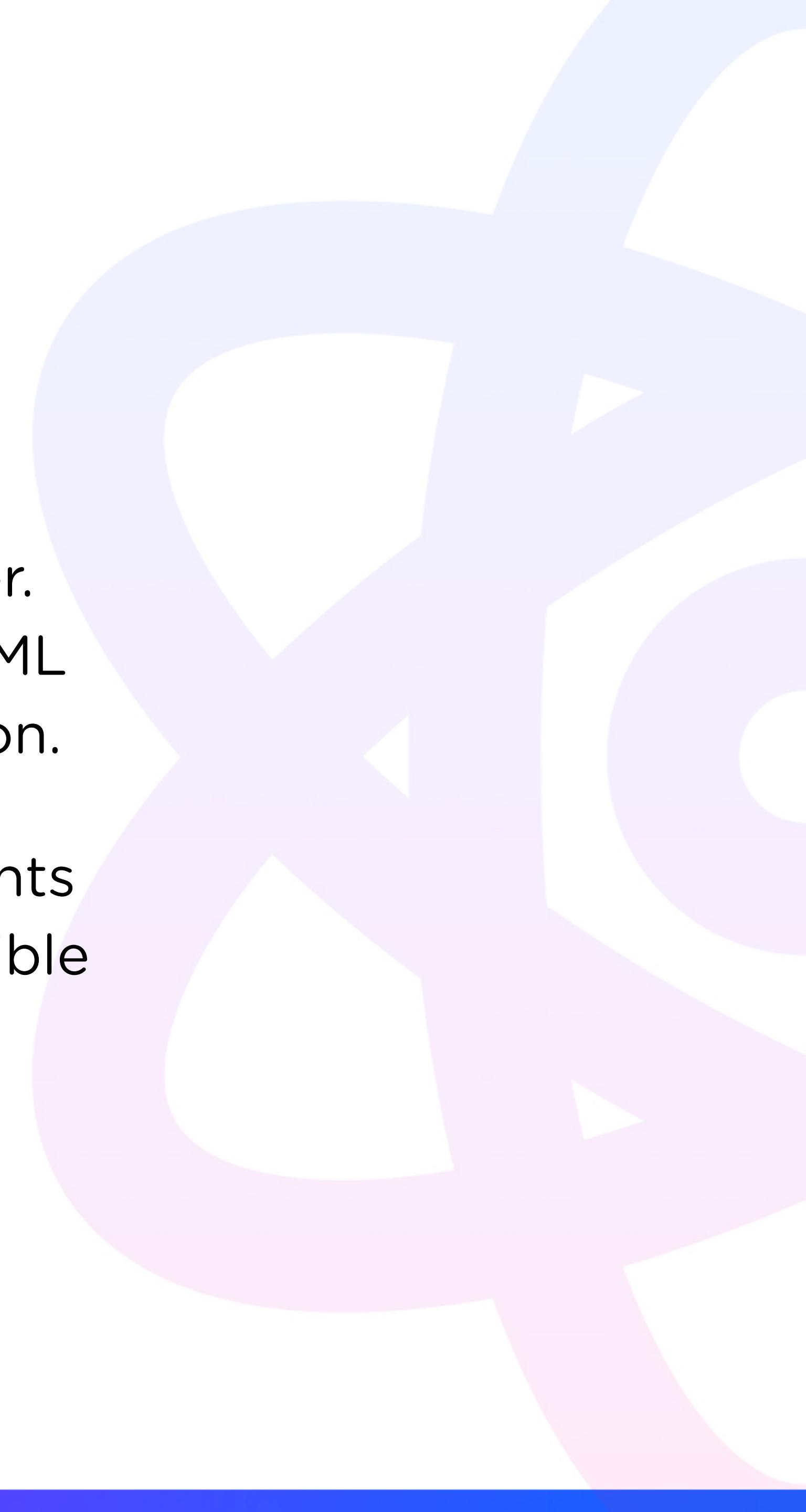
BRAD FROST

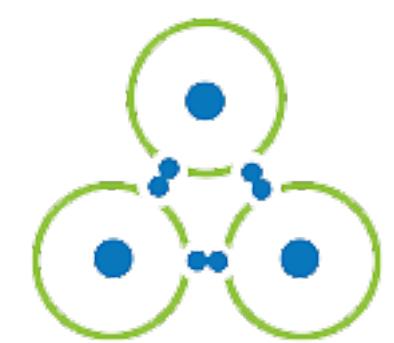


ATOMS

Atoms are the basic building blocks of matter. Applied to web interfaces, atoms are our HTML tags, such as a form label, an input or a button.

