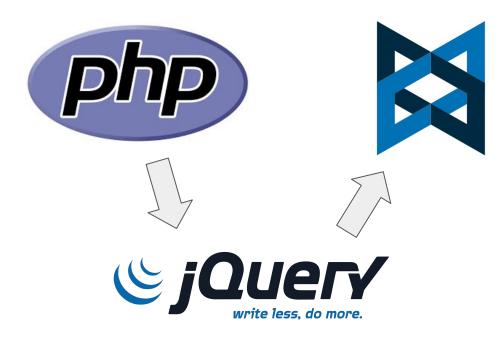
Component Driven Development with Storybook

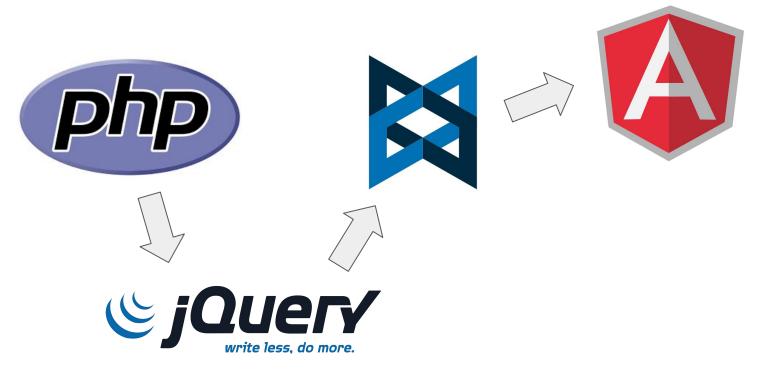
Chris Foster

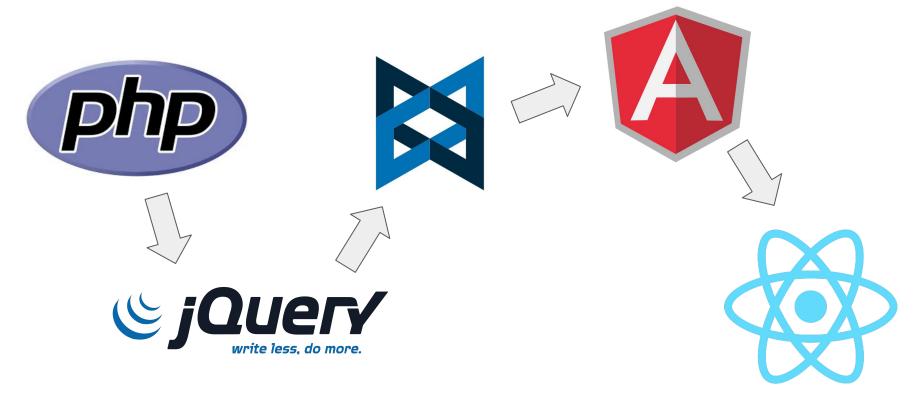






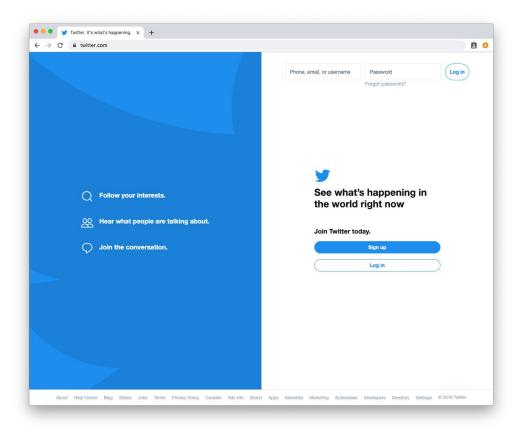






CDD: The backstory 11/ write less, do more.

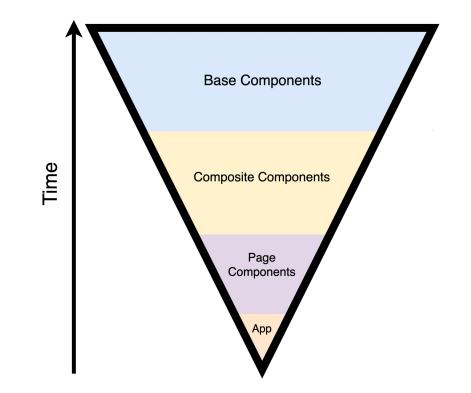
What are components?



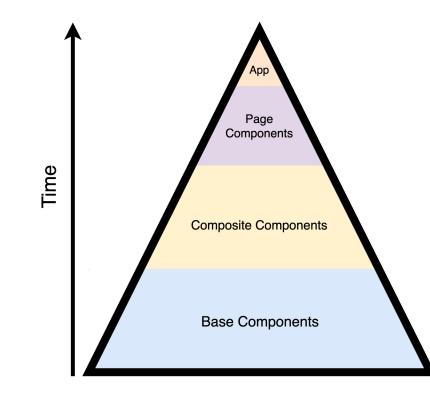
What are components?

