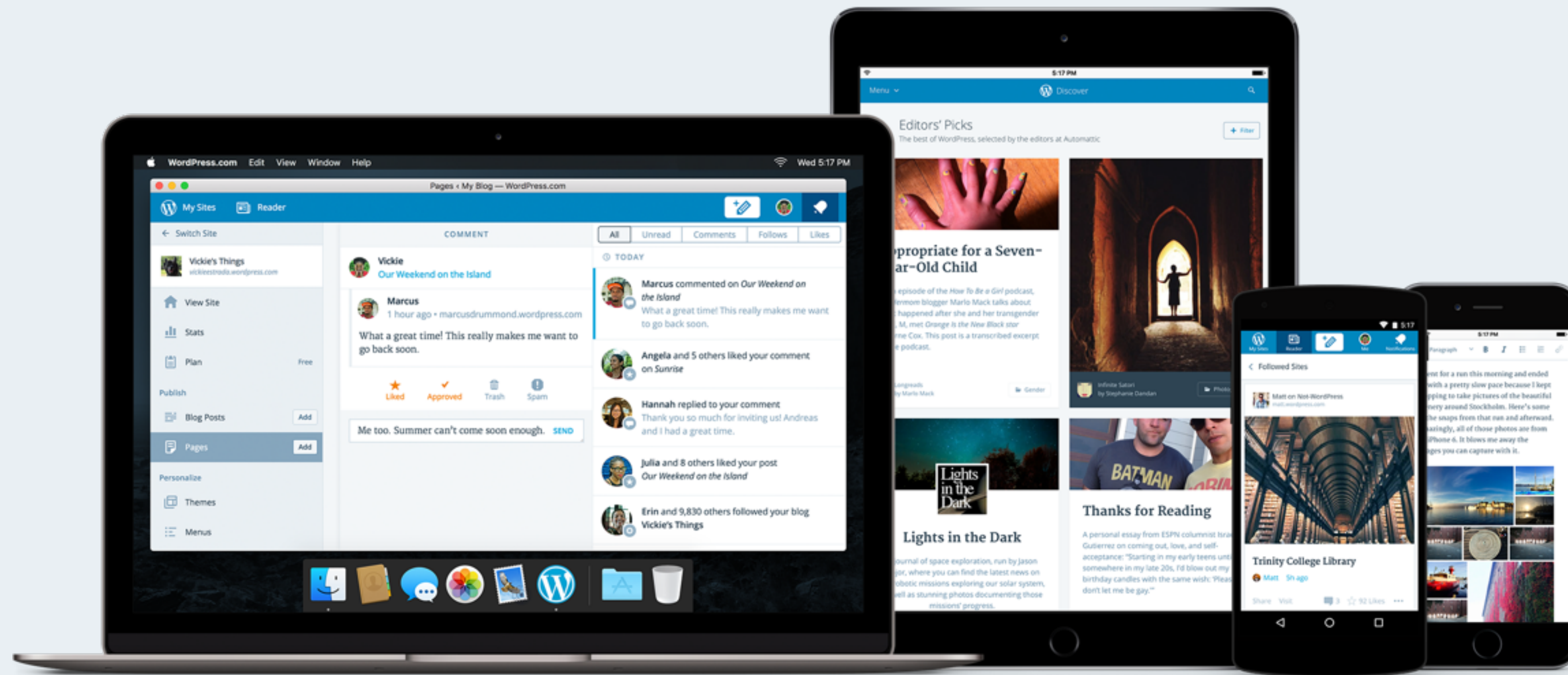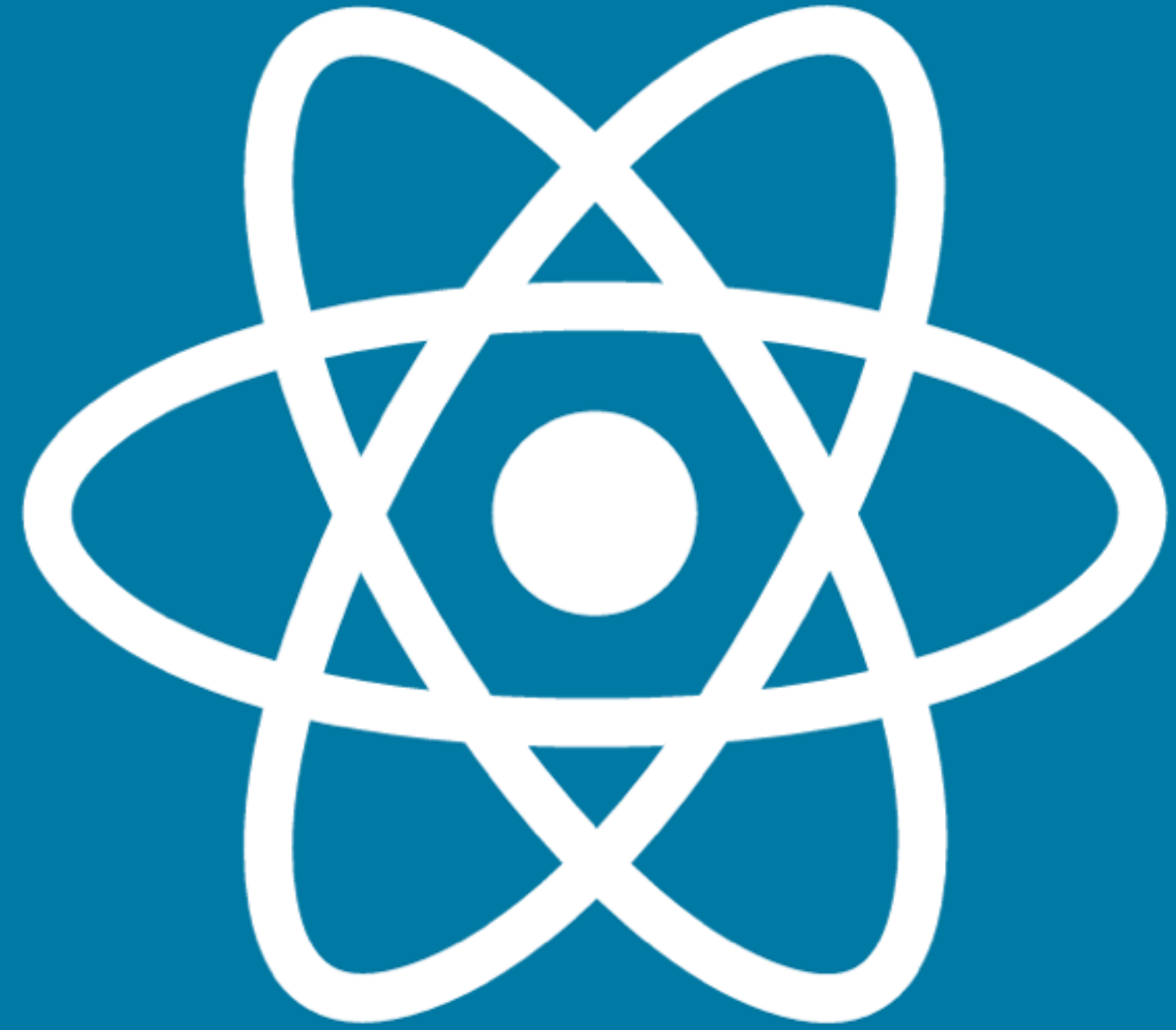# A 👁 into Calypso

