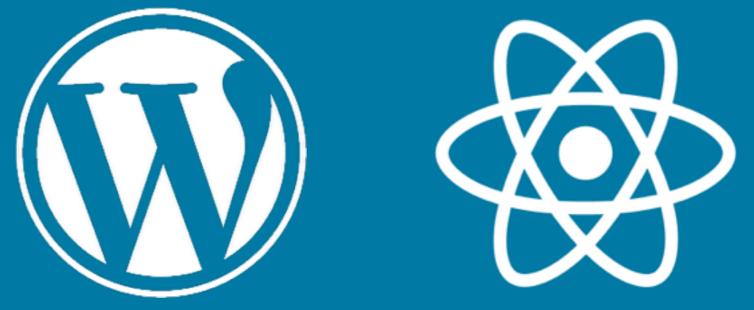
MoroPress

+ React

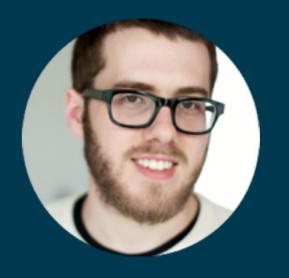






Gregory Cornelius

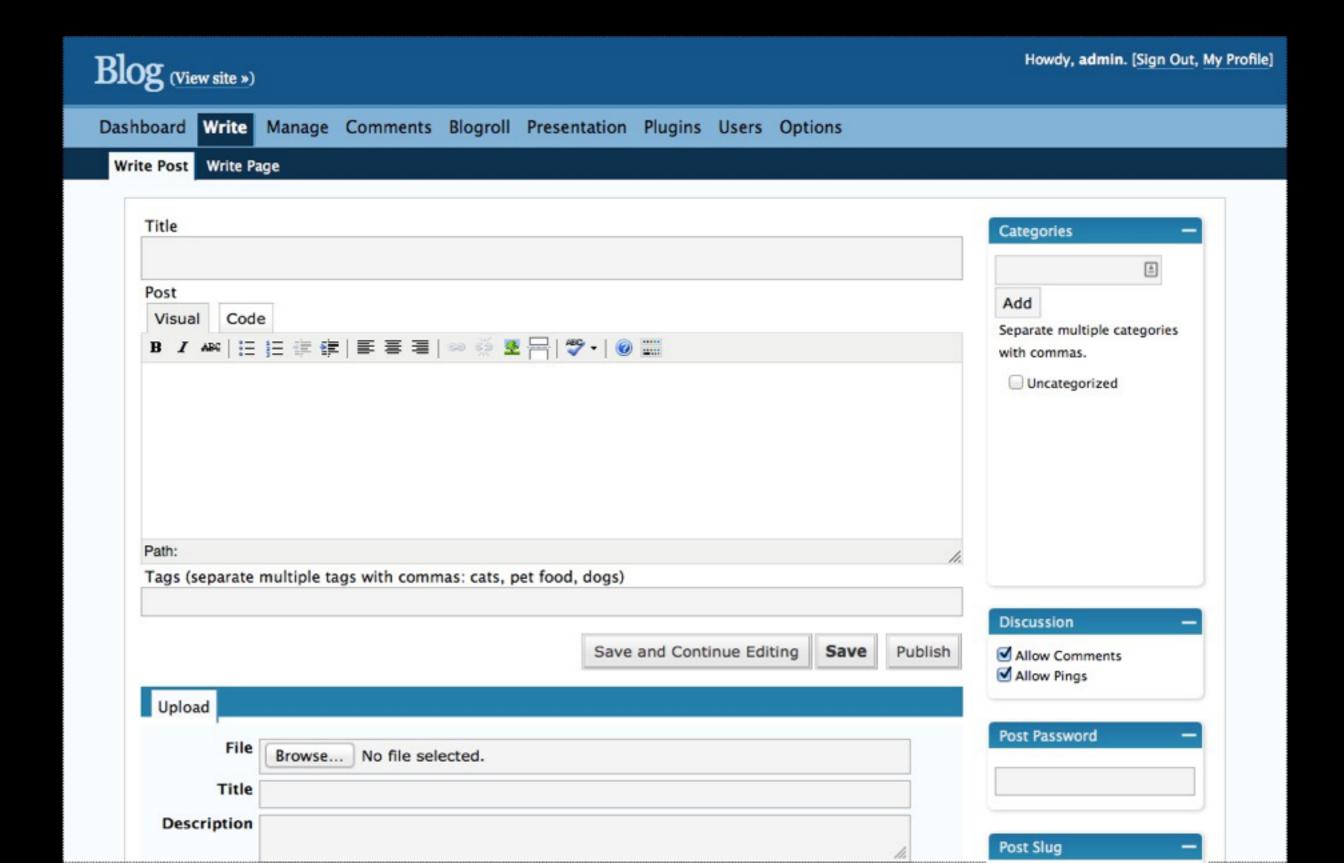
@gcorne



Matías Ventura @matias_ventura

