

Component- Driven Development using Storybook

@spietrek

github.com/spietrek

About Me



My name is Steve
Pietrek



Work for Insight Digital
Innovation in Raleigh,
NC



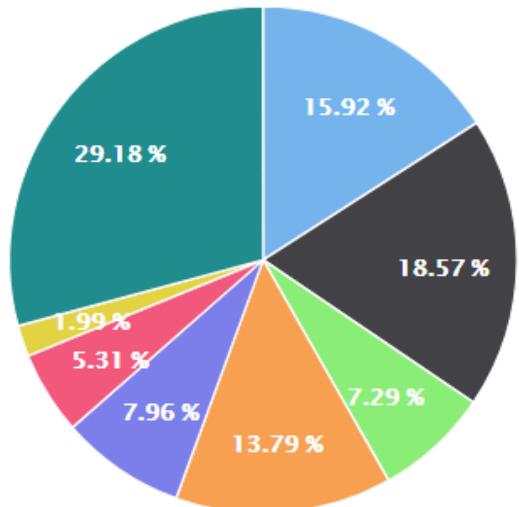
App Dev Practice
Manager / Front End
Developer



Twitter: **@spietrek**



Campaign Totals



Campaign

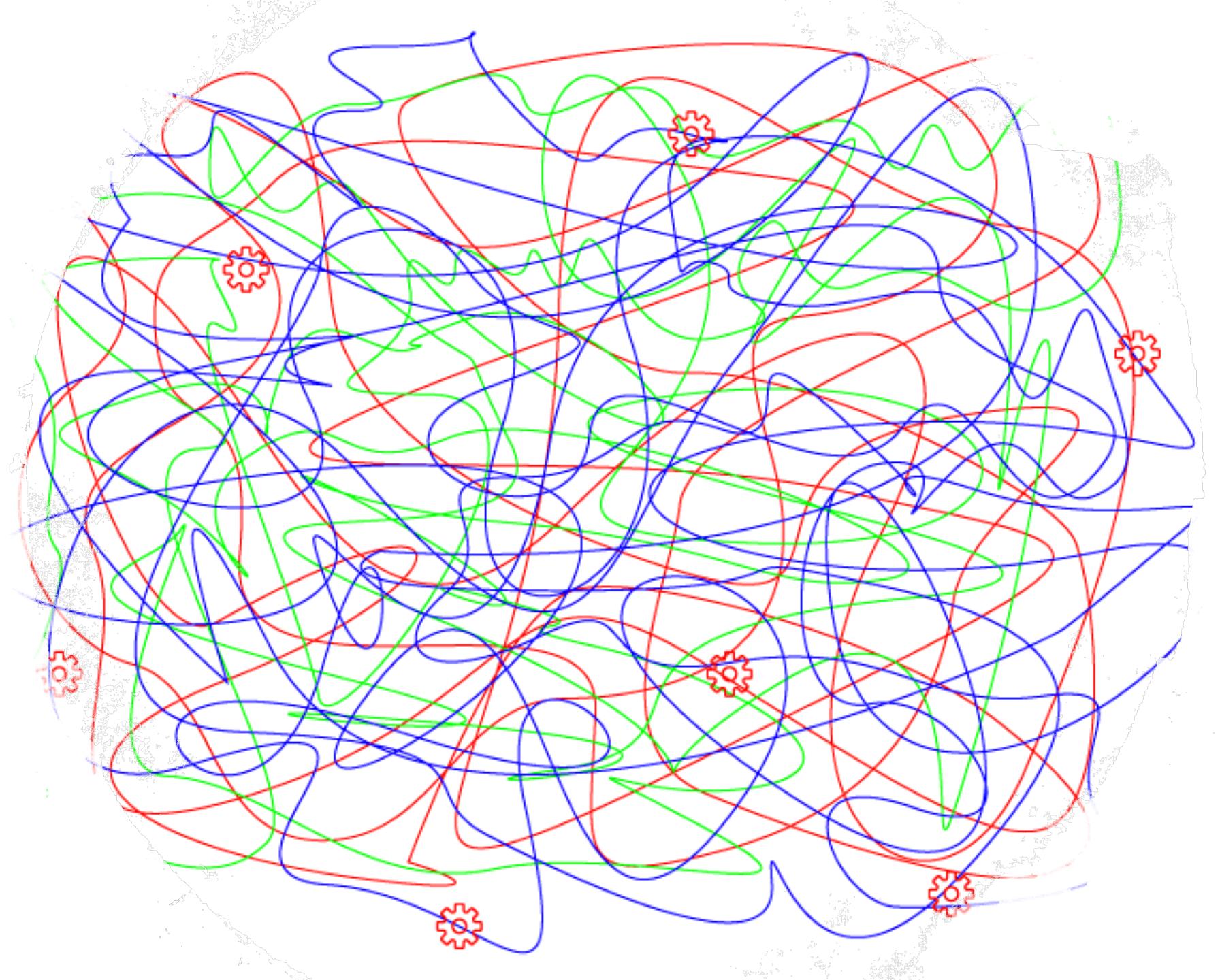
- Holiday Event
- Fundraiser Gala
- Footprints
- Donations
- Dance Dance
- Capital Marathon
- Bake Sale
- Annual Fundraiser