WordCamp EU 2016, Vienna

Matías Ventura

@matias_ventura

matiasventura.com

WordPress.com

API ⟷ Client

"A lot of people thought we should keep this proprietary, but throughout my life I've learned that the more you give away, the more you get back."

Matt Mullenweg

Single-Page App

Written in JavaScript

Driven by WP.com REST API

And some of WP-API

Speed
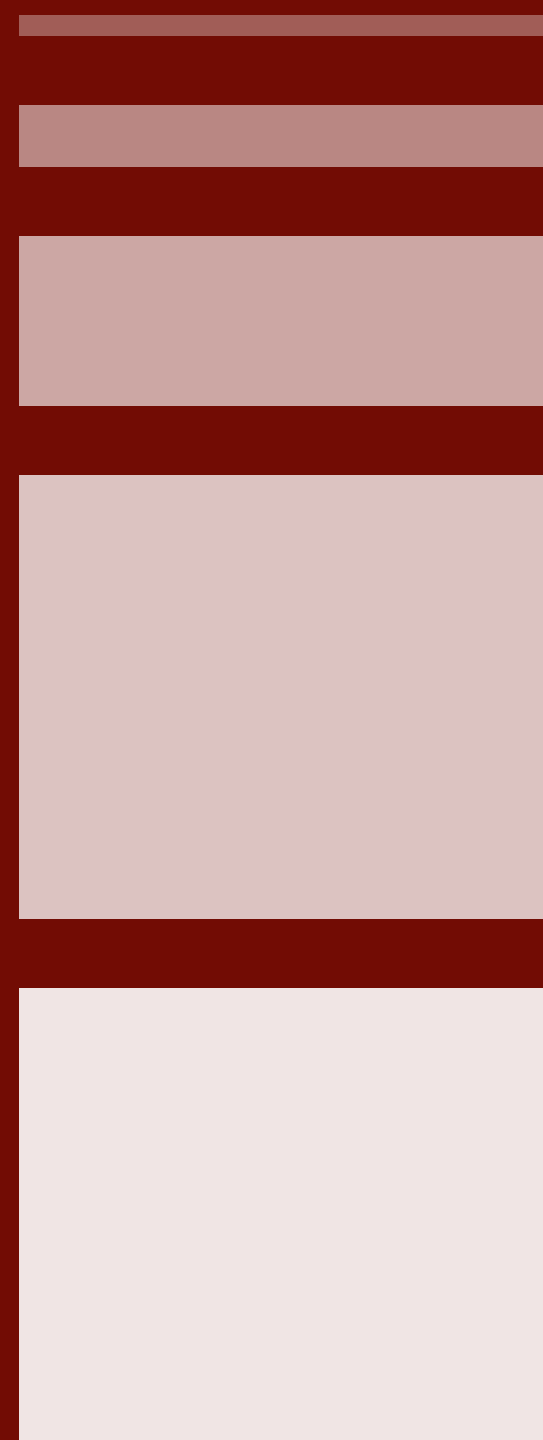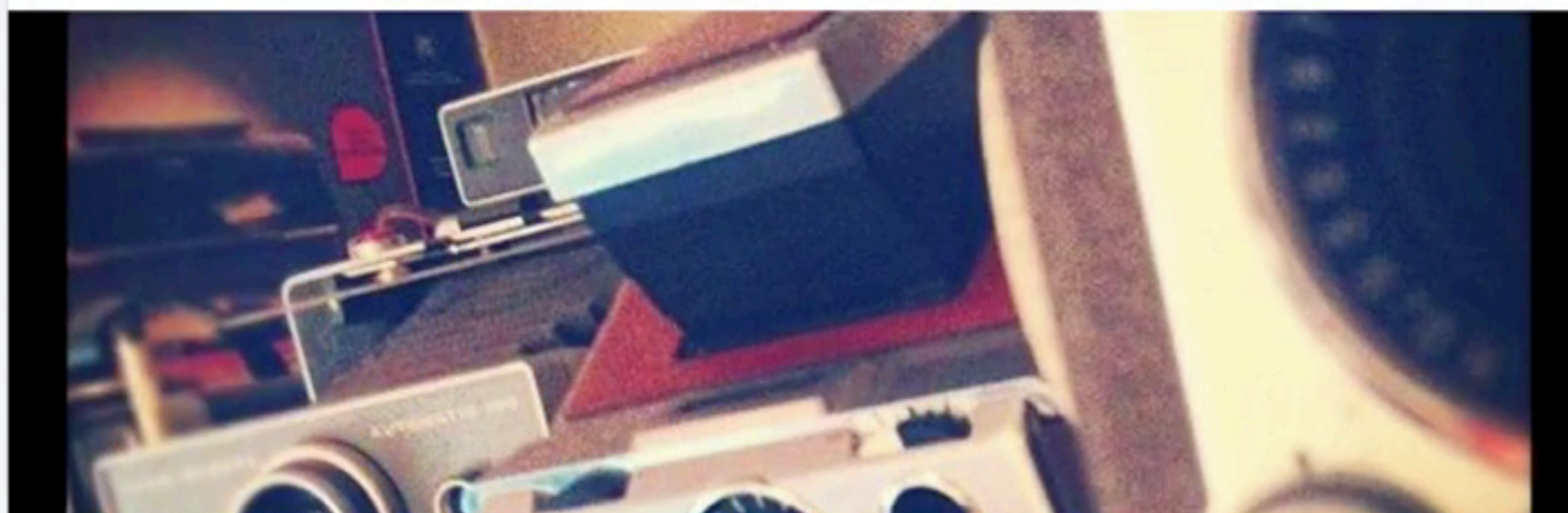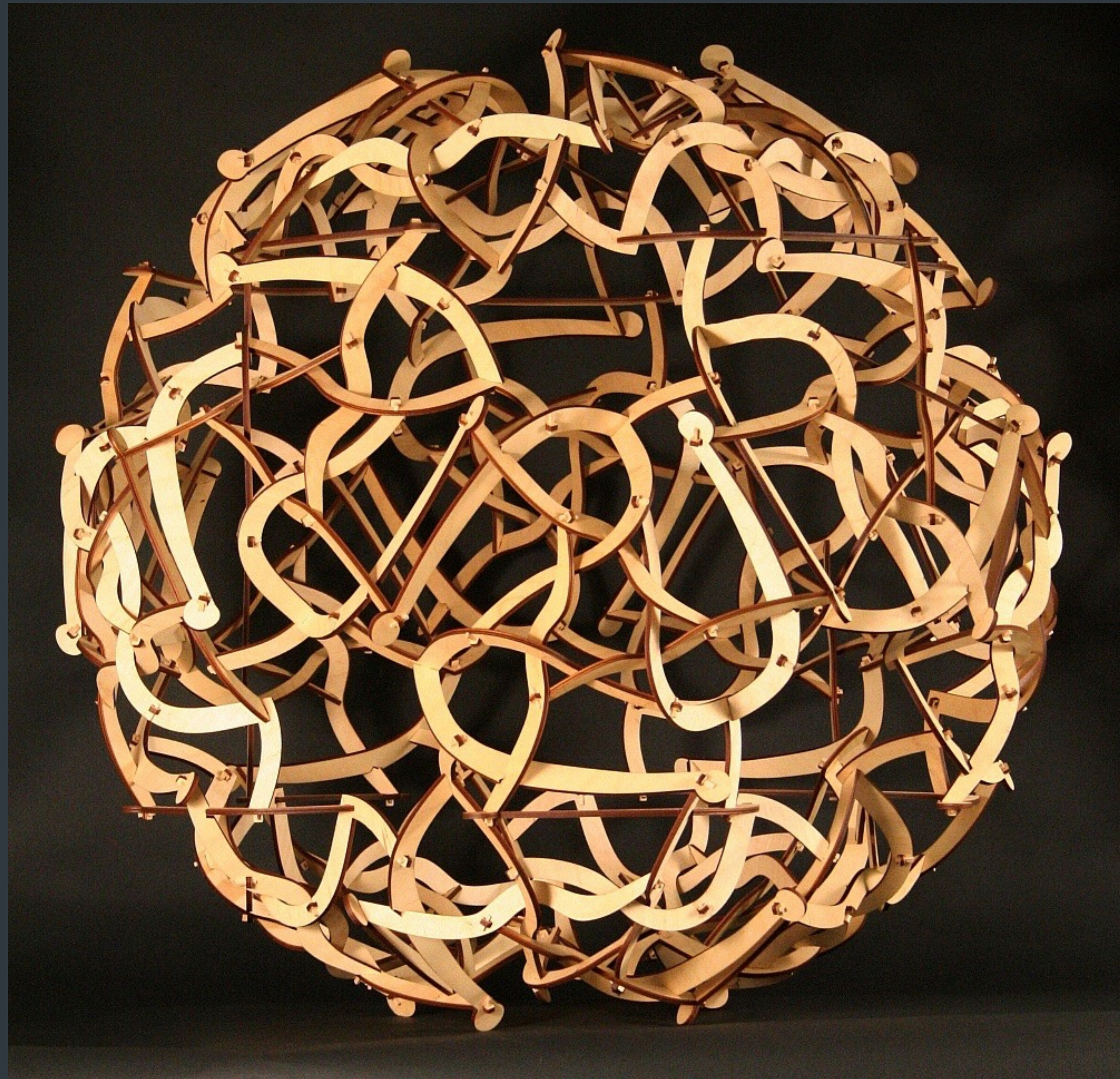
Just Render()