What is the future of WP Admin?

WordPress 2.0 "Duke" (2005)



HTML5

pushState

localStorage

Animations

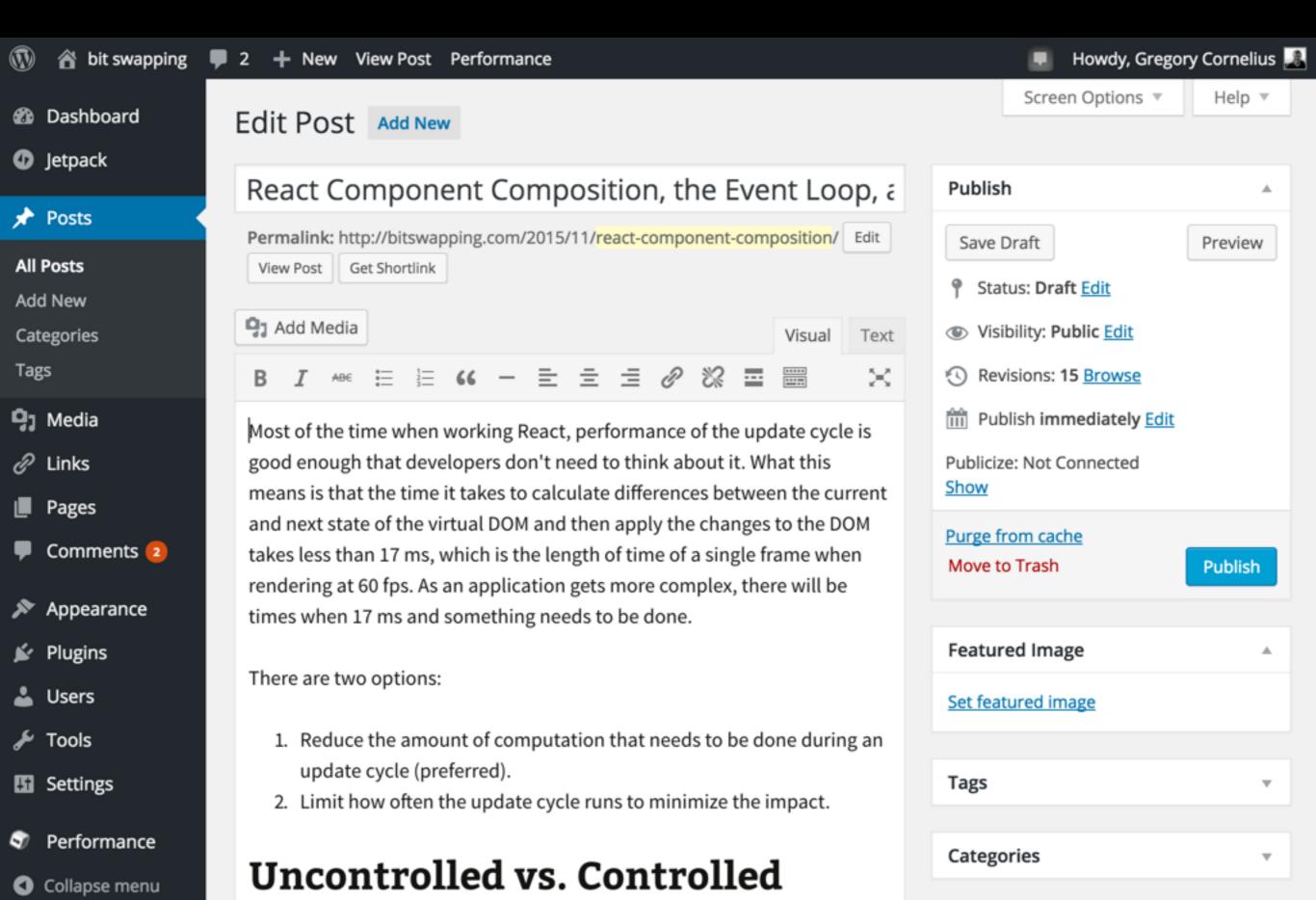


"The UI helps people understand and interact with the content, but never competes with it."

