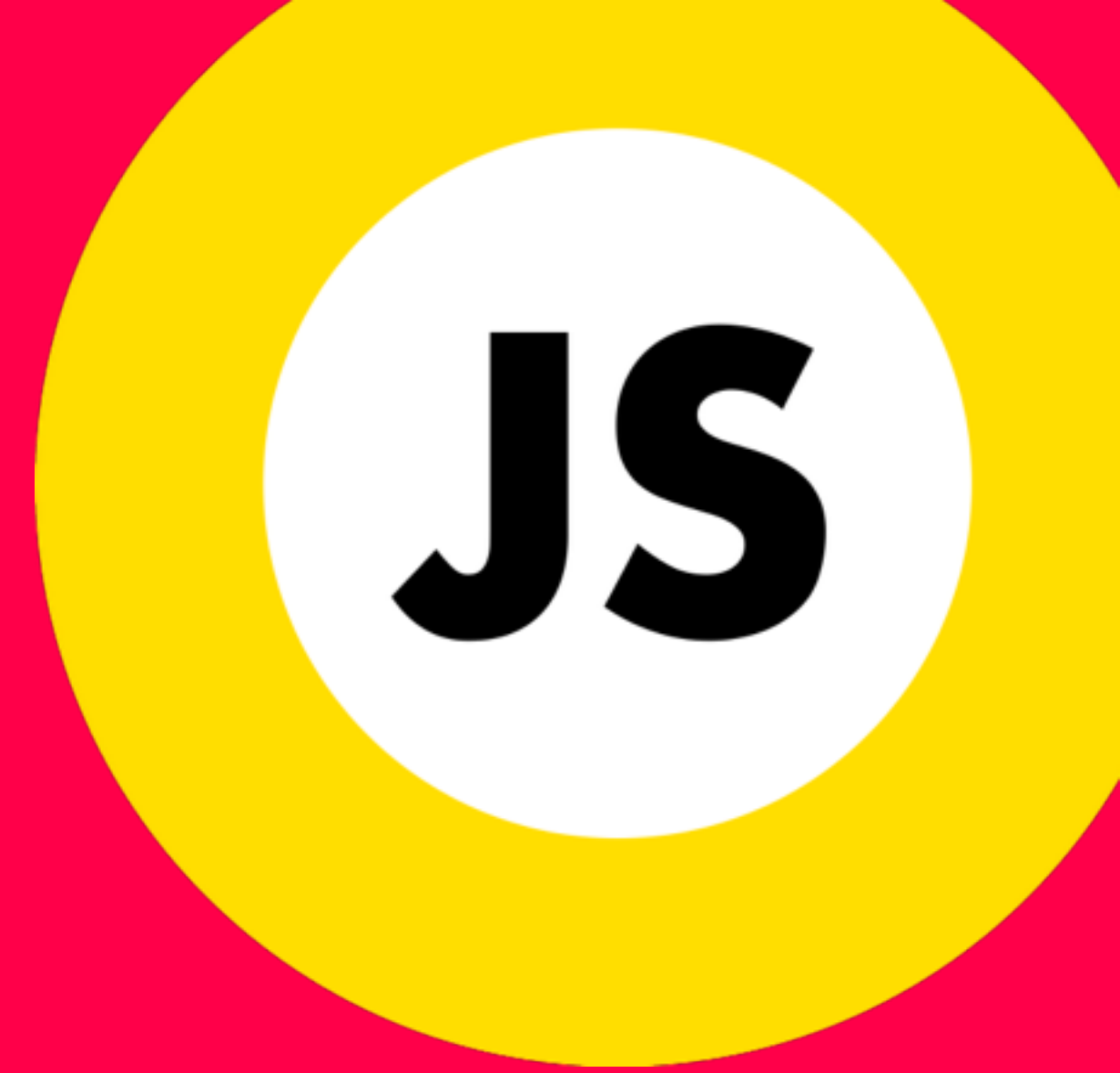




RIOT

Tsutomu Kawamura *@cognitom*

Librize LLC / OpenSource Cafe, Shimokitazawa



Riotjs?