React will be smart about updating the DOM.
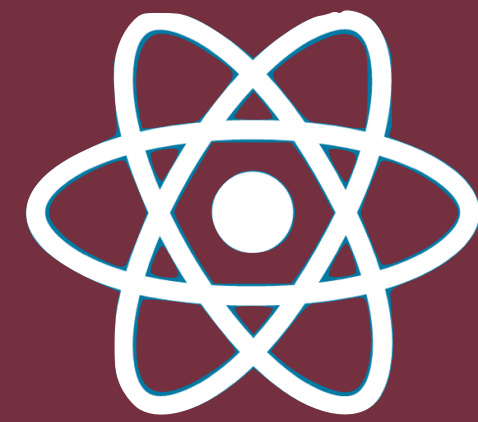
Not a framework
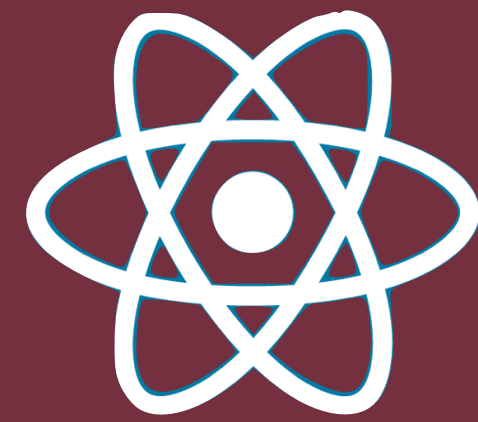
Library (view layer)

React

Sass

wpcom.js

webpack

WP-API

page.js

redux

Components

socket.io

Calypso Docs

- Search
- The Calypso Guide
- Contributing

Live Docs

- UI Components
- App Components
- Typography
- Icons

Development Values

0. We do it all for the user

1. We optimize for iterating quickly

2. We are here for the long haul

3. We don't trust
ourselves to be perfect

186 Open ✓ 2,909 Closed

4. We are in it together

17 contributors

When developers and designers care about all the flows, not just where their particular section ends, the work as a whole begins to shine.