iOS Human Interface Guidelines

Speed

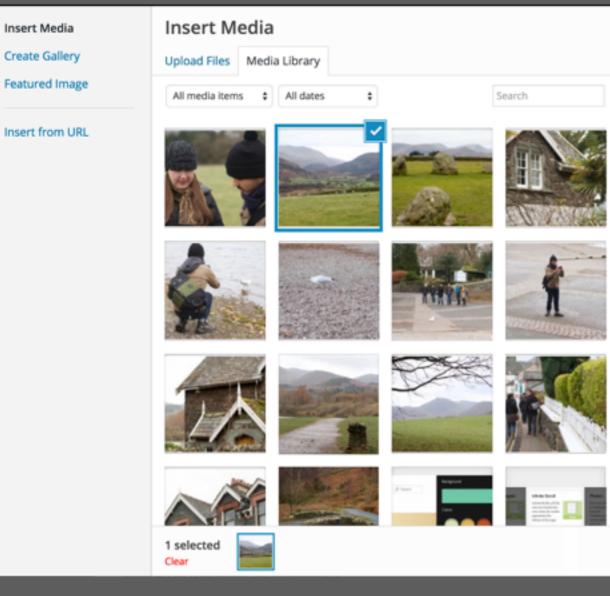
WordPress 4.3.1 "Billie" (2015)





"...in the past WP hadn't done a good job of building the real-time experience that we as modern web customers have come to expect."