Campaign	Amount
Annual Fundraiser	\$110,000.00
Bake Sale	\$7,500.00
Capital Marathon	\$20,000.00
Dance Dance	\$30,000.00
Donations	\$52,000.00
Footprints	\$27,500.00
Fundraiser Gala	\$70,000.00
Holiday Event	\$60,000.00
Sum	\$377,000.00

Campaign Donations

Donor	Annual Fundraiser	Bake Sale	Capital Marathon	Dance Dance	Donations	Footprints	Fundraiser Gala	Holiday Event
Bill Gates	\$30,000.00	\$2,500.00	\$10,000.00	\$0.00	\$35,000.00	\$0.00	\$0.00	\$50,000.00
George Mitchell	\$45,000.00	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$20,000.00	\$10,000.00
John Arrillaga	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00
Lyda Hill	\$0.00	\$5,000.00	\$0.00	\$10,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00
Millicent Atkins	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$25,000.00	\$15,000.00	\$0.00









Press "/" to search...

- Getting Started
- Installation
- Customization
- Atoms
 - Badge
 - Button
 - ButtonGroup
 - CircularThumbnail
 - FormGroupLabel
 - FormGroupTextHelp
 - LoadingDots
 - NumberCircle
 - ProgressBar
 - RadioButton
 - Select
 - Tag
 - TextArea
 - TextInput
 - Tooltip
 - Trend
- Layout
- Molecules
 - Accordion
 - Avatar
 - Breadcrumbs
 - BreadcrumbsWrapper
 - Card
 - CardBlock
 - CardImage
 - Checkbox

Id	Name	Title	Age	Weight	Height
0	Jena	Labor Economist	20	190	6'10"
1	Brynn	Automobile Body Repair Supervisor	52	155	5'9"
2	Brynn	Cellist	42	118	4'4"
3	Ena	Optomechanical Technician	28	163	5'6"
4	Christie	Butane Compressor Operator	29	165	4'3"
5	Valorie	Funeral Arranger	18	124	5'9"
6	Ena	Labor Economist	60	145	4'3"
7	Clora	Butane Compressor Operator	35	212	4'1"
8	Tonja	Labor Economist	58	146	5'6"
9	Piedad	Motel Maid	40	135	6'8"

Story Source

```
<Table
  columns={[
    'id',
    'name',
    'title',
    ...
  ]}
```

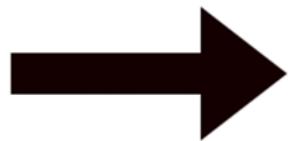
Copy

Knobs

Rows	1	10 / 10
Column Config	simple	
hasHeader	<input checked="" type="checkbox"/>	
isInverse	<input type="checkbox"/>	
isSecondary	<input type="checkbox"/>	
isStriped	<input type="checkbox"/>	
isResponsive	<input type="checkbox"/>	
onRowClick	<input type="checkbox"/>	
Size	No Value	