1. Performance
2. Composition
3. Calypso as a framework

With size comes
Code Splitting

```
                                          wp-calypso — node ◆ make run — Solarized Dark ansi — 158×57

Hash: 9c4b30253343a49fd849
Time: 35495ms
                                         Asset     Size  Chunks                 Chunk Names
                          help.f7e6fc496894d2fe15c2.js   249 kB      20  [emitted]  help
                       commons.9c4b30253343a49fd849.js  1.08 MB       0  [emitted]  commons
                    post-editor.c9de8c9d0081d8f6826b.js  3.65 MB       2  [emitted]  post-editor
                       devdocs.9ef282ad5baafead2d23.js  1.46 MB       3  [emitted]  devdocs
       reader-post-recomendations.b10785a423c28cc3d453.js  43.8 kB     4  [emitted]  reader-post-recomendations
                      upgrades.d6fed86e4860def058cc.js  1.12 MB       5  [emitted]  upgrades
                       signup.44ae2440492947e0a66c.js   668 kB       6  [emitted]  signup
                  reader-tags.129ffa1aa8b5a0bee301.js  20.5 kB       7  [emitted]  reader-tags
                        reader.a95b59e22c95adb35cb1.js  3.84 MB       8  [emitted]  reader
                       themes.9689d66ed186d80abd84.js   335 kB       9  [emitted]  themes
                     settings.80eddc03fd61f6beef43.js   590 kB      10  [emitted]  settings
                      plugins.f337c4775477cbf44e3c.js   669 kB      11  [emitted]  plugins
                        theme.127b2e3758bb0575d758.js   229 kB      12  [emitted]  theme
                     security.5cb227693c917a646eec.js   442 kB      13  [emitted]  security
                        plans.7e33e801c0e43b5aa855.js   396 kB      14  [emitted]  plans
                        stats.4c59f0c693a931655b57.js   444 kB      15  [emitted]  stats
                    purchases.92c663ca8c66e09dc037.js   398 kB      16  [emitted]  purchases
           notification-settings.18835168de13ba628019.js   291 kB    17  [emitted]  notification-settings
                        menus.def6ecc88a53c29448f7.js   317 kB      18  [emitted]  menus
                       people.ad996c41abcb51ed4735.js   297 kB      19  [emitted]  people
                  posts-pages.671fb5e63fe112481770.js   291 kB       1  [emitted]  posts-pages
                      sharing.eb5db873a58de2de4f9c.js   288 kB      21  [emitted]  sharing
                        media.cfb63f141956312fe6f1.js   262 kB      22  [emitted]  media
                      billing.22dcad59fa3ad16b6ac2.js   207 kB      23  [emitted]  billing
                      account.e3e75c19e7a55f30b11e.js   193 kB      24  [emitted]  account
               reader-following.6996691e29a270754f24.js   148 kB     25  [emitted]  reader-following
                accept-invite.3fe6dc9ac41eb1af81d5.js   170 kB      26  [emitted]  accept-invite
                           me.2f42c2e9a77b10fa2cd0.js   134 kB      27  [emitted]  me
                    reader-list.7b25f31aea4f6744c3bf.js   107 kB      28  [emitted]  reader-list
                   reader-start.d92763438d9ec8741ca1.js   129 kB      29  [emitted]  reader-start
                          ads.1b9d7aa15b841e261949.js  90.4 kB      30  [emitted]  ads
                  posts-custom.8ad45a58a7b6bb44ae32.js  63.3 kB      31  [emitted]  posts-custom
                     customize.792fcd3ee1f4eaf0a5a4.js  44.3 kB      32  [emitted]  customize
                  reader-search.1cd75fe876b984f42c70.js  19.7 kB     33  [emitted]  reader-search
               reader-activities.70ee91d60457cc2e1e72.js  11.3 kB     34  [emitted]  reader-activities
                  mailing-lists.9e173dbf8896e5b85b5d.js    17 kB      35  [emitted]  mailing-lists
                     discover.4b6b7f01af1b80dc0dfa.js  6.08 kB      36  [emitted]  discover
                       vendor.9c4b30253343a49fd849.js  1.05 MB      37  [emitted]  vendor
                   devmodules.a2a38ec4296b160c459b.js  10.2 kB      38  [emitted]  devmodules
              build-development.9c4b30253343a49fd849.js  4.73 MB     39  [emitted]  build-development
chunk    {0} commons.9c4b30253343a49fd849.js 971 kB {39} [rendered]
chunk    {1} posts-pages.671fb5e63fe112481770.js (posts-pages) 262 kB {39} [rendered]
chunk    {2} post-editor.c9de8c9d0081d8f6826b.js (post-editor) 3.24 MB {39} [rendered]
chunk    {3} devdocs.9ef282ad5baafead2d23.js (devdocs) 1.28 MB {39} [rendered]
chunk    {4} reader-post-recomendations.b10785a423c28cc3d453.js (reader-post-recomendations) 39.7 kB {39} [rendered]
chunk    {5} upgrades.d6fed86e4860def058cc.js (upgrades) 1.01 MB {39} [rendered]
chunk    {6} signup.44ae2440492947e0a66c.js (signup) 608 kB {39} [rendered]
chunk    {7} reader-tags.129ffa1aa8b5a0bee301.js (reader-tags) 18.6 kB {39} [rendered]
