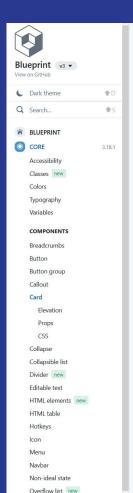
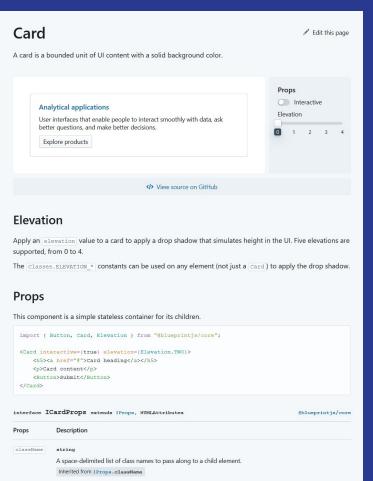
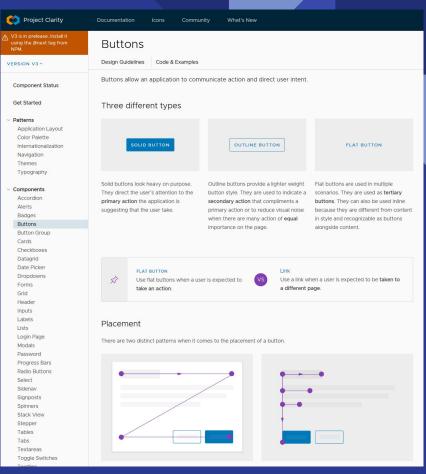
React In A Design Process

Chris Williams
Senior Software Engineer, Direct Supply
github.com/chriswxyz

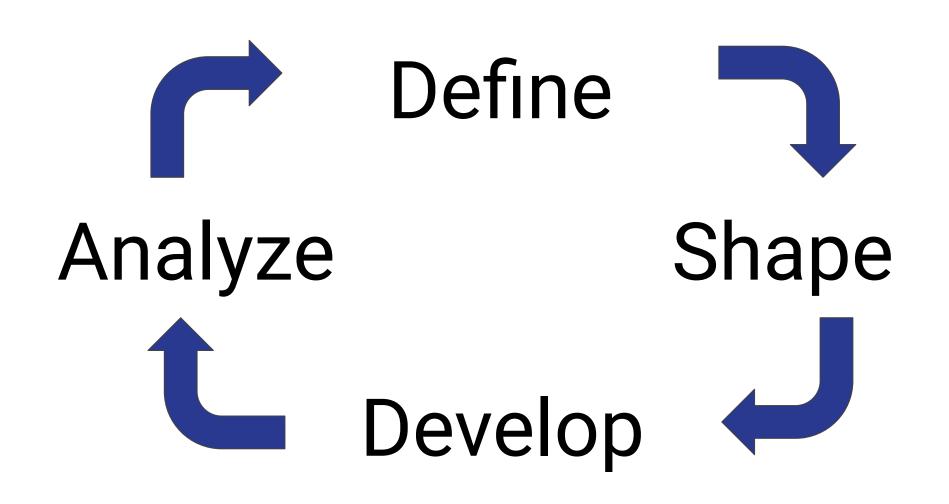


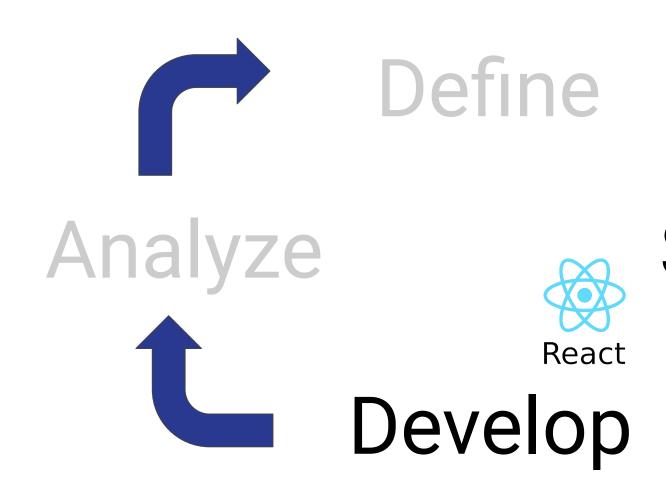


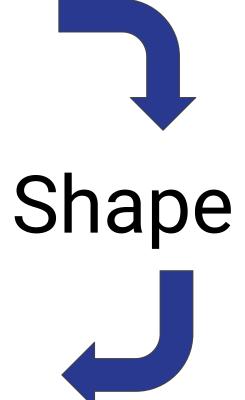












Shaping

An interactive, hands-on collaboration for devs and users

Storybook

Welcome to the OGM3 Prototype Storybook.

This storybook provides a place to experiment with new OGM3 experiences.

Copy the example.proto.tsx file from the _prototypes folder to get started.

Usability Tests



2. Test Facilitator Date of Test Session: 2019-07-31 Describe the scenario to your first user, and let the magic happen. Feature Name: Activity Stream + Descriptions "Lets say you receive an email from a customer asking you to BLAH. Where would you start?" Tip - Get Them To Think Out Loud customer. User Pains relieved by this Feature: Forgetting why things were changed or deleted. If the user asks what they are supposed to do, encourage them to think out loud instead of guidi them to your own answer. Test Scenarios: "Am I supposed to click on BLAH?" 1. You want to leave the contact emails for YourNet in an obvious location, even for people who don't normally manage this customer. Responses: Doug: doug@yournet.com Tom: tom@yournet.com "What do you think will happen when you click on BLAH?" "Go ahead and try clicking on BLAH."