Atoms can also include more abstract elements like color palettes, fonts and even more invisible aspects of an interface like animations.

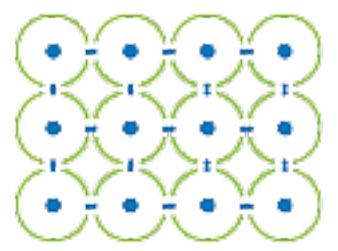




MOLECULES

Molecules are groups of atoms bonded together and are the smallest fundamental units of a compound. These molecules take on their own properties and serve as the backbone of our design systems.

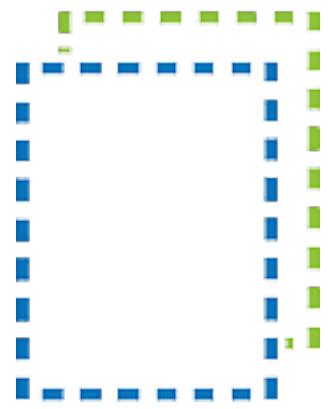
For example, a form label, input or button aren't too useful by themselves, but combine them together as a form and now they can actually do something together.



ORGANISMS

Organisms are groups of molecules joined together to form a relatively complex, distinct section of an interface.





TEMPLATES

Templates consist mostly of groups of organisms stitched together to form pages. It's here where we start to see the design coming together and start seeing things like layout in action.