chunk    {8} reader.a95b59e22c95adb35cb1.js (reader) 3.53 kB {39} [rendered]
chunk    {9} themes.9689d66ed186d80abd84.js (themes) 286 kB {39} [rendered]
chunk   {10} settings.80eddc03fd61f6beef43.js (settings) 529 kB {39} [rendered]
chunk   {11} plugins.f337c4775477cbf44e3c.js (plugins) 578 kB {39} [rendered]
chunk   {12} theme.127b2e3758bb0575d758.js (theme) 189 kB {39} [rendered]
chunk   {13} security.5cb227693c917a646eec.js (security) 393 kB {39} [rendered]
```
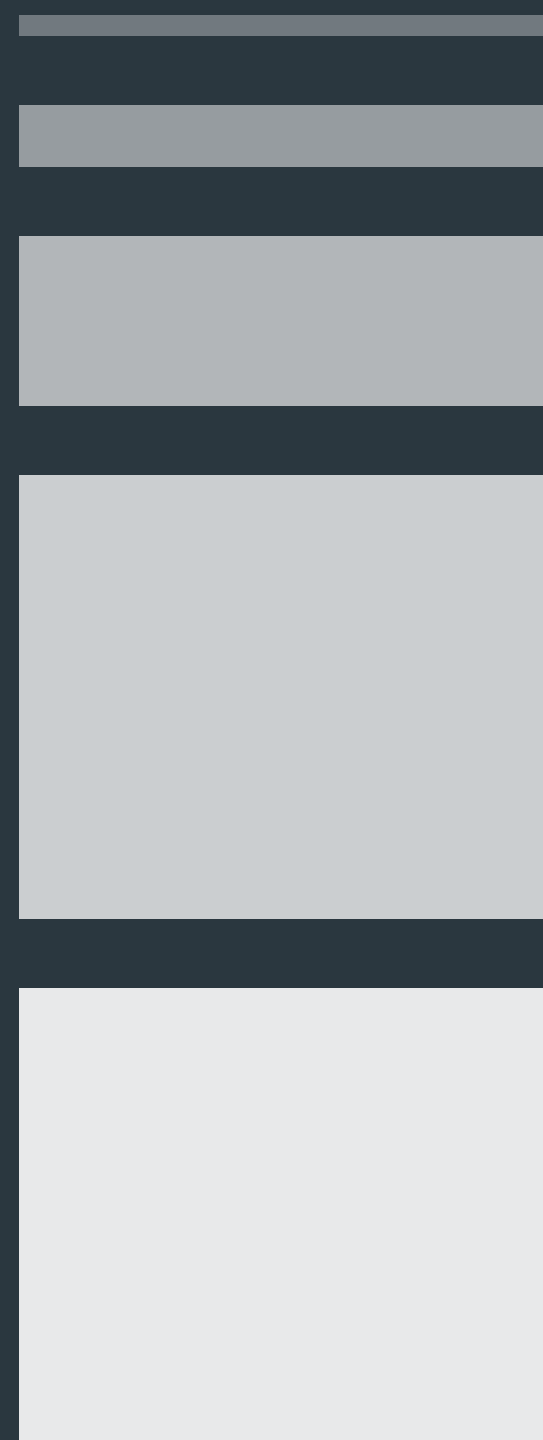
```
Hash: 9c4b30253343a49fd849
Time: 35495ms
                                          Asset     Size  Chunks             Chunk Names
                         help.f7e6fc496894d2fe15c2.js   249 kB      20  [emitted]  help
                   commons.9c4b30253343a49fd849.js  1.08 MB       0  [emitted]  post-editor
               post-editor.c9de8c9d0081d8f6826b.js  3.65 MB       2  [emitted]  post-editor
                   devdocs.9ef282ad5baafead2d23.js  1.46 MB       3  [emitted]  devdocs
  reader-post-recomendations.b10785a423c28cc3d453.js  43.8 kB       4  [emitted]  reader-post-recomendations
                  upgrades.d6fed86e4860def058cc.js  1.12 MB       5  [emitted]  upgrades
                    signup.44ae2440492947e0a66c.js   668 kB       6  [emitted]  signup
               reader-tags.129ffa1aa8b5a0bee301.js  20.5 kB       7  [emitted]  reader-tags
                    reader.a95b59e22c95adb35cb1.js  3.84 kB       8  [emitted]  reader
                    themes.9689d66ed186d80abd84.js   335 kB       9  [emitted]  themes
                  settings.80eddc03fd61f6beef43.js   590 kB      10  [emitted]  settings
                   plugins.f337c4775477cbf44e3c.js   669 kB      11  [emitted]  plugins
                     theme.127b2e3758bb0575d758.js   229 kB      12  [emitted]  theme
                  security.5cb227693c917a646eec.js   442 kB      13  [emitted]  security
                     plans.7e33e801c0e43b5aa855.js   396 kB      14  [emitted]  plans
                     stats.4c59f0c693a931655b57.js   444 kB      15  [emitted]  stats
                 purchases.92c663ca8c66e09dc037.js   398 kB      16  [emitted]  purchases
     notification-settings.18835168de13ba628019.js   291 kB      17  [emitted]  notification-settings
                     menus.def6ecc88a53c29448f7.js   317 kB      18  [emitted]  menus
                    people.ad996c41abcb51ed4735.js   297 kB      19  [emitted]  people
               posts-pages.671fb5e63fe112481770.js   291 kB       1  [emitted]  posts-pages
                   sharing.eb5db873a58de2de4f9c.js   288 kB      21  [emitted]  sharing
                     media.cfb63f141956312fe6f1.js   262 kB      22  [emitted]  media
                   billing.22dcad59fa3ad16b6ac2.js   207 kB      23  [emitted]  billing
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           reader-following.6996691e29a270754f24.js   148 kB      25  [emitted]  reader-following
             accept-invite.3fe6dc9ac41eb1af81d5.js   170 kB      26  [emitted]  accept-invite
                        me.2f42c2e9a77b10fa2cd0.js   134 kB      27  [emitted]  me
               reader-list.7b25f31aea4f6744c3bf.js   107 kB      28  [emitted]  reader-list
              reader-start.d92763438d9ec8741ca1.js   129 kB      29  [emitted]  reader-start
                       ads.1b9d7aa15b841e261949.js  90.4 kB      30  [emitted]  ads
              posts-custom.8ad45a58a7b6bb44ae32.js  63.3 kB      31  [emitted]  posts-custom
                 customize.792fcd3ee1f4eaf0a5a4.js  44.3 kB      32  [emitted]  customize
             reader-search.1cd75fe876b984f42c70.js  19.7 kB      33  [emitted]  reader-search
         reader-activities.70ee91d60457cc2e1e72.js  11.3 kB      34  [emitted]  reader-activities
             mailing-lists.9e173dbf8896e5b85b5d.js    17 kB      35  [emitted]  mailing-lists
                  discover.4b6b7f01af1b80dc0dfa.js  6.08 kB      36  [emitted]  discover
                    vendor.9c4b30253343a49fd849.js  1.05 MB      37  [emitted]  vendor
                devmodules.a2a38ec4296b160c459b.js  10.2 kB      38  [emitted]  devmodules
         build-development.9c4b30253343a49fd849.js  4.73 MB      39  [emitted]  build-development
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chunk    {9} themes.9689d66ed186d80abd84.js (themes) 286 kB {39} [rendered]
chunk    {10} settings.80eddc03fd61f6beef43.js (settings) 529 kB {39} [rendered]
chunk    {11} plugins.f337c4775477cbf44e3c.js (plugins) 578 kB {39} [rendered]
chunk    {12} theme.127b2e3758bb0575d758.js (theme) 189 kB {39} [rendered]
chunk    {13} security.5cb227693c917a646eec.js (security) 393 kB {39} [rendered]
```