	Follow your interests.		Phone, 4	email, or username Password Correction Password?	g in
	Follow your interests.	1	ſ	Y	
C				See what's happening in the world right now Join Twitter today.	
		J		Log in	

How do we normally build an app?



Component Driven Development



The CDD Workflow

- 1. Build each component
- 2. Create component library
- 3. Combine components

Component Driven Development

throma

Storybook is a rich tool for exploring and

building component libraries

It supports most popular

Javascript frameworks, and is

growing extensively in industry





мА	DE FOR
	React >
	React Native >
V	Vue >
A	Angular >
99	Ember >
E	HTML >
S	Svelte >
@	Mithril >
RIOT	Riot >

... **Taskbox** Build date picker * 🗹 QA dropdown * * Write schema for account avatar component Review feature spec Export logo Fix bug in input error state Draft monthly blog post to customers Export projects to drive

...

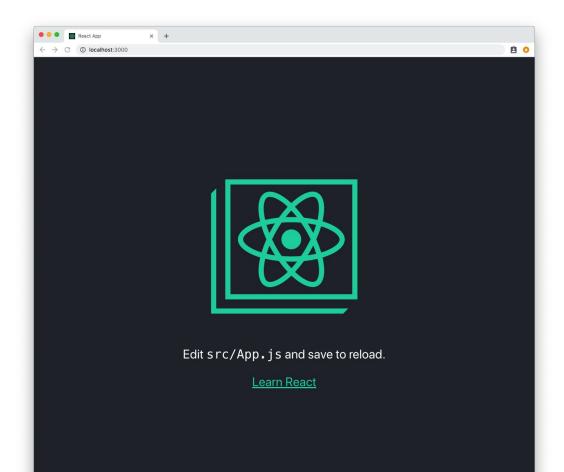
Taskbox

Build date picker	*
QA dropdown	*
Write schema for account avatar component	*
Review feature spec	
Export logo	
Fix bug in input error state	
Draft monthly blog post to customers	
Export projects to drive	*

Let's get started!

Create our application: npx create-react-app demo cd demo

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



npm start

	~/workspace/storybook-talk/storybook-demo - npm test
PASS shc/A	pp.test.js
✓ renders v	without crashing (37ms)
Test Suites.	1 passed, 1 total
	1 passed, 1 total
and the second standard in the statement of the	
Snapshots:	
Time:	2.479s
Ran all test	suites.
Watch Usage:	Press w to show more.
nateri obager	

npm test

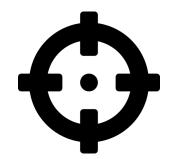
- → C ③ localhost	× + :9009/2path=/story/welcometo-storybook		Ĥ	0
S Storybook S Storybook Press 7/* to search Welcome to Storybook B Utton	ୟ ର ସ୍ Welcome to storybook This is a UI component dev environment for your app. We've added some basic stories inside the src/stories directory. A story is a single state of one or more UI components. You can have as many stories as you want. (Basically a story is like a visual test case.) See these sample stories for a component called Button . Just like that, you can add your own components as stories.	×	Ċ	
	You can also edit those components and see changes right away. (Try editing the <u>Button</u> stories located at <u>src/stories/index.js</u> .) Usually we create stories with smaller UI components in the app. Have a look at the <u>Writing Stories</u> section in our documentation. NOTE: Have a look at the <u>.storybook/webpack.config.js</u> to add webpack loaders and plugins you are using in this project.			
	Actions			8

npm run storybook

Demo: Task Component & Story

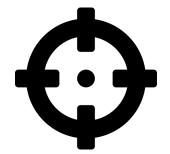
Benefits of Component Driven Development

Benefit One: Focus Your Development



Benefit One: Focus Your Development

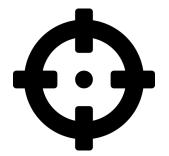
Manipulating your whole app is a waste of time



Certain states are difficult to achieve in development

Benefit One: Focus Your Development

Manipulating your whole app is a waste of time



Certain states are difficult to achieve in development

CDD isolates the component you're really building

Benefit Two: Increase UI Coverage



Benefit Two: Increase UI Coverage

Traditional development can leave state "blind spots"



Benefit Two: Increase UI Coverage

Traditional development can leave state "blind spots"

CDD encourages enumerating all component states

You can confidently put new components into production



Benefit Three: Receive Targeted Feedback



Benefit Three: Receive Targeted Feedback

Developers can deploy their Storybook easily and rapidly



Benefit Three: Receive Targeted Feedback

Developers can deploy their Storybook easily and rapidly

Sharing a proposed UI change is as easy as a URL

Focus conversations on one single component at a time



Benefit Four: Build a component library



Benefit Four: Build a component library

CDD encourages high quality, robust components



Better components are more reusable components

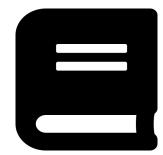
Benefit Four: Build a component library

CDD encourages high quality, robust components



Supercharge code reuse within your organization

Use your stories to generate detailed documentation



Benefit Five: Parallelize development



Benefit Five: Parallelize development

Split work across components -- not pages



Benefit Five: Parallelize development

Split work across components -- not pages

Mocks. Never be blocked by the backend team again!