RIOT

User interface micro-library

RIOT

React

Angular

Polymer

Vue

RIOT

OK, try it

RIOT

bit.ly/riot-1

RIOT

Twitter Facebook Google+ LinkedIn Plus

FILES

app.html

index.html

New file

VERSIONS 6

PLUNK

Description:

Tags:

Enter tags

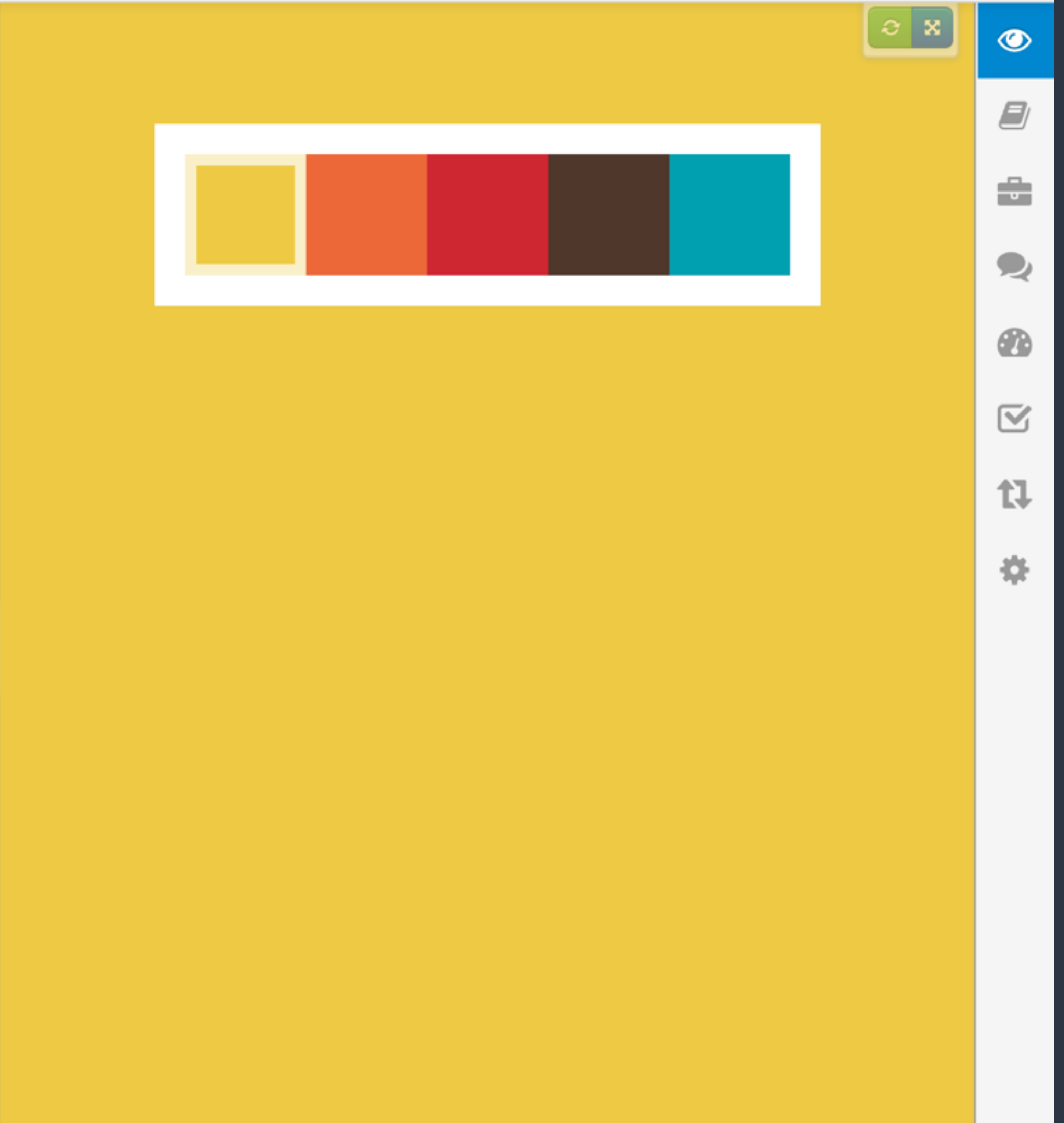
User:

cognitom

Privacy:

private plunk

```
1 <!doctype html>
2 <html>
3
4 <head>
5   <title>Color Palette</title>
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7 </head>
8
9 <body>
10   <app></app>
11
12   <!-- riot tags -->
13   <script type="riot/tag" src="app.html"></script>
14
15   <!-- scripts we need -->
16   <script src="https://cdn.rawgit.com/riot/riot/master/riot+compiler.js"></script>
17
18   <!-- mount this app -->
19   <script>
20     riot.compile(function() {
21       riot.mount('*')
22     })
23   </script>
24
25   <style>
26     body {
27       font-size: 200%;
28       margin: 0;
29       padding: 2em;
30       text-align: center;
31       background: #eee;
32     }
33   </style>
34 </body>
35
36 </html>
37
```



bit.ly/riot-2

RIOT

FILES

app.tag

convert.js

currency.tag

index.html

README.md

New file

PLUNK

Description:

Live filtering

Tags:

riotjs

example

Privacy:

private plunk

1

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<!doctype html>

<html>

<head>

<title>Live filtering</title>

<meta name="viewport" content="width=device-width, initial-s<

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<link rel="stylesheet" href="https://cdn.jsdelivrivr.net/normal<

</head>

<body>

<app></app>

<!-- riot tags -->

<script type="riot/tag" src="app.tag"></script>

<script type="riot/tag" src="currency.tag"></script>

<!-- scripts we need -->

<script src="https://cdn.rawgit.com/riot/riot/master/riot+con<

<!-- load data from Yahoo! and mount this app -->

<script>

/** JSONP callback */

function bootstrap(data) {

riot.mount('app', { items: convert(data) })

}

</script>

<script src="convert.js"></script>

<script src="http://finance.yahoo.com/webservice/v1/symbols/<

</body>

</html>

search

CLF

0.024600

= 1 USD

KWD

0.303200

= 1 USD

BHD

0.377100

= 1 USD

OMR

0.385050

= 1 USD

CYP

0.519550

= 1 USD

LVL

0.620550

= 1 USD

GIP

0.657000

= 1 USD

SHP

0.657000

= 1 USD

GBP

0.659122

= 1 USD

FKP

0.663200

= 1 USD

IEP

0.699154

= 1 USD

JOD

0.709150

= 1 USD

XDR

0.717350

= 1 USD

KYD

0.820000

= 1 USD

- Custom tags = ***Component***
- Enjoyable syntax
- Virtual DOM
- ***Tiny size***: library, learning cost, your code

Why Riot?

The Riot logo consists of the word "RIOT" in white, uppercase, sans-serif font, centered within a red rounded rectangle.

RIOT

riot.min.js

18KB

gzip 8KB

Tiny size

RIOT

| | |
|-----------------------|-------|
| Ember | 493KB |
| Angular | 145KB |
| React | 133KB |
| Polymer with Polyfill | 218KB |
| Riot | 18KB |

Compare

RIOT

React

```
var TodoApp = React.createClass({
  getInitialState: function() {
    return {items: [], text: ''};
  },
  onChange: function(e) {
    this.setState({text: e.target.value});
  },
  handleSubmit: function(e) {
    e.preventDefault();
    var nextItems = this.state.items.concat([this.state.text]);
    var nextText = '';
    this.setState({items: nextItems, text: nextText});
  },
  render: function() {
    return (
      <div>
        <h3>TODO</h3>
        <TodoList items={this.state.items} />
        <form onSubmit={this.handleSubmit}>
          <input onChange={this.onChange} value={this.state.text} />
          <button>'Add #' + (this.state.items.length + 1)</button>
        </form>
      </div>
    );
  }
});
```

Riot

```
<todo>

  <!-- layout -->
  <h3>{ opts.title }</h3>

  <ul>
    <li each={ item, i in items }>{ item }</li>
  </ul>

  <form onSubmit={ add }>
    <input>
    <button>Add #{ items.length + 1 }</button>
  </form>

  <!-- logic -->
  <script>
    this.items = []

    add(e) {
      var input = e.target[0]
      this.items.push(input.value)
      input.value = ''
    }
  </script>
</todo>
```

JS in HTML

RIOT

```
<style scoped>
  :scope {
    display: block;
    text-align: center;
    color: #666; ■
  }
  header {
    background: #72A7EE; ■
    padding: 2em;
    margin-bottom: 1em;
  }
  footer {
    color: #ccc; ■
    padding: 1em;
  }
</style>
```

- CSS with scope
- independent
- ***no more BEM!***

Scoped CSS

RIOT

```
<!-- place the custom tag anywhere inside body -->
```

```
<todo></todo>
```

```
<!-- include tag files -->
```

```
<script src="todo.tag" type="riot/tag"></script>
```

```
<!-- include riot.js -->
```

```
<script src="riot+compiler.min.js"></script>
```