Preloading

Developer Tools - https://wpcalypso.wordpress.com/settings/gene...

Elements Console Sources Network Timeline Profiles »

View: Preserve log Disable cache No throttlin

Filter   Regex Hide data URLs

All XHR JS CSS Img Media Font Doc WS Manifest Other

5000 ms   10000 ms   15000 ms   20000 ms

Name	Sta..	Typ..	Initiator	Size	Tim..	Timeline – Start Time 20.00 s
t.gif?path=%2F...	200	gif	Other	12..	41 ..	
merriweather-...	304	font	build-w...	19..	46 ..	
merriweather-r...	304	font	build-w...	19..	49 ..	
?http_envelop...	200	xhr	??/wp-i...	56..	25 ..	
android-chrom...	200	png	Other	(fro..	3 m..	
2439?http_en...	200	xhr	??/wp-i...	36..	312..	
2316?http_env...	200	xhr	??/wp-i...	37..	30..	
2436?http_en...	200	xhr	??/wp-i...	37..	313..	
924?http_enve...	200	xhr	??/wp-i...	37..	313..	
2325?http_env...	200	xhr	??/wp-i...	36..	312..	
2318?http_env...	200	xhr	??/wp-i...	37..	64..	
2322?http_env...	200	xhr	??/wp-i...	36..	64..	
2301?http_env...	200	xhr	??/wp-i...	37..	62..	
1722?http_env...	200	xhr	??/wp-i...	36..	64..	
1581?http_env...	200	xhr	??/wp-i...	37..	67..	
1534?http_env...	200	xhr	??/wp-i...	36..	69..	
1719?http_env...	200	xhr	??/wp-i...	36..	85..	
1736?http_env...	200	xhr	??/wp-i...	37..	69..	
posts?http_en...	200	xhr	??/wp-i...	22..	82..	
favicon-96x96...	200	png	Other	(fro..	2 ms	
favicon-64x64...	200	png	Other	(fro..	3 m..	
post-editor.20...	200	scr..	vendor...	(fro..	33 ..	
sites?http_env...	200	xhr	??/wp-i...	38..	8.6..	
?http_envelop...	200	xhr	??/wp-i...	53..	20..	
matias-ventur...	200	we..	commo...	(fro..	3 m..	

Blog Posts ‹ Matías Ventur.