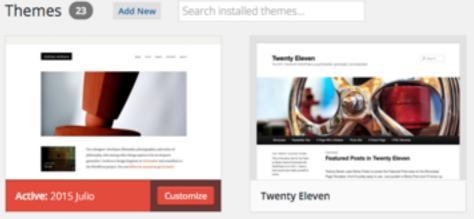
Om Malik

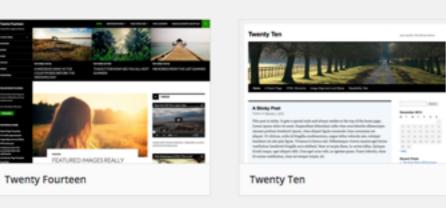


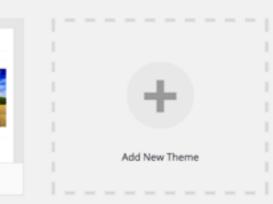


53 O

Twenty Twelve

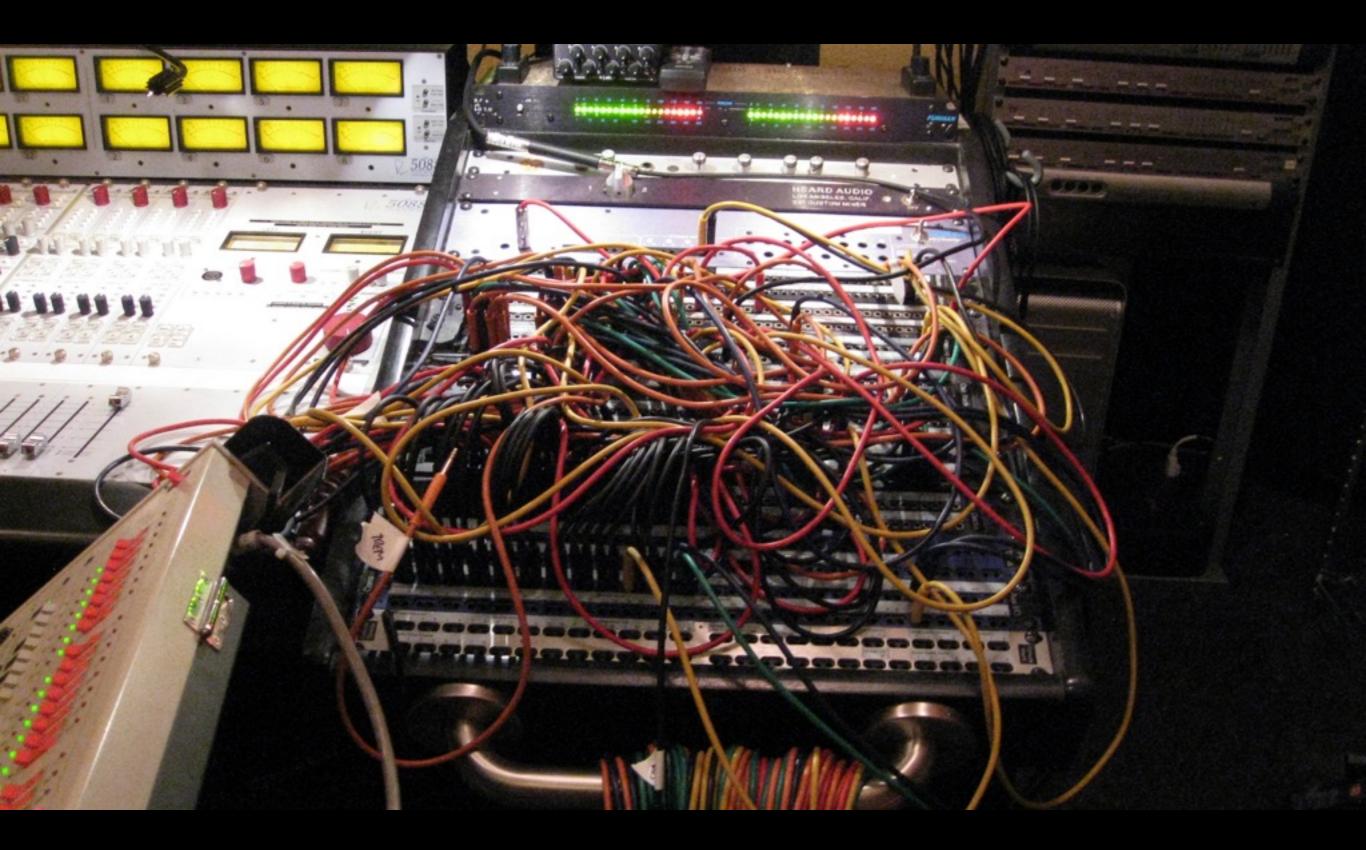








Twenty Thirteen





A declarative view layer written in pure **JavaScript** that **simplifies** the process of building complex UIs.



NETFLIX

YAHO!