Component-Driven Development





by @brad_frost



by @brad_frost

Component Key Concepts

Single
Responsibility
Principle

Reusability

Composition

Single Responsibility Principle

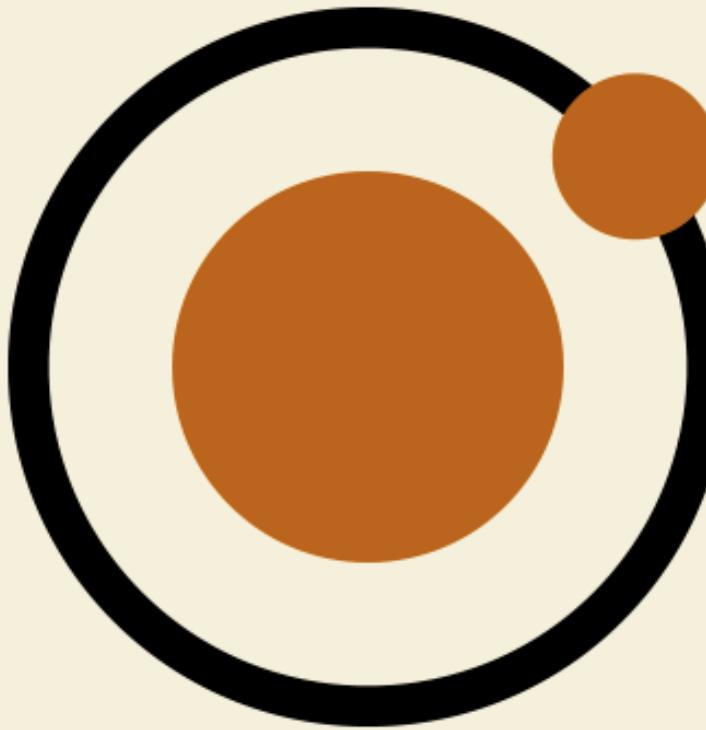


Reusability



Composition

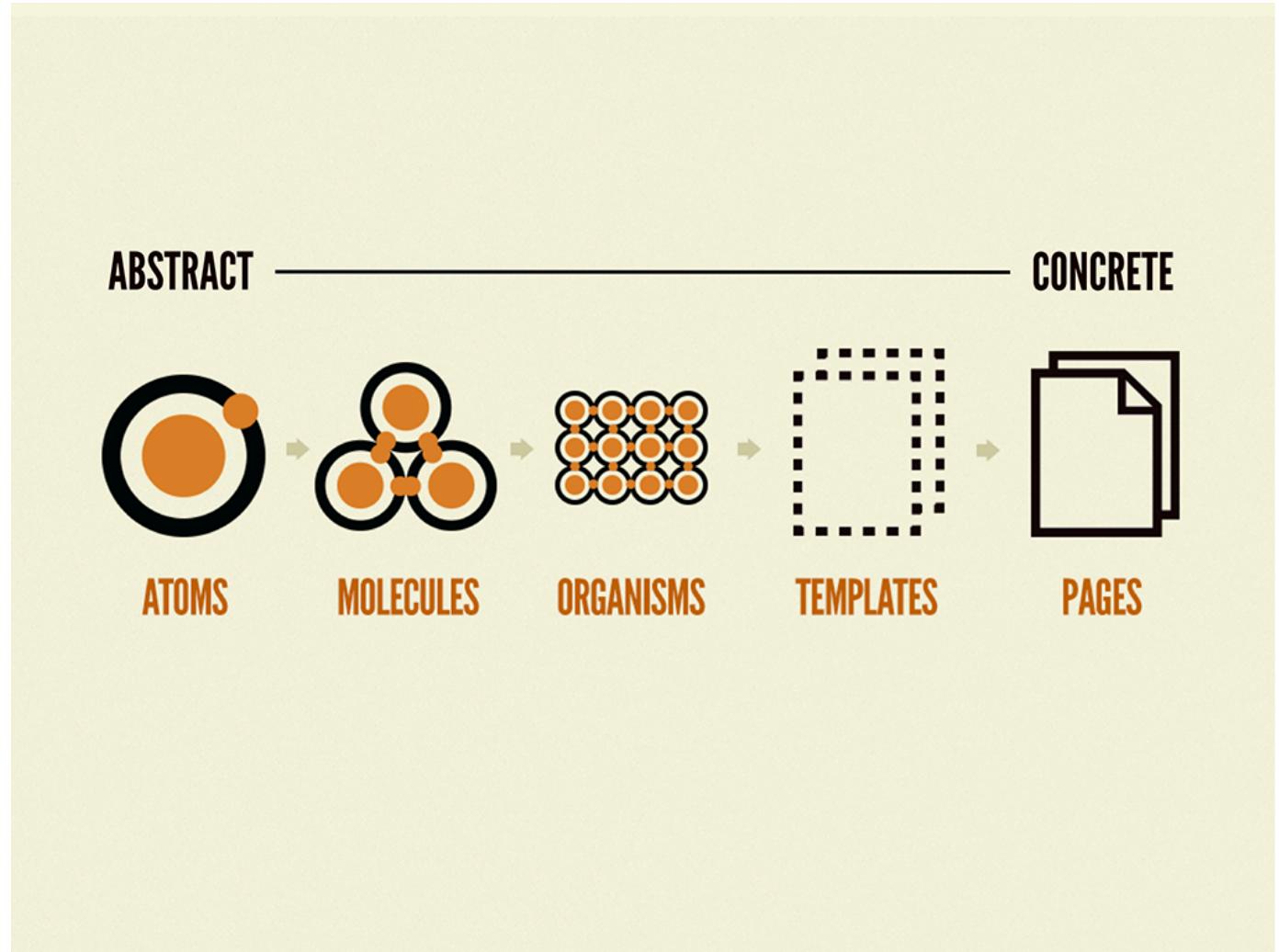


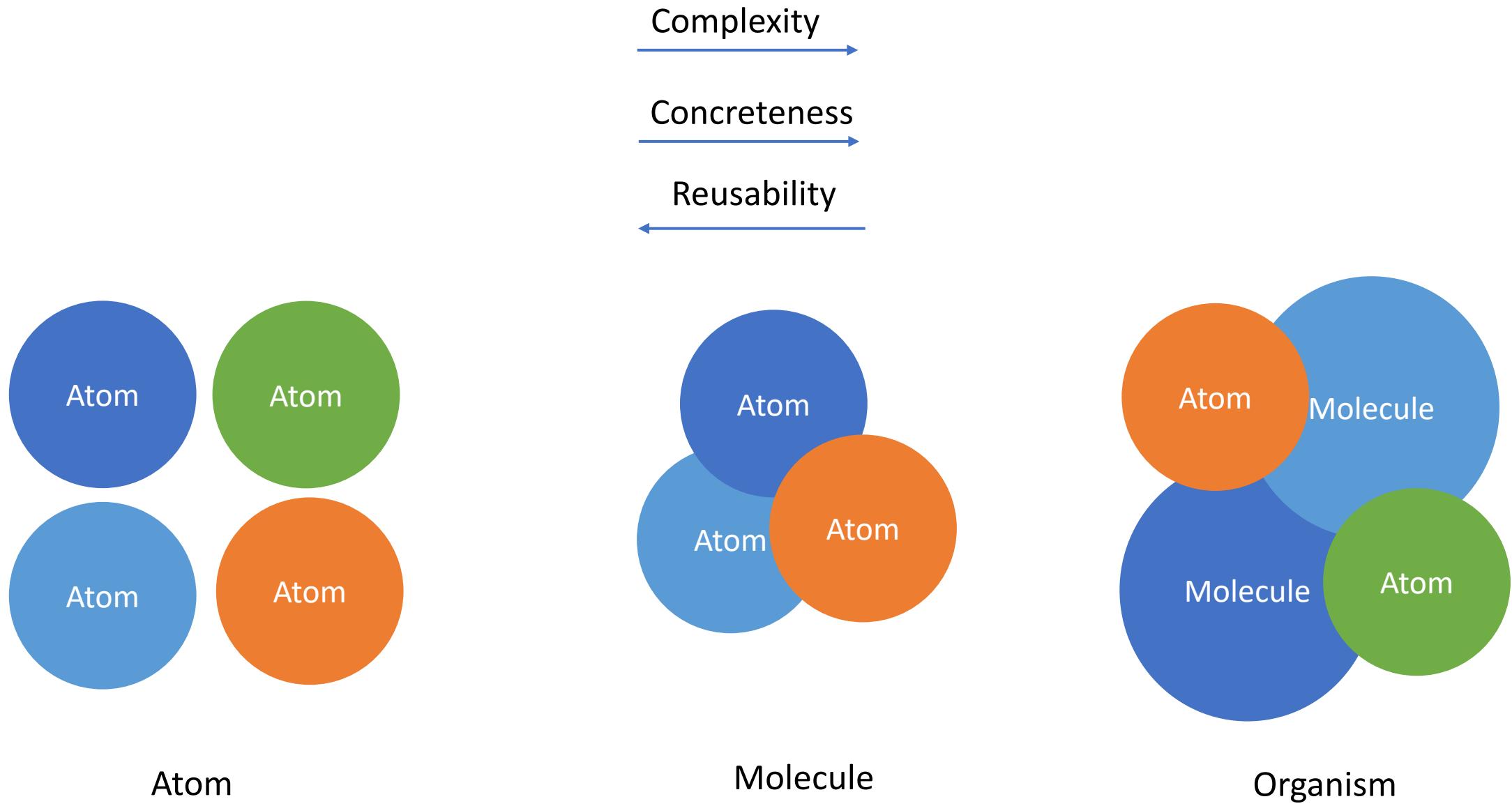


Atomic Design

Brad Frost

Atomic Design







107
TOTAL PROJECTS

18
RED PROJECTS

48
YELLOW PROJECTS

41
GREEN PROJECTS

All Projects

Filter results