https://wpcalypso.wordpress.com/posts/matiasventura.com

My Sites   Reader

← SWITCH SITE

Matías Ventura
matiasventura.com

Stats

Plan   Premium

Publish

Blog Posts   Add

Pages   Add

Personalize

Themes   Customize

Menus

Configure

AdControl

Sharing

People   Add

Plugins   Add

Published   Drafts   Scheduled   Trashed

El beso

🕐 5 days ago

✏ Edit   ⬏ View   📊 Stats

\<AsyncLoad\>

github.com/Automattic/wp-calypso/pull/5356

Why do *components* matter?
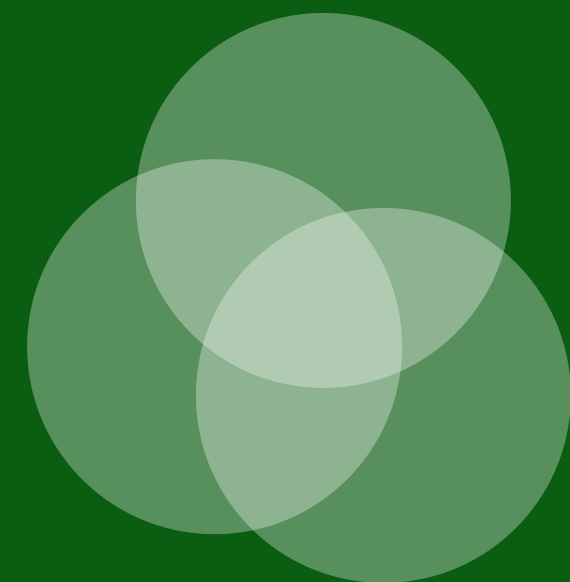
What is a component?
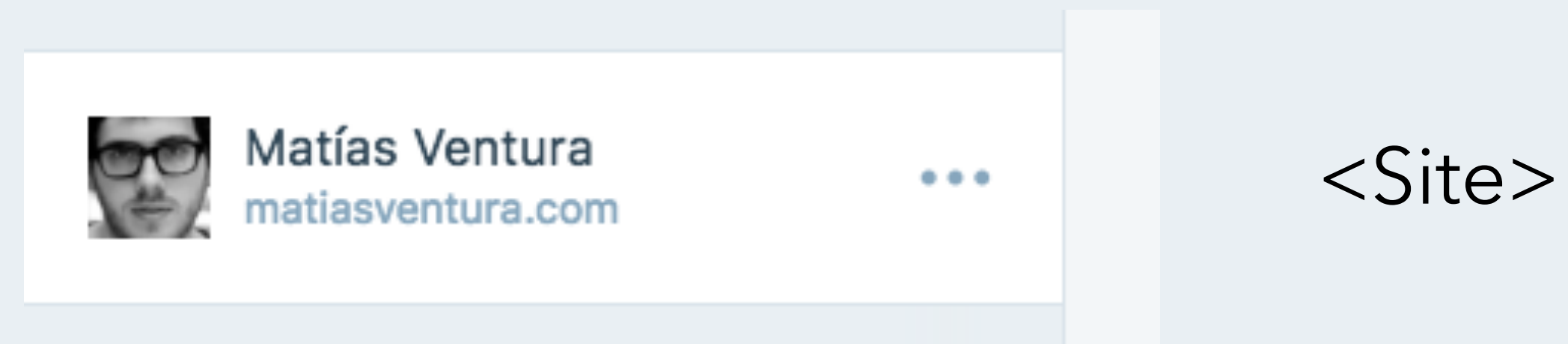
<Site>

JSX + Sass

📁 accordion	Test: Minor cleanup in client/components tests	3 months ago
📁 app-promo	Fix app promo rendering.	14 days ago
📁 author-selector	Upgrade to lodash 4.5.0	4 months ago
📁 bulk-select	Test: Minor cleanup in client/components tests	3 months ago
📁 button-group	Test: Move missed client/components/button-group test	2 months ago
📁 button	Navigation Link: made nav link use a compact borderless button (#5497)	23 days ago
📁 card	Themes: Add feature list to theme sheets	3 months ago
📁 chart	Upgrade to lodash 4.5.0	4 months ago
📁 client-side-effects	Framework: move "analytics" module to lib folder.	2 months ago
📁 clipboard-button-input	Upgrade to lodash 4.5.0	4 months ago
📁 comment-button	Reader: move post comments to Redux, try 2 (#5236)	a month ago
📁 count	Testing: Remove obsolete useI18n test helper	7 days ago
📁 data	Editor: Update page templates on theme change	2 days ago
📁 date-picker	DatePicker: Update styling	2 months ago
📁 dialog	Tidy and organize code - ES6ify - jsdoc	9 days ago
📁 docs-example	DevDocs: Fix DocsExample import and stats styles for the Button example	25 days ago
📁 domains	Domains: Refactor components/domains/*	a day ago
📁 draggable	Image editor: added crop functionality	16 days ago
📁 drop-zone	Move i18n to an external npm package and update usage	8 days ago
📁 email-verification	Using the "notice" gridicon.	2 months ago
📁 embed-container	Reader: Use embed-container to render Slideshow gallery (#5368)	14 days ago
📁 emojify	Update emojify README.	5 months ago
📁 empty-component	Themes: 'Thanks' modal on activation from Theme Sheet (#5259)	a month ago
📁 empty-content	Themes: Show message when theme not found (#5559)	16 days ago

Live components gallery

Calypso Docs

- Search
- The Calypso Guide
- Contributing

Live Docs

- UI Components
- App Components
- Typography
- Icons

Notices

Compact Notices

I'm a notice with no status and a link.

I'm a notice with no status and an action.   Update

I'm an `is-info` notice with custom icon.   ✕

I'm an `is-info` notice with custom icon and an action.   Update

I'm an `is-success` notice.   ✕

I'm an `is-error` notice.   Update

I'm an `is-warning` notice with custom icon.   ✕

Composition

<Site>

<Sidebar>

<SitePopover>

<EditorGroundControl>

Components define
app level **semantics**.

NATIVE HTML

APP

<header>

<Site>

App Components and their impact on **collaboration**.