- "Tell me more."

Usability Session Worksheet - Activity Stream

User Jobs enabled by this Feature: Working collaboratively with your analyst team to maintain a

- 2. Doug from "YourNet Care Systems" emailed you and wanted to know why his facilities are suddenly able to purchase Pumpkin Sauce. He says they started being able to purchase it 2 days ago.

Use the tools you're comfortable with to drive fast iterations with direct evidence from users

Develop

Making non-UI-wizards successful and happy

TypeScript

```
return <Page title='Verify Onboarding' subtitle={subtitle} breadcrumbs={crumbs}>
    <PageSection title='Verify Locations'>
        <DataTable
            columns={columns} <sup>I</sup>
            data={locationValidation}
            itemId=\{x \Rightarrow x.id\}
            expandContent=\{x \Rightarrow \langle ValidationDetails row = \{x\} / \}
            onExpand={noop}
            (JSX attribute) actions?: Reac \times
    PageSe /> checked
                                                  t.ReactNode
```

TypeScript

- Crucial for work as a team
- Communicate semantics and intent
- Bad data states fail to compile
- Java/C# devs feel a bit more at home

```
function StatusIcon(props: {
    row: Duck.LocationVerification;
}): JSX.Element
Type '{ rwo: LocationVerification; }' is
not assignable to type
'IntrinsicAttributes & { row:
LocationVerification; }'.
  Property 'rwo' does not exist on type
'IntrinsicAttributes & { row:
LocationVerification; }'. ts(2322)
Peek Problem No quick fixes available
<StatusIcon rwo={x} />
```

Give Real Advice

- Real advice is straightforward and actionable
- Give devs concrete examples, not just theory
- Help them understand what NOT to do

File Organization



Folder-by-feature

Features are organized by placing the components, hubs, ducks, tests, and stories together in one folder. This helps a developer quickly locate and identify related code. This is the opposite of folderby-type, which separates code files by technical category, and leads to jumping around trying to find a file.

Filenames

Filenames have a segment that indicate what kind of file they are (when it's not obvious from the extension).

Kind	File
Component	my-component.tsx
Controller	my-feature.page.tsx
Duck	my-feature.duck.ts
Hub	my-feature.hub.ts
Test	my-feature.spec.ts

Filenames are lower-kebab-cased.

Less is More

```
return <button style={{backgroundColor: '???'}}>Hello</button>;
 return <MyButton text='Hello' color='|'/>;
                                           ≡ danger
                                           ≡ primary
                                           ≡ secondary
                                           ≡ warning
```

Less is More

```
return <div style={{padding: '1.68rem'}}>Hello</div>;
```

```
return <PageSection density=''>Hello</PageSection>;

□ compact
□ normal
□ touch
```

Functional CSS

- Past experience and results
 - from developers that don't like UI
 - basics of CSS
 - Is not "magical" or "powerful"
- You will write 99-100% less CSS
- Best used in a component-based system
- Easy to migrate bits and pieces

const btn1 = <button className='home-page-cta'>Semantic</button>;
const btn2 = <button className='bg-blue border-pink padding-3 rounded'>Functional</button>;

Functional CSS

	CSS Written	Reuse
BEM	High	Low
Framework	Medium	Medium
f(css)	Low	High

Storybook

Welcome to the OGM3 Storybook 🥕

This storybook is part component catalog, part visual development tool, part manual regression test, and percent awesome.

Component Catalog

Browse through existing components in OGM3 and see them in various states of action!

X Visual Development

Copy a page or component story out of the _boilerplate folder and start working on new UI!

Regression Test

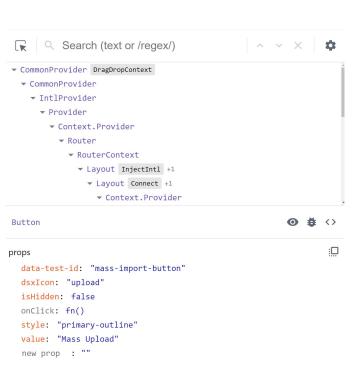
Changes to components are easier to verify since data can be experimented with, without running the site!

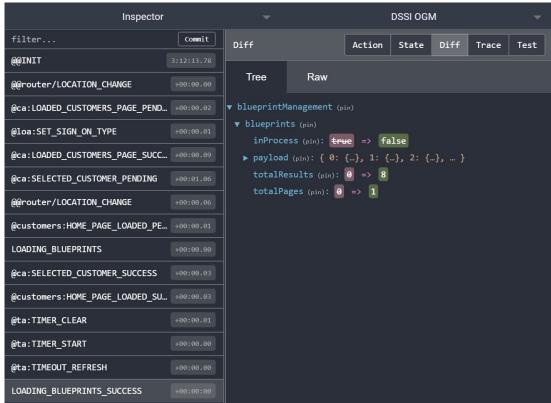
Component-First Design

- Build a React component in Storybook
- Mock out the interaction with React.state
- Usability test
- Component Props ~= Your API



Debugging - View, or State?







A "duck" is a file that contains

- a reducer
- actions that the reducer can handle
- functions that create the actions
- the state that the reducer operates on
- customers.duck.ts

Explicit, useful tools that improve a dev's life

- Types
- Small, clear CSS
- Play and experiment with Uls
- Components drive API design
- Spatial awareness

Question Time!
Or, ask me later:
chris.williams@directsupply.com/github.com/chriswxyz