Name	Overall	Budget	Resource	Schedule	Project Manager	Modified
Project 1	R	Y	R	Y	Maddie	Jan 8 2020 7:51:40 AM
Project Alpha	R	G	R	R	Laura	Oct 19 2019 1:59:14 PM
Project Delta	R	R	R	Y	Laura	Jun 13 2019 12:59:45 PM
Project Hans Solo	R	R	G	G	Laura	Jun 10 2019 11:10:06 AM

Atoms



InsLabel

Text: String

Size: sm, md, lg, xl, xxl

Uppercase: Boolean



InsHeading

Text: String

Size: h1, h2, h3, h4, h5

Uppercase: Boolean



InsIcon

Icon: String

Source: String

Size: sm, md, lg, xl, xxl



InsTextInput

Value: String

Placeholder: String

On Change: Function



InsSpinner

Loading: Boolean

Molecules – Large Icon

InsLargelcon

- InsIcon
- Props
 - Icon: String
 - Size: lg
 - Source: ‘material-design’

Molecules – Value and Title Labels

InsValueLabel

- InsLabel
- Props
 - Size: lg
 - Text: String

InsTitleLabel

- InsLabel
- Props
 - Size: md
 - Text: String
 - Uppercase: true

Organisms –Dashboard Card

InsDashboardCard

- InsLargeIcon
- InsValueLabel
- InsTitleLabel
- Props
 - Icon: String
 - Background Color: String
 - Value: String
 - Text: String

Organisms – Project Dashboard

InsProjectDashboard

- InsDashboardCard (x4)
- InsSpinner
- Props
 - Values: Array
 - Loading: Boolean

Molecules – Subtitle

InsSubtitle

- InsHeader
- Props
 - Text: String
 - Size: h2

Molecules – Container

InsContainer

- InsSubTitle
- Props
 - Text: String
 - Header Background Color: String

Molecules – Filter Input

InsFilterInput

- InsTextInput
- Props
 - Value: String
 - Placeholder: ‘Filter Results’
 - On Change: Function

Molecules – Data Grid

InsDataGrid

- react-table
- Props
 - Values: Array
 - Headings: Array

Organisms – Project DataGrid

InsProjectDataGrid

- InsFilterInput
- InsDataGrid
- InsContainer
- Props
 - Values: Array
 - Headings: Array
 - Loading: Boolean
 - Text: String



All Projects

Filter results

Name	Overall	Budget	Resource	Schedule	Project Manager	Modified	Edit
alpha-chi	✗	⚠	✗	⚠	Maddie Pietrek	Jan 8, 2016 7:51:40 AM	
alpha-beta-omega	✗	✓	✗	✗	Laura Pietrek	Oct 19, 2015 1:59:14 PM	
alpha-omega	✗	✗	✗	⚠	Laura Pietrek	Jun 13, 2015 12:59:45 PM	
alpha-zeta	✗	✗	✓	✓	Laura Pietrek	Jun 13, 2015 11:10:06 AM	
alphas-violet	✗	⚠	✗	⚠	Pietrek	Jun 5, 2015 10:48:27 PM	
alpha-psi	✗	✗	✓	✗	Maddie Pietrek	Jun 5, 2015 10:32:54 PM	
Omega	✗	✓	✗	⚠	Steve Pietrek	Apr 14, 2015 12:44:37 PM	
zalir	✓	✓	✓	✓	Lenora Lula Owen	Apr 14, 2015 8:39:25 AM	
za	✓	✓	✓	✓	Harriett Elizabeth Fleming	Apr 14, 2015 8:39:25 AM	
valabiaza	✓	✓	✓	✓	Anne Emilie Mendoza	Apr 14, 2015 8:39:25 AM	

5 10 25 50

« 1 2 3 4 5 »

Page 1 of 11, of 107 entries

Component-Driven Development Benefits



Development

Faster development

Simpler maintenance

Reuse components

Better modeling of the system

Increase UI coverage



Testing

Better TDD

Test visually

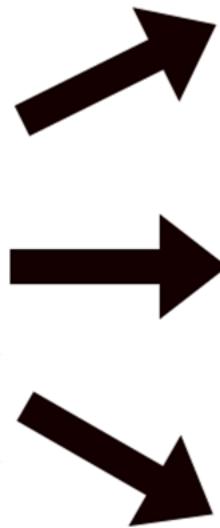
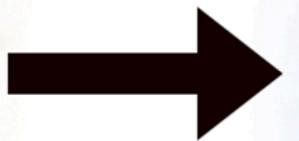


Collaboration

Parallelize development

Shorter learning curves

Targeted feedback



by @brad_frost

Storybook

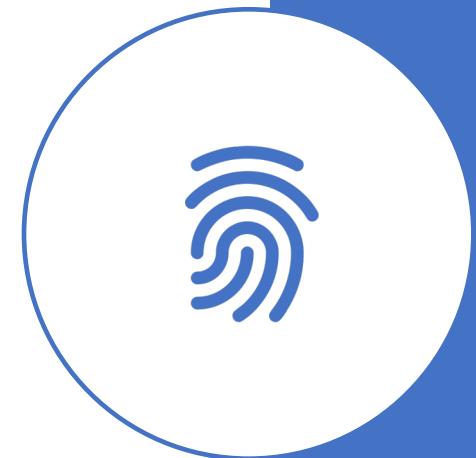
Build bulletproof UI components faster

Storybook is an open source tool for developing UI components in isolation for React, Vue, and Angular. It makes building stunning UIs organized and efficient.