<Site>

<Post>

<DraftsList>

<Comments>

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

Using Calypso as a
Framework

React

Sass

wpcom.js

webpack

WP-API

page.js

redux

COMPONENTS

App Components

App State

UI Components

calypso

SSR

i18n

Offline(?)

preloading
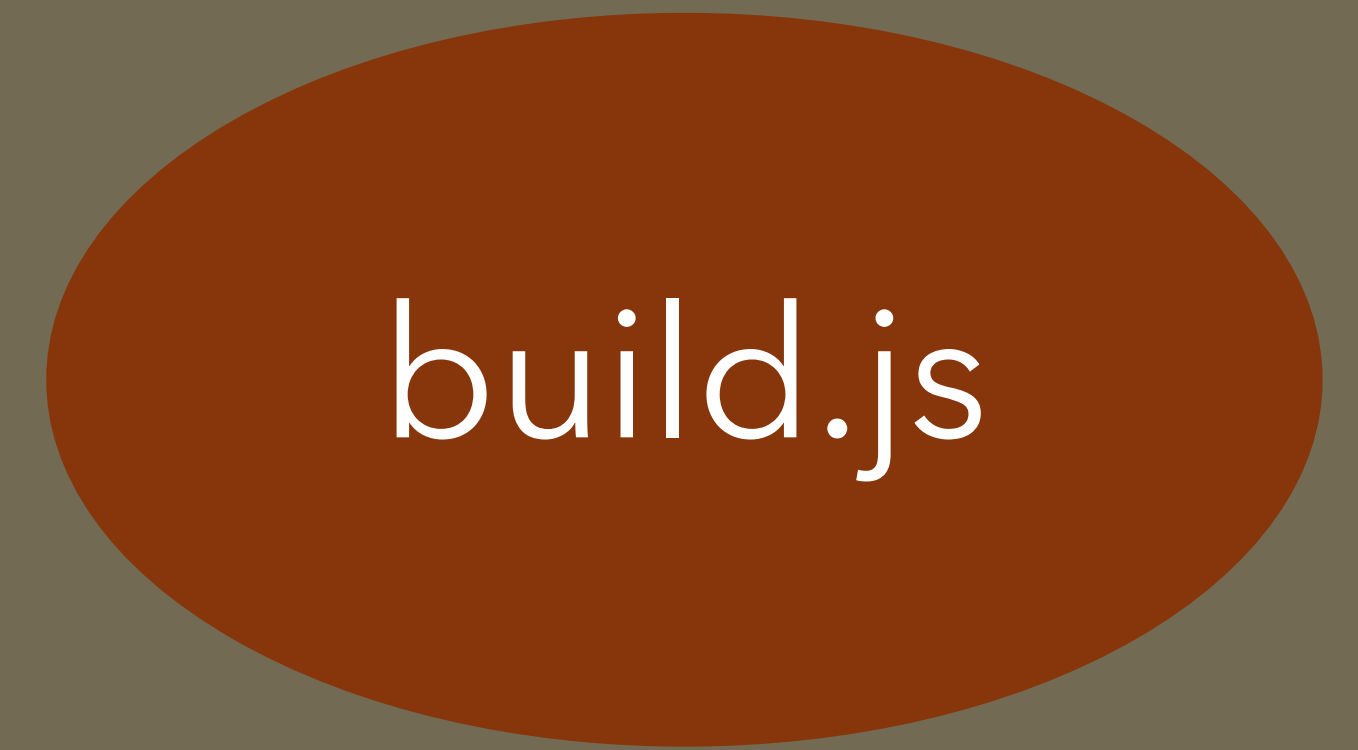
```
{
    "features": {
        "reader": false
    }
}




{
    "project": "my-project"
}

// wp-calypso/client/my-project.js
```

My Sites   Reader

← SWITCH SITE

Matías Ventura
matiasventura.com   •••

📊 Stats

📋 Plan   Premium

Publish

📰 Blog Posts   Add

📄 Pages   Add

Personalize

🖼 Themes   Customize

☰ Menus

Configure

📢 AdControl

🔗 Sharing

👤 People   Add

🔌 Plugins   Add

⚙️ Settings

? HELP

Published   Drafts   Scheduled   Trashed   🔍

Portrait: Belén

🕐 A day ago   ⭐ 👁

✏️ Edit   ⧉ View   📊 Stats   🗑 Trash

Rodin

🕐 2 days ago

DEV 🐞

calypso.localhost

SWITCH SITE

Matías Ventura
matiasventura.com
...

Stats

Plan   Premium

Publish

Blog Posts   Add

Pages   Add

Personalize

Themes   Customize

Menus

Configure

AdControl

Sharing

People   Add

Plugins   Add

Settings

HELP

Published   Drafts   Scheduled   Trashed

Portrait: Belén

A day ago

Edit   View   Stats   Trash

Rodin

2 days ago

DEV

My Sites   Reader

Streams

Followed Sites   Manage

Automattic

Recommended Posts (Alpha)

Discover

Search

Recommendations

My Likes

Lists 1

Tags 11

HELP

← BACK

Matt on Not-WordPress
matt.wordpress.com

Following

Stuff and things.

234,502 followers

DEV

My Sites   Reader

⊘ Matias Testing
matiasventura.wordpress.com

⚙ DRAFT SAVED
A FEW SECONDS AGO

Preview   Publish 📅

🏷 Categories & Tags
Uncategorized

🖼 Featured Image

🔗 Sharing

Post Format
Standard

••• More Options

by Matías ⌄

POST

🔗 # Hello?

Visual   HTML

⊕ ⌄   Paragraph ⌄   **B**   *I*   ☰   ☷   🔗   ❝   ☰   ☰   ☰   ABC✓   ☰   •••

Oh, spooky.

DEV 🐞

```scss
$blue-wordpress:            #e14d43;
$blue-medium:              #69a8bb;
$gray:                     #a0a5aa;
$gray-light:               #f1f1f1;
$gray-dark:                #23282d;
$orange-jazzy:             #f56e28;
$orange-fire:              $orange-jazzy;

$masterbar-color:          $gray-dark;
$sidebar-bg-color:         $gray-dark;
$sidebar-text-color:       $white;
$sidebar-selected-color:   $blue-medium;
```

extend()

* Config files and feature isEnabled checks.

* Notion of "project" definition within **Calypso**.

* Hook within "boot" file to render a different layout.

* Declare new sections for webpack to assemble.

* Benefit form code-splitting and preloading mechanisms.

try()

* Install **Calypso** locally and play around with it.

* Using it to build a custom project and let us know how it goes.

* Add full WP-API support as a library to use instead of wpcom.js.

Thank you.

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