HubSpöt



WordPress.com

{ Calypso }

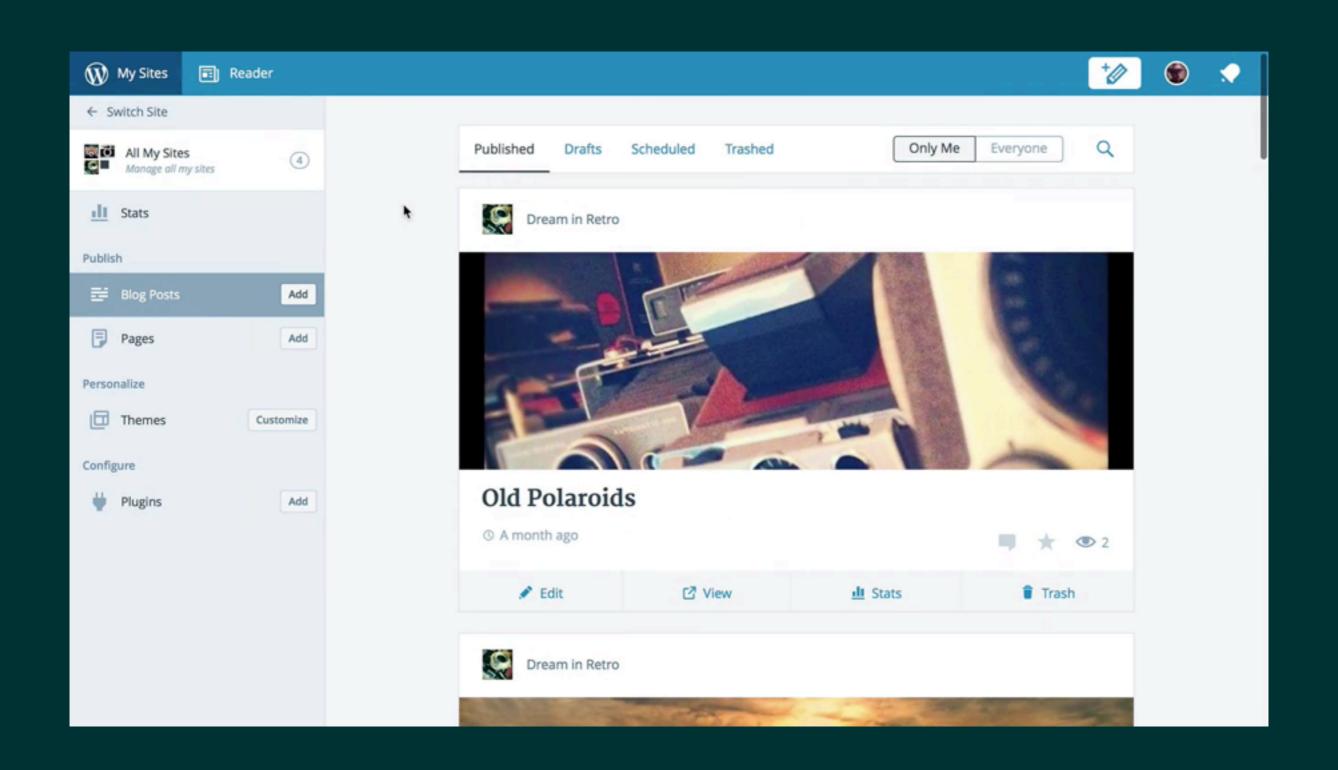
developer.wordpress.com/calypso



Single-Page App

Written in JavaScript

Driven by WP.com REST API











By David Jackson



Traveling for the Holidays

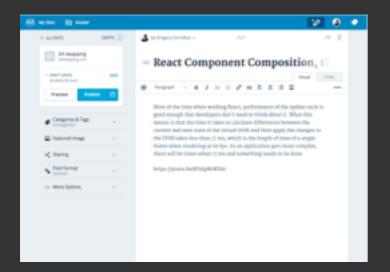
Holidays are around the corner, and with them come plans for travel. Most years I am blessed to not have to go out of the safety of my own home (I host my family for holiday dinners) but this year I decided to do somethi...