[Get Started](#)[▶ Watch video](#)

Storybook

- Open source tool for developing UI components.
- Allow focused work on front end components, including business logic and tests, **in isolation**.
- Showcases the components in your app in various test “states”.
- A state is essentially a visual test case — a typical input to the component.
- Allows you to easily test edge cases.



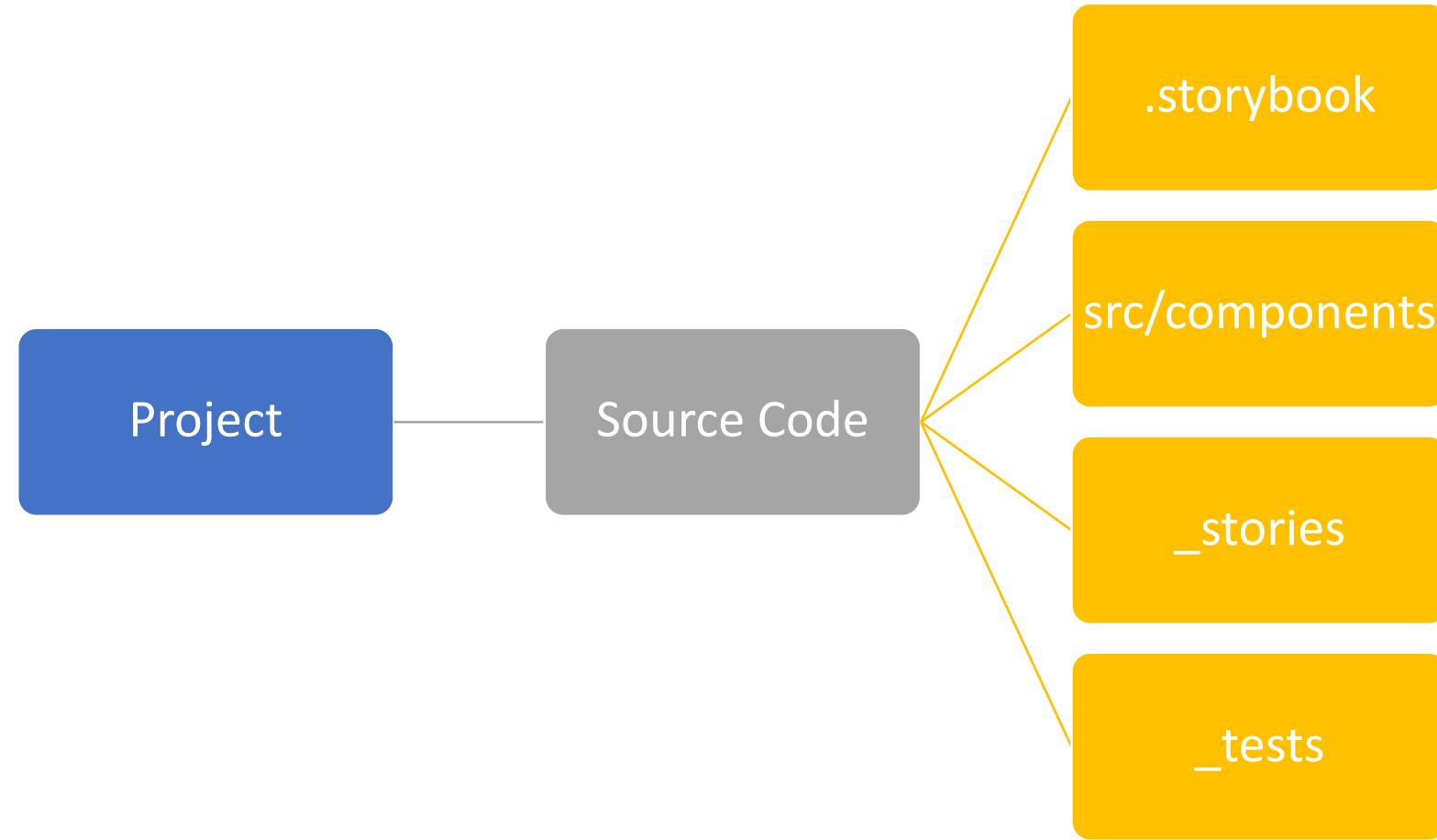
Install Storybook

```
# Create the application
npx create-react-app demo-react-storybook
cd demo-react-storybook

# Add Storybook
npx -p @storybook/cli sb init

# Run Storybook
yarn run storybook
```

Storybook Project Structure



Stories - storiesOf

```
// file: src/stories/index.js

import React from 'react';
import { storiesOf } from '@storybook/react';
import { action } from '@storybook/addon-actions';
import Button from '../components/Button';

storiesOf('Button', module)
  .add('with text', () => <Button onClick={action('clicked')}>Hello
Button</Button>)
  .add('with some emoji', () => (
    <Button onClick={action('clicked')}>
      <span role="img" aria-label="so cool">
        😎 😎 🤘 💯
      </span>
    </Button>
  ));

```

Stories - Component Story Format

```
import React from 'react';
import { action } from '@storybook/addon-actions';
import { Button } from '@storybook/react/demo';

export default {
  title: 'Button',
};

export const text = () => (
  <Button onClick={action('clicked')}>Hello Button</Button>
);

export const emoji = () => (
  <Button onClick={action('clicked')}>
    <span role="img" aria-label="so cool">
      😊 😎 🤘 💯
    </span>
  </Button>
);
```



Press "/" to search...



>Welcome

to Storybook

Button

Text

Emoji

Actions



clicked: (1) [Class]
↳ 0: Class

Storybook Addons

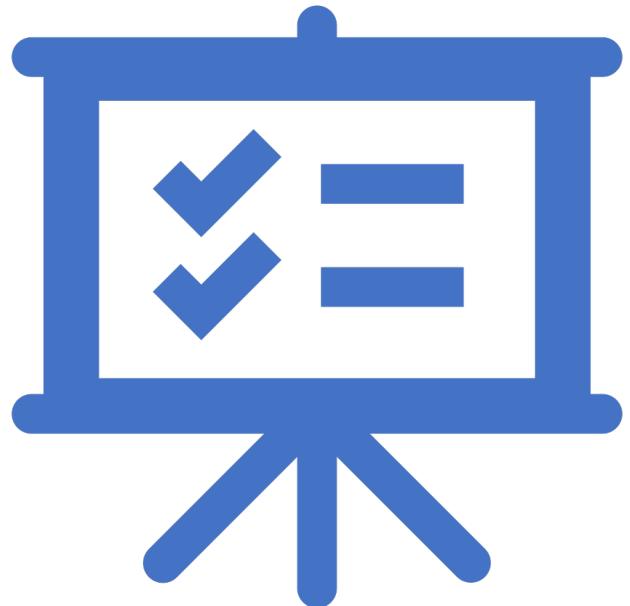
Actions

Knobs

Story Source

Accessibility

Viewport



Storybook Notes

- Can use Storybook without CDD
- Can use CDD without Storybook
- Focus on “presentational” components using mocked data
- React is first-class citizen
- Many examples use storiesOf and not CSF
- Categorize your components
 - title: “Molecules|InsAlertBadge”
- Use consistent naming conventions for your components
 - InsAlertBadge, InsAlertIcon, InsAlertLabelBox

Storybook References / Examples

- <https://storybook.js.org/>
- <https://www.learnstorybook.com/>
- <https://gumdrops.gumgum.com/>
- <https://github.com/gumgum/gumdrops>
- <https://storybook.netlify.com>
- <https://storybook.storefrontui.io/>

More on Storybook...



- Storybook: A Swiss Army Knife
- Hear how The Weather Channel has been using Storybook as a vital piece of their team's toolbox
- Cory Schneider
- Friday 14:30

THANK YOU!!!!

@spietrek

github.com/spietrek