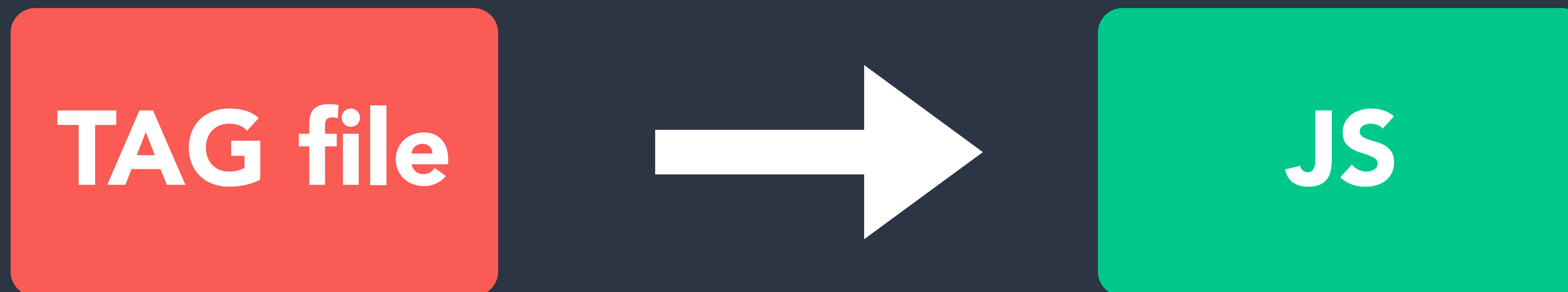
```
<!-- mount tags -->
```

```
<script> riot.mount('todo') </script>
```

Mount a riot

RIOT

```
$ npm install -g riot  
$ riot filename.tag
```



Compile

RIOT

```
<my-tag>
  <p>{ message }</p>
  <style>p { color:white }</style>
  <script>...</script>
</my-tag>
```



```
riot.tag('my-tag',
  '<p>{ message }</p>',
  'p { color:white }',
  function(opts) {...}
)
```

Compile

RIOT

```
gulp.task 'build', ->  
  gulp.src './components/*.html'  
    .pipe compile()  
    .pipe concat 'riot-bootstrap.js'  
    .pipe gulp.dest $.dist
```

```
compile = () ->  
  map (file, cb) ->  
    file.contents = new Buffer riot.compile file.contents.toString()  
    file.path = file.path.replace /\.\.+?$/, '.js'  
    cb null, file
```

- gulp-riot
- riotify
- riotjs-loader

Pre-comp

RIOT

```

module.exports = function(config) {
  config.set({
    basePath: '',
    frameworks: ['mocha', 'riot'],
    plugins: [
      'karma-mocha',
      'karma-mocha-reporter',
      'karma-phantomjs-launcher',
      'karma-riot'
    ],
    files: [
      'node_modules/expect.js/index.js',
      '*.tag',
      'test/**/*.js'
    ],
    preprocessors: {
      '**/*.tag': ['riot']
    },
    browsers: ['PhantomJS'],
    reporters: ['mocha'],
    singleRun: true
  })
}

```

Test

```

describe('Application specs', function() {

  before(function() {
    // create mounting points
    var html = document.createElement('timer')
    document.body.appendChild(html)
  })

  it('mounts the tag', function() {
    var tag = riot.mount('timer')
    expect(document.querySelector('timer > p').textContent)
      .to.be('Seconds Elapsed: 0')
    tag[0].unmount(true)
  })

  it('mounts the tag with options', function() {
    var tag = riot.mount('timer', { start: 100 })
    expect(document.querySelector('timer > p').textContent)
      .to.be('Seconds Elapsed: 100')
    tag[0].unmount(true)
  })

  it('counts up the timer', function(done) {
    var tag = riot.mount('timer')
    setTimeout(function() {
      expect(document.querySelector('timer > p').textContent)
        .to.be('Seconds Elapsed: 1')
      tag[0].unmount(true)
      done()
    }, 1000)
  })
})

```

karma-riot

RIOT

reusables

<btn>

<fa>

<date-picker>

<dropdown>

<photo>

parts

<part1>

<part2>

views

<app>

Build up

RIOT

reusables

<btn>

<fa>

<date-picker>

<dropdown>

<photo>

parts

<part1>

<part2>

views

<app>

route

observable

data store

Build up

RIOT