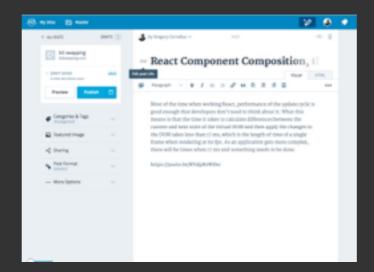
O 2 years ago

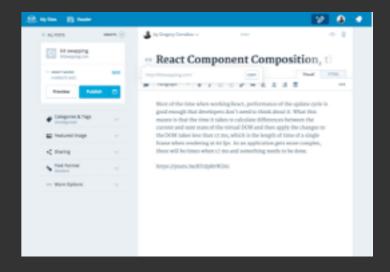


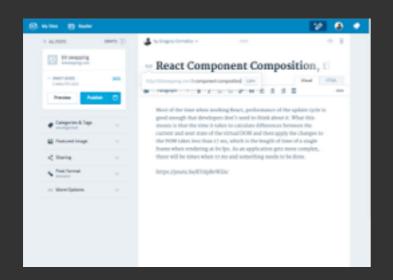


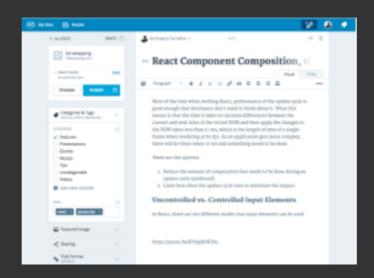


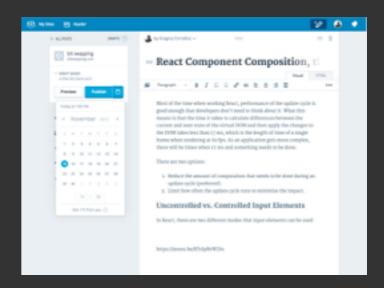


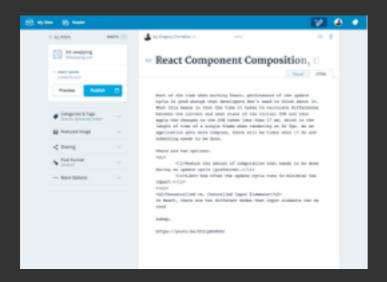


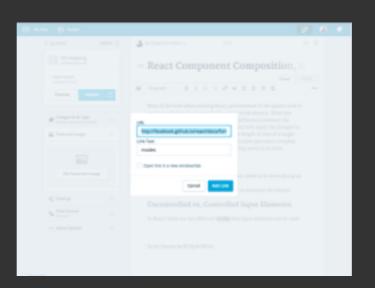




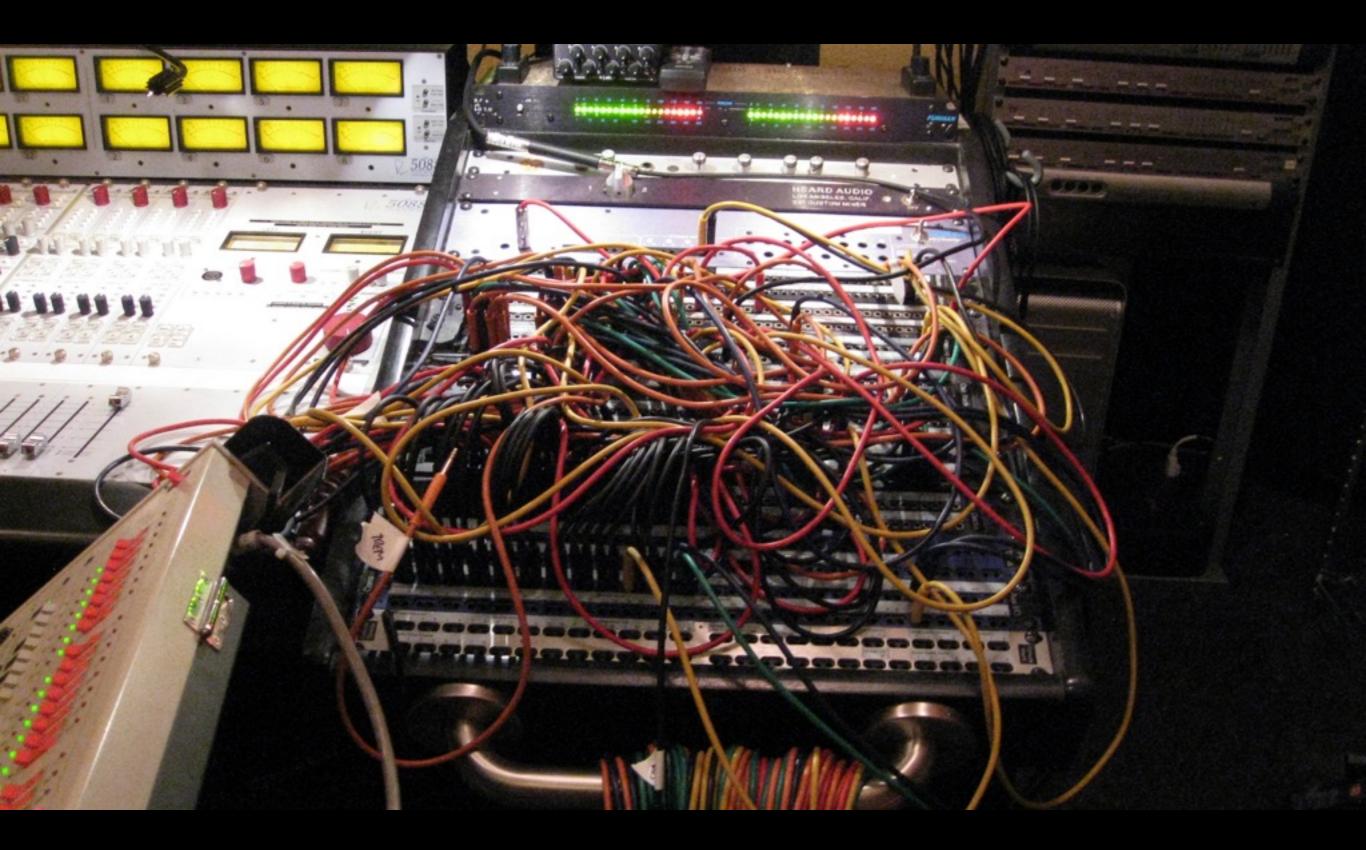








Editor UI States



React key features

- Small API that is easy to learn.
- No need for a separate template language. Embrace JavaScript.
- Events are bound as element properties which limits need for DOM traversal.
- Composition of components is simple and first-class.