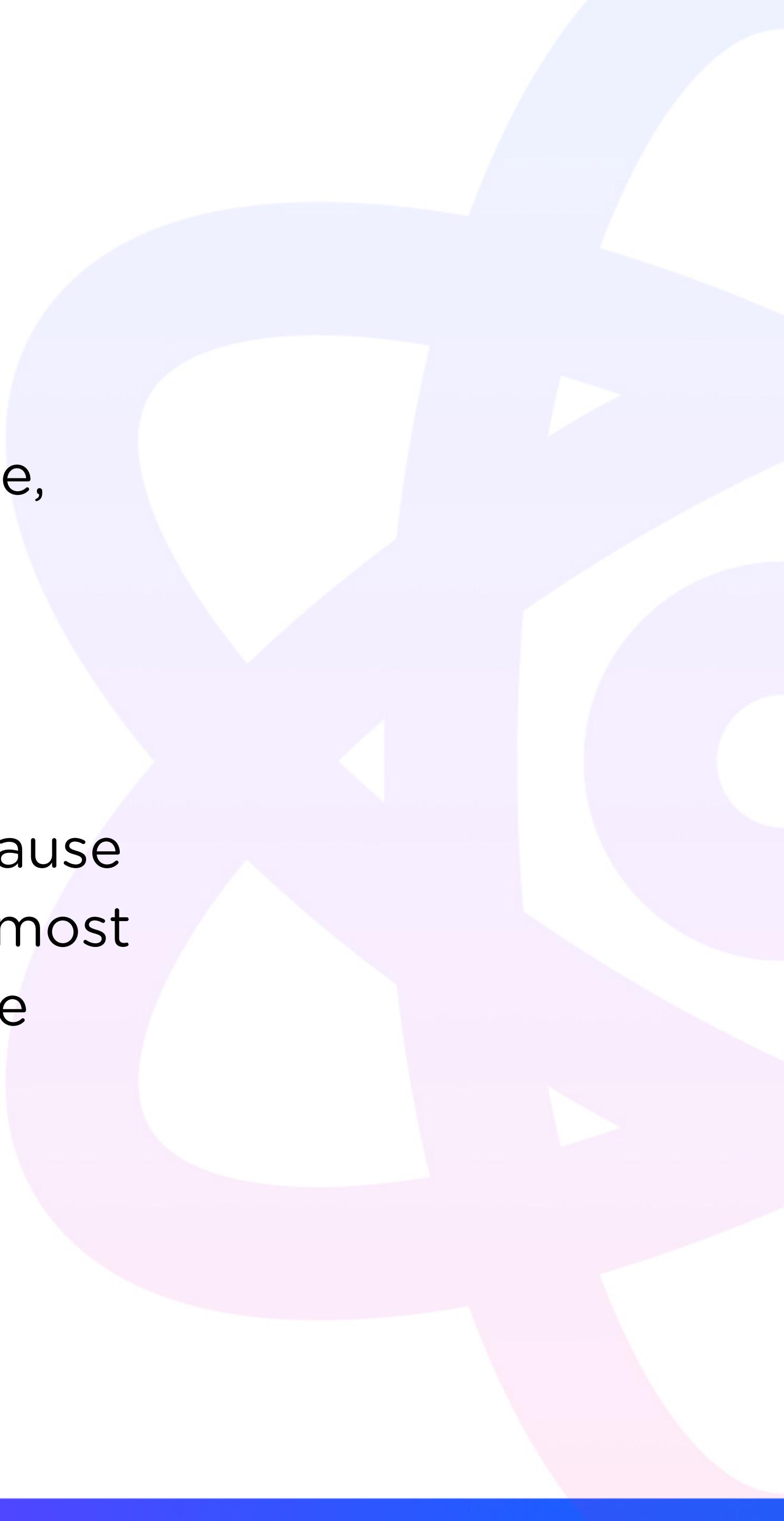




PAGES

Pages are specific instances of templates. Here, placeholder content is replaced with real representative content to give an accurate depiction of what a user will ultimately see.

Pages are the highest level of fidelity and because they're the most tangible, it's typically where most people in the process spend most of their time and what most reviews revolve around.



.INDEX





LET'S START DEFINING...