Benefit Five: Parallelize development

Split work across components -- not pages

Mocks. Never be blocked by the backend team again!

Provide clean, complete iterations to stakeholders earlier



Benefit Six: Test Visually



Benefit Six: Test Visually

Easily validate your entire user interface at a glance



Benefit Six: Test Visually

Easily validate your entire user interface at a glance

Programmatically validate previously difficult UI code

Storybook integrates with powerful automated testing plugins

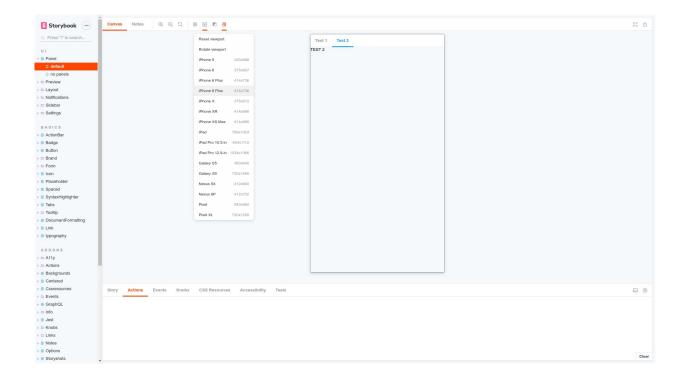


Exploring the ecosystem

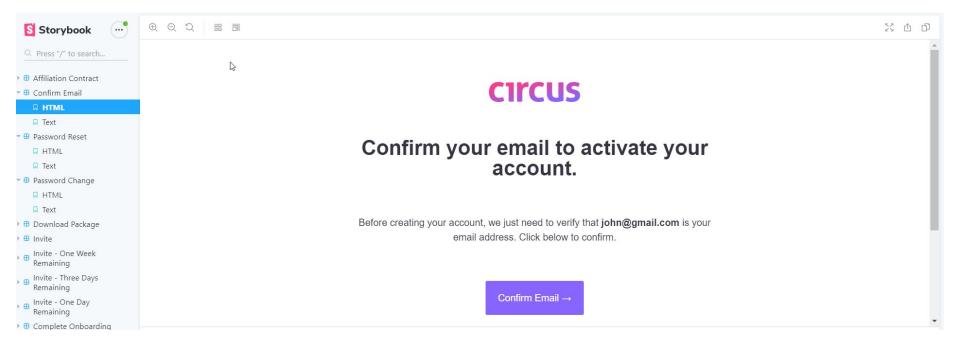
● ● ● P React Storybook ← → C ● https://kadira-sam	× \	Disabled=true&knob-Style=%7B"backgrou	ndColor"%3A"%23FFF"%2C"border 🏠
REACT STORYBOOK %	Hello Button	KNOBS DISABLED	0
Storybook Knobs with a button with some text		STYLE	<pre>{ "backgroundColor": "#FFF", "border%: "lpx solid #DDD", "borderRadius": 2, "outline": 0, "fontSize": 15, "cursor": "pointer" }</pre>
as dynamic variables		LABEL	Helio Button

Knobs

Responsive Design



Storybook your email templates!



REACT STORYBOOK %				
Header	\sim			
Footer	Item One			
Todoltem				
MainSection	1 item left All Active Completed Clear completed			
some completed				
all completed	ACTION LOGGER SPECIFICATIONS			
	SHOULD DISPLAY TWO TODOS			
	EXPECTED 1 TO EQUAL 2			
	SHOULD INDICATE THAT ONLY ONE ITEM IS LEFT			

TDD Integration

Story Shots

Button ✓ default view

x link button

- Snapshot

+ Current story

<button
onClick={[Function anonymous]}
style={
 Object {
 "backgroundColor": "#FFFFFF",
 "border": "1px solid #eee",
 "borderRadius": 3,
 "cursor": "pointer",
 "fontSize": 15,
 "padding": "3px 10px"
 }
}>
Next Story
Go to Next Story
</button>

✓ some emojies as the text
✓ custom styles

Test summary

- > 4 stories tested.
- > 3/4 stories match with snapshots.
- > 1/4 differ from snapshots

Easy visual regression checks



Built-in Auto-documentation with DocsPage

Summary

- Score with the second s
- Storybook is a feature-rich component explorer

Combined, they're a new, better way to build frontend apps!

Thanks!

Source code: https://github.com/chrisfosterelli/cdd-with-storybook

Learn Storybook: https://www.learnstorybook.com/

Do you use Storybook right now, or want to? Let's chat!

https://twostoryrobot.com

@chrisfosterelli

Sources

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https://addyosmani.com/first/

https://fontawesome.com

https://github.com/mthuret/storybook-addon-specifications

https://github.com/storybookjs/storybook/tree/master/addons/knobs