Just Render()

React will be smart about updating the DOM.

```
const DOMNode = document.getElementByID( 'hello-container' );
function HelloMessage( props ) {
  return React.DOM.h3( null, props.name );
ReactDOM.render(
  React.createElement( HelloMessage, { name: 'Hello, World!' } ),
 DOMNode
// DOMNode.innerHTML = '<h3>Hello, World!</h3>'
ReactDOM.render(
  React.createElement( HelloMessage, { name: 'Hello, World!' } ),
 DOMNode
// no DOM operations
ReactDOM.render(
 React.createElement( HelloMessage, { name: 'Howdy, Matias' } ),
 DOMNode
// DOMNode.firstChild.textContent = 'Howdy, Matias';
see http://codepen.io/gcorne/pen/meNWPP
```

{ functions > template language }

```
const HelloComponent = React.createClass({
  render() {
    return React.DOM.div(
        { className: 'hello' },
        React.DOM.h3( null, 'Hello, World!' )
    );
  }
});

ReactDOM.render(
  React.createElement( HelloComponent ),
  document.getElementById( 'hello-container' )
);
```

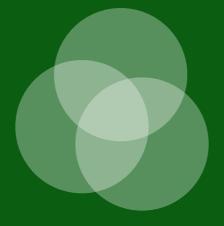
Increase readability via the JSX syntax extension

Compiling JSX



```
export default React.createClass( {
  getInitialState() {
    return {
      showPreview: false
  showPreview() {
    this.setState( { showPreview: true } );
  },
  render() {
    return (
      <div className="post">
        { this.state.showPreview &&
          <Pre><Preview post={ post } />
        <span className="post__date">{ this.props.post.date }</span>
        <h4 className="post__title">
          <a className="post__title-link" href={ this.props.post.URL }>
            { this.post.title | | '(no title)' }
          </a>
        </h4>
        <button onClick={ this.showPreview }>Preview</button>
      </div>
```

Why do components matter?



Progressive Enhancement

JavaScript (feature A) JavaScript (feature C) JavaScript (feature D) (feature E)

CSS

HTML (form)