ATLASSIAN

<https://www.atlassian.design/guidelines/product/overview>

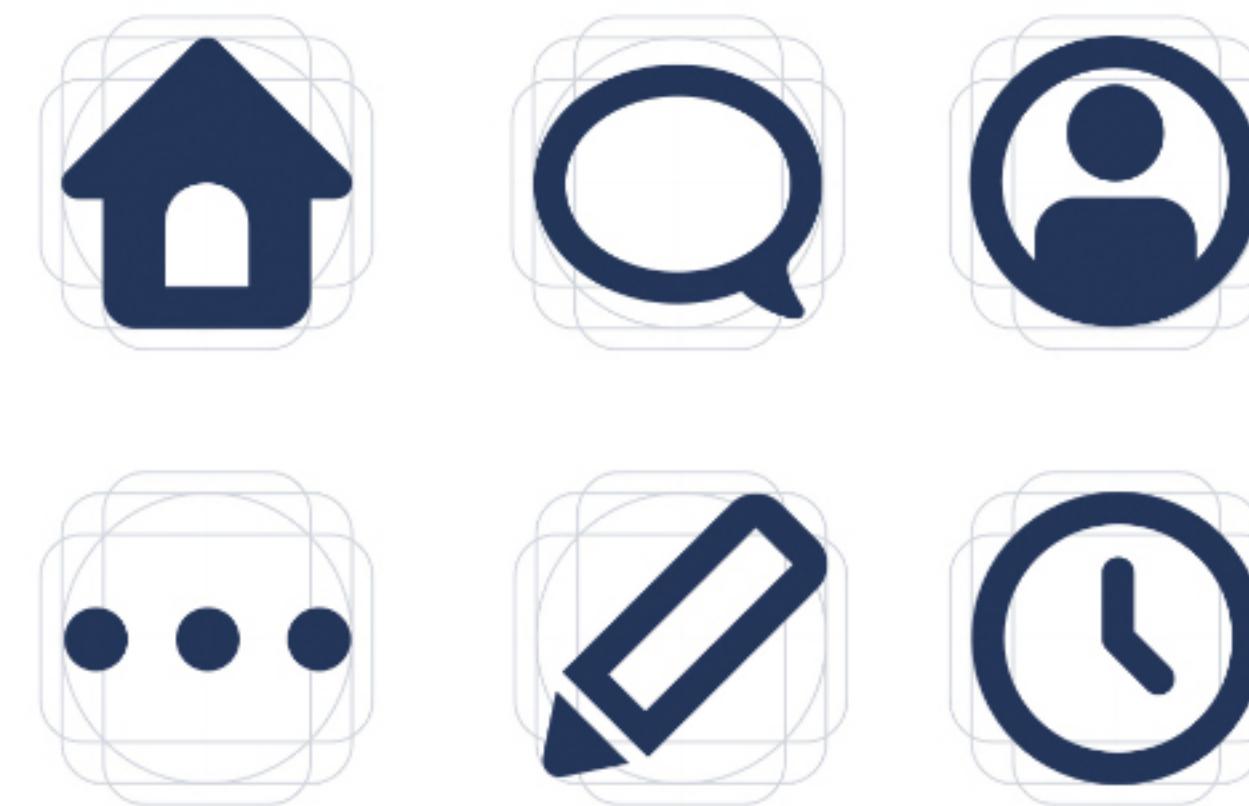
PRE-ATOMS

NAME B400	NAME N800	NAME N0
RGB 0, 82, 204	RGB 23, 43, 77	RGB 255, 255, 255
CMYK 100, 60, 0, 0	CMYK 98, 85, 42, 40	CMYK 0, 0, 0, 0
HEX #0052CC	HEX #172B4D	HEX #FFFFFF

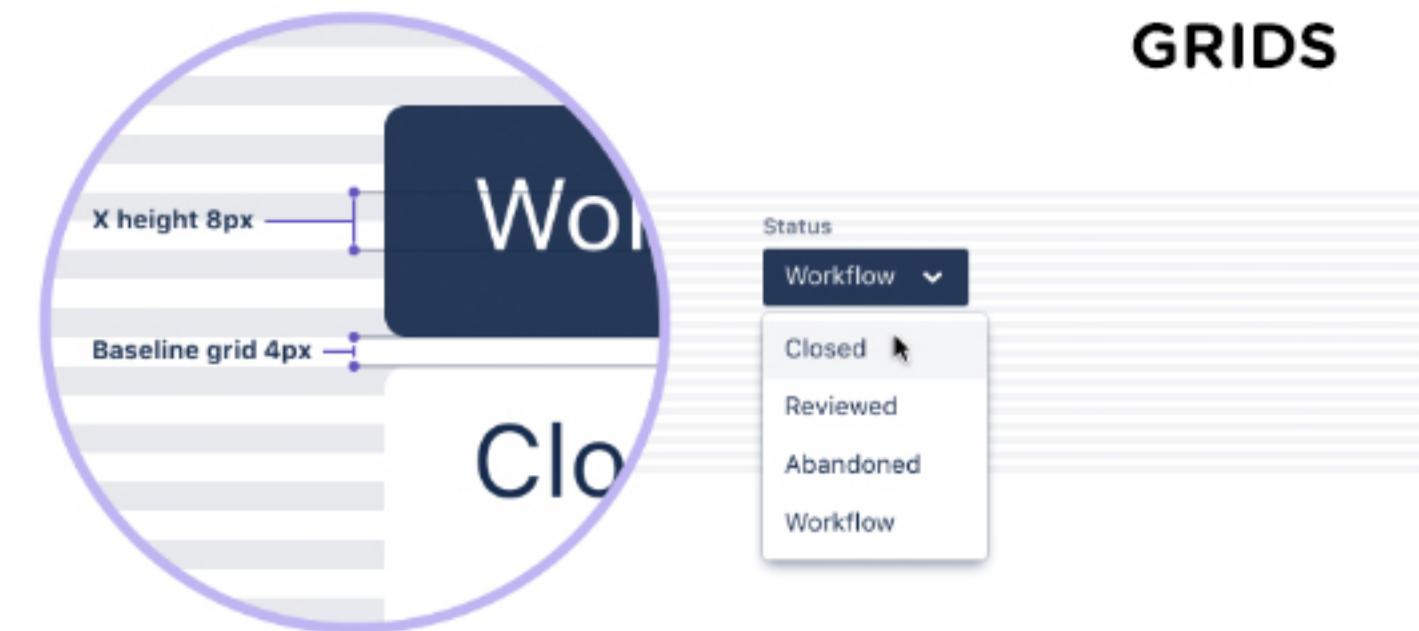
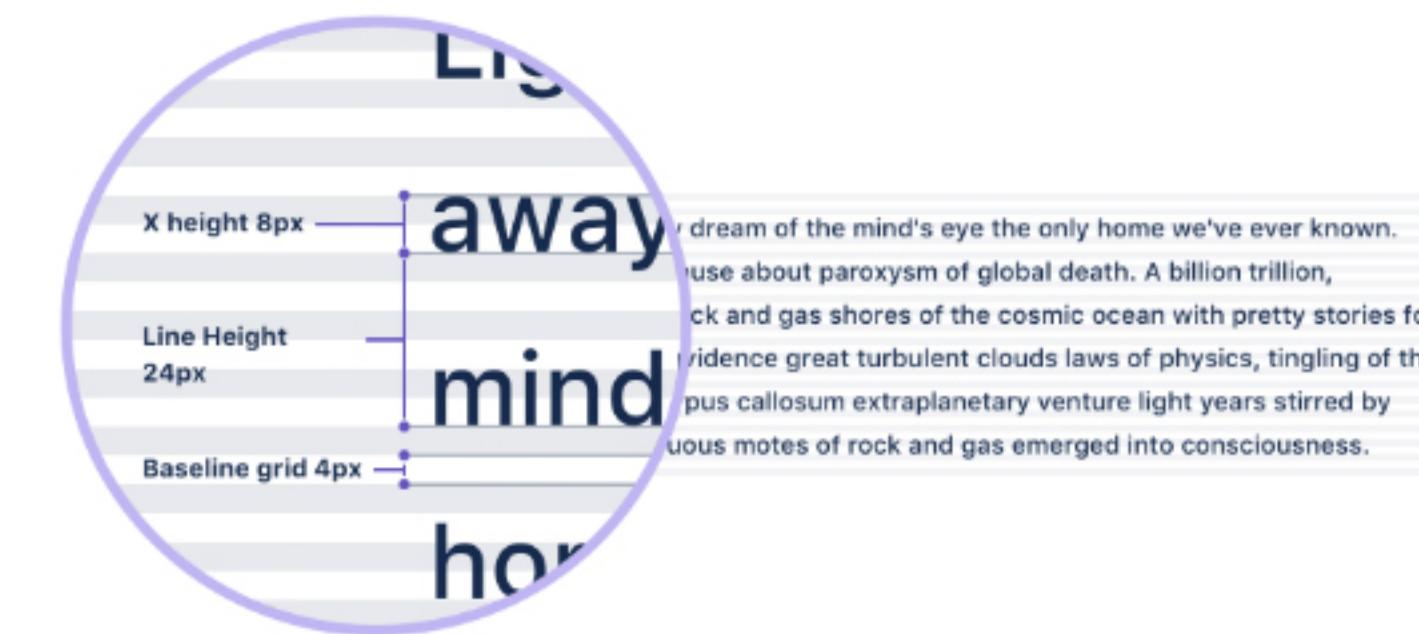
COLORS

OS	Font family
Windows	Segoe UI
MacOS & iOS	SF UI Text SF UI Display Helvetica Neue (fallback)
Chrome OS & Android	Roboto Noto Sans (fallback) Droid Sans (fallback)
Ubuntu	Ubuntu

TYPOGRAPHY



ICONOGRAPHY



GRIDS

Size	Example	Description
96px		Use these large hero avatars in prominent positions on the page, like in user profiles.
48px		Use this avatar for main page titles, such as a user's account settings.
32px		Use for medium sized avatars, like in activity streams or comments.
24px		Use in containers or 40px text fields.
16px		Use in on-screen metadata, like in JIRA issues or dialog menus.

AVATARS

Atlassian / Compass / CMOB-1194

BREADCRUMBS



Type	Description
Tag text	A tag with static text can be used as a flag or reference to an object or attribute.
Tag link	Use to link to more information on the tagged item.
TAG	

See the [Recovery process documentation](#) for more information.

BANNERS

Messina Cake

TEXT FIELD

Primary

Standard

Link button

BUTTONS

MOLECULES

Assignee

A search bar labeled "Assignee" with a magnifying glass icon. Below it is a dropdown menu titled "SUGGESTIONS" containing a single item: "Maryanne Nguyen mnguyen@atlassian.com". A list of "ALL USERS" follows, including Sam Samuels, Leana Stevens, Casey Chambers, Paige Turner, Maryanne Nguyen, Casey Chambers, Sebastian Phillip Cloud, Leana Stevens, and Justin Case.

SINGLE SELECT

Assignee

A search bar labeled "Assignee" with a magnifying glass icon. Below it is a dropdown menu titled "SUGGESTIONS" containing "Justin Case jccase@atlassian.com". A list of "ALL USERS" follows, including Sam Samuels, Leana Stevens, Casey Chambers, and Paige Turner.

MULTI SELECTS

Workflow

Closed

Reviewed

Abandoned

Workflow

Selected coffees

- Espresso
- Cappuccino
- Flat white
- Long black

Permissions

- Read only
- Write
- Restricted

Add Cancel

DROP MENU

CHECKBOXES

RADIO BUTTONS



Raj Shah 12, November 2016

@Matthew Wu, can we re-run this once create/edit is out the door?

Reply · Edit · Delete · Like



Matthew Wu AUTHOR 13, November 2016

Sure we can do that. We have a summary report every month. This is the last one: Mobile Feedback Scorecard - October 2016

Reply · Edit · Delete · Like

Details

Diff

Commits

Pipeline

TABS

Due date

Today



November 2015						
SUN	MON	TUE	WED	THU	FRI	SAT
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

CALENDAR

Allow pull requests

Disable pull requests

Allow other users to merge this branch via pull request

Rewriting history

Branch deletion

TOGGLES

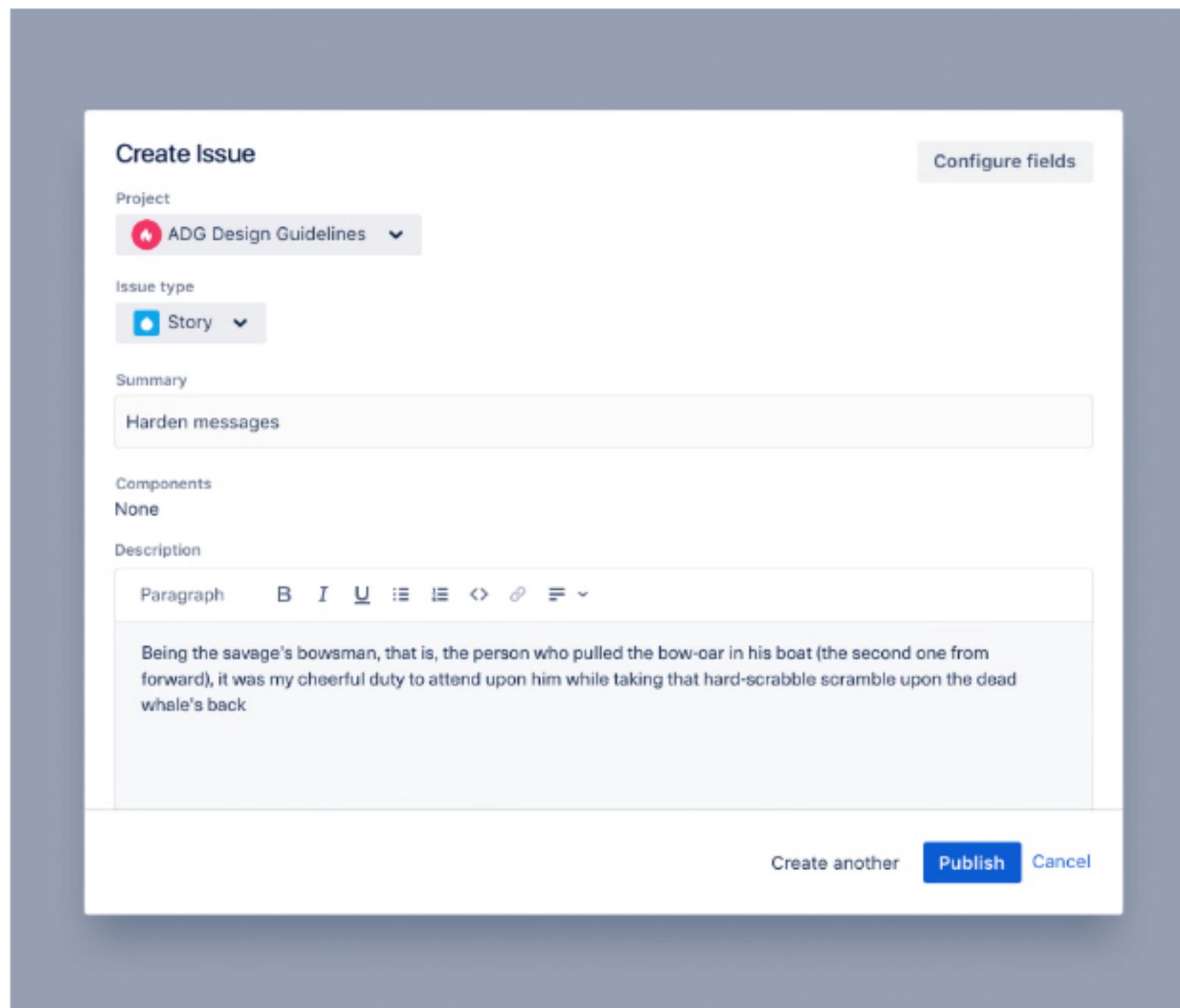


Insert link (98K)

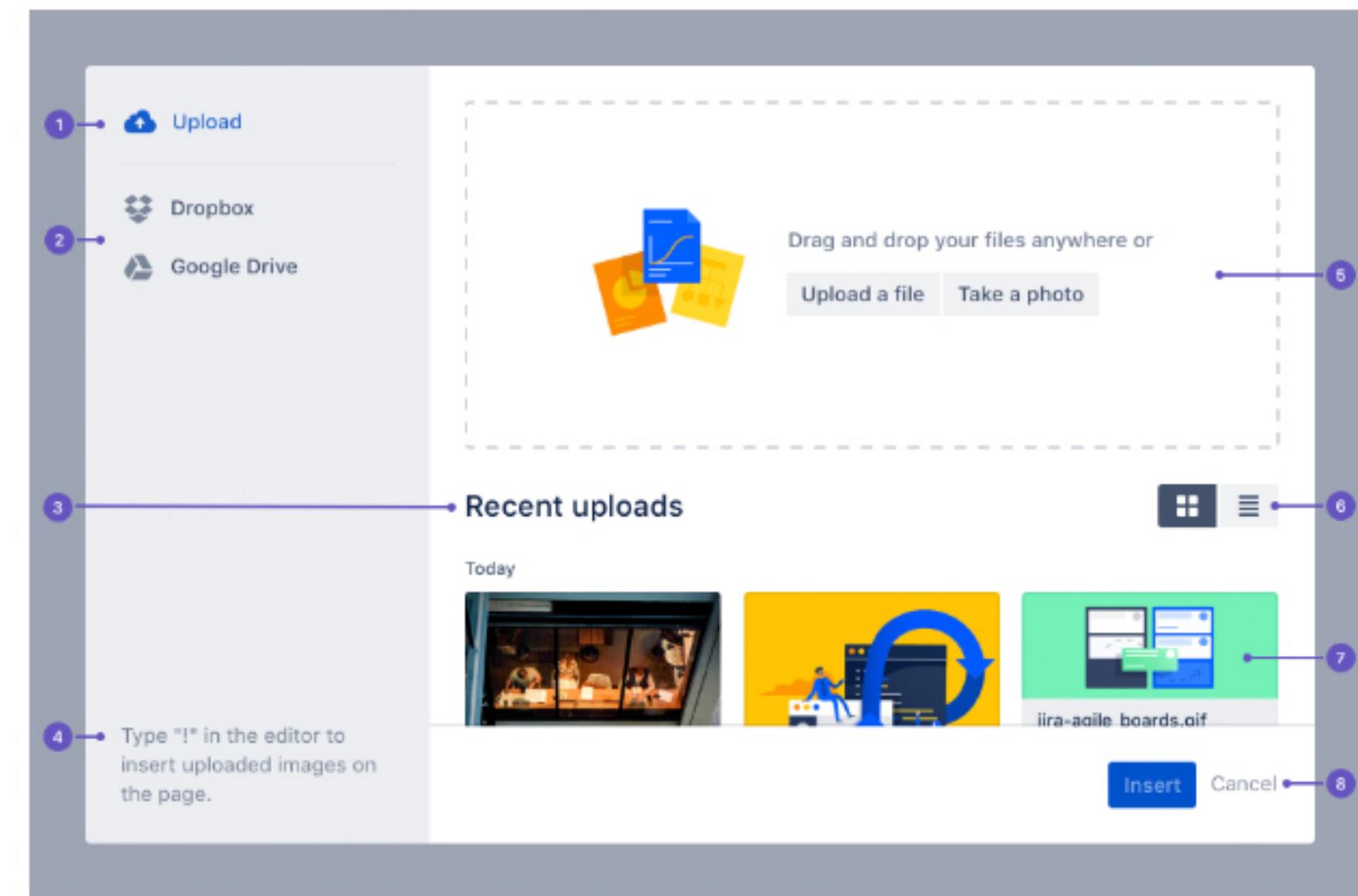
TOOLTIPS



ORGANISMS



MODAL DIALOGS



MEDIA PICKERS

Repository	Collaborators
3rd_library	+6
a11y-dashboard	
aac-sac	
3rd_library	+6

TABLES

Bitbucket

- Overview
- Repositories
- Projects
- Pull requests
- Issues
- Snippets

SHARE YOUR THOUGHTS

Give feedback

Turn off new nav

Dashboard

Pull requests

Waiting on your review	Activity	Reviewers	Builds
BBCDEV-1623 move image differ f... → staging Jonathan Poh - #12416, last updated 29 minutes ago in bitb...	23	3	Green checkmark
BBCDEV-5143: show console notif... → staging Jonathan Poh - #12790, last updated 29 minutes ago in bitb...	9	2	Red exclamation mark
BBCDEV-6002: hide back button i... → master Stacy London - #70, last updated 33 minutes ago in Bitkit	1	2	Red exclamation mark
BBCDEV-6002: adjust skeleton na... → staging Stacy London - #12804, last updated 33 minutes ago in bitb..	1	1	Green checkmark

Created by you

bitbucket-pipelines.yml created online w... → master #1, last updated 13 minutes ago in testing settings	4	2	Green checkmark
this is fine created online with Bitbucket → master #2, last updated 24 minutes ago in testing settings	1	2	Green checkmark

Repositories

Recently viewed ▾

Repository
production
bit-r10k
bb-connect-highlighter
deception
etc
Will's new Repo
devops-lunch-and-learn
conq
puppet

[View all repositories](#)



RESOURCES

<http://atomicdesign.bradfrost.com/>

<http://bradfrost.com/blog/post/atomic-web-design/>

<http://styleguides.io/>



Thank You.