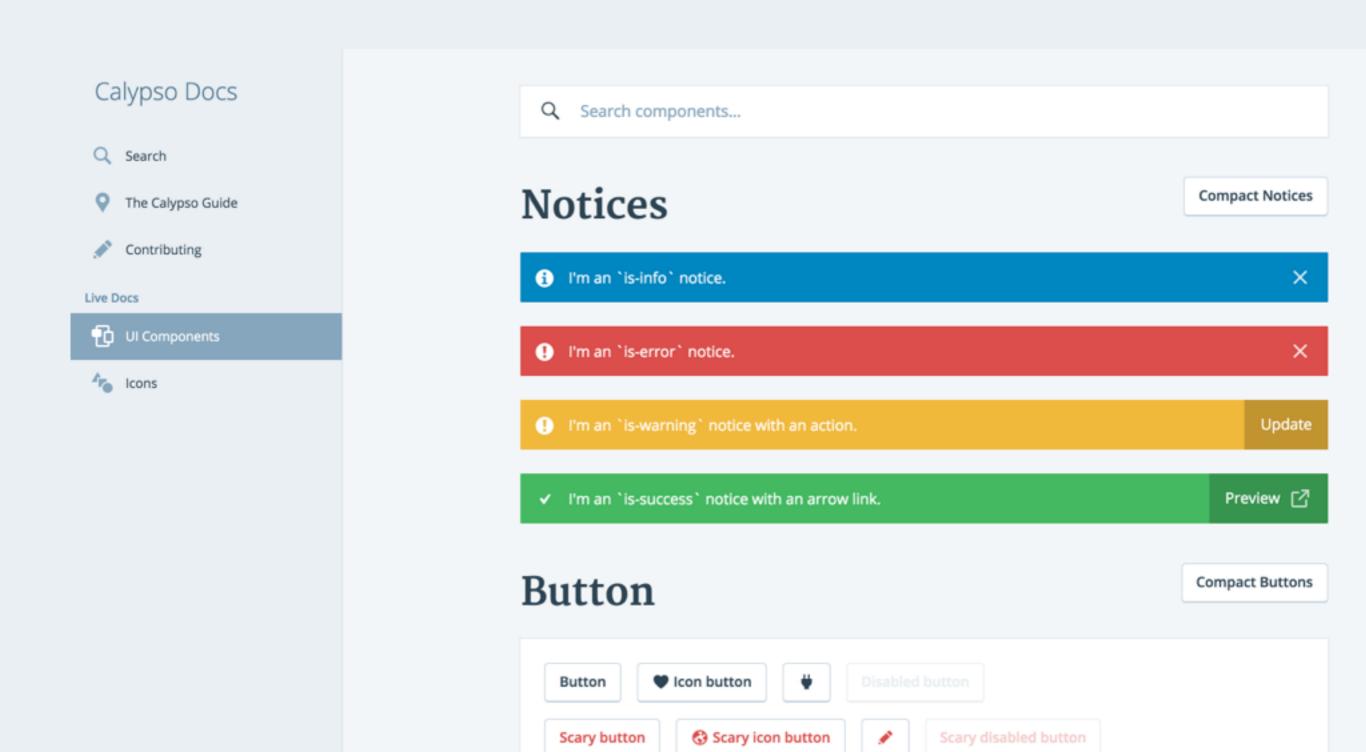
Components

Component Component Component Component (feature D) (feature A) (feature B) (feature C) JavaScript JavaScript JavaScript JavaScript CSS CSS CSS CSS HTML HTML HTML HTML

JSX + Sass

Branch: master ▼ wp-calypso / clie	ent / components /
accordion	Initial commit of wp-calypso
add-new-button	Initial commit of wp-calypso
author-selector	Initial commit of wp-calypso
bulk-select	fix "failed propType" warning for Bulk
button-group	Initial commit of wp-calypso
button	Initial commit of wp-calypso
n chart	Initial commit of wp-calypso
comment-button	Initial commit of wp-calypso
count	Initial commit of wp-calypso
ata data	Purchases: Add `CancelPurchasePla
ate-picker	Initial commit of wp-calypso
in dialog	Framework: Use classnames in place
domains	Initial commit of wp-calypso
drop-zone	Initial commit of wp-calypso
email-verification	Initial commit of wp-calypso
emojify	Initial commit of wp-calypso
external-link	fix unique key warning for ExternalLin
in flag	Initial commit of wp-calypso

Live components gallery



Composition

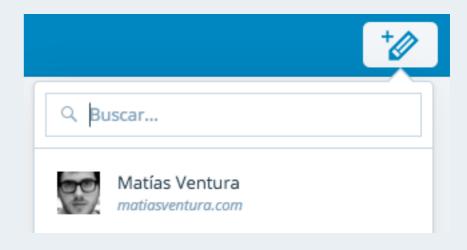
<Site>



<Sidebar>



<SitePopover>



<EditorGroundControl>



Components begin to define app level **semantics**.

NATIVE HTML

<header>

APP

<Site>

Defines a language that transcends the medium, one which can be applied to **mobile**, the **web**, and **desktop**.

This is just the beginning...

github.com/Automattic/wp-calypso

Using React in Plugins & Themes

{ WP React Boilerplate }

github.com/gcorne/wp-react-boilerplate

Thoughts

- Library of WP UI components?
- A new WP Admin UI powered by components?
- React Native WordPress apps that are pluggable and accessible to more contributors?
- How do plugins look when they can be API focused, client focused, or both?

do()

- * Install Calypso and play around with it.
- If you consider yourself a **PHP** developer that knows jQuery, consider investing in learning more **JavaScript**.
- Try dipping your toes in the water using **React** for something.
- * Take a look at React Native.

Thank you.

Gregory Cornelius

@gcorne

Matías Ventura

@matias_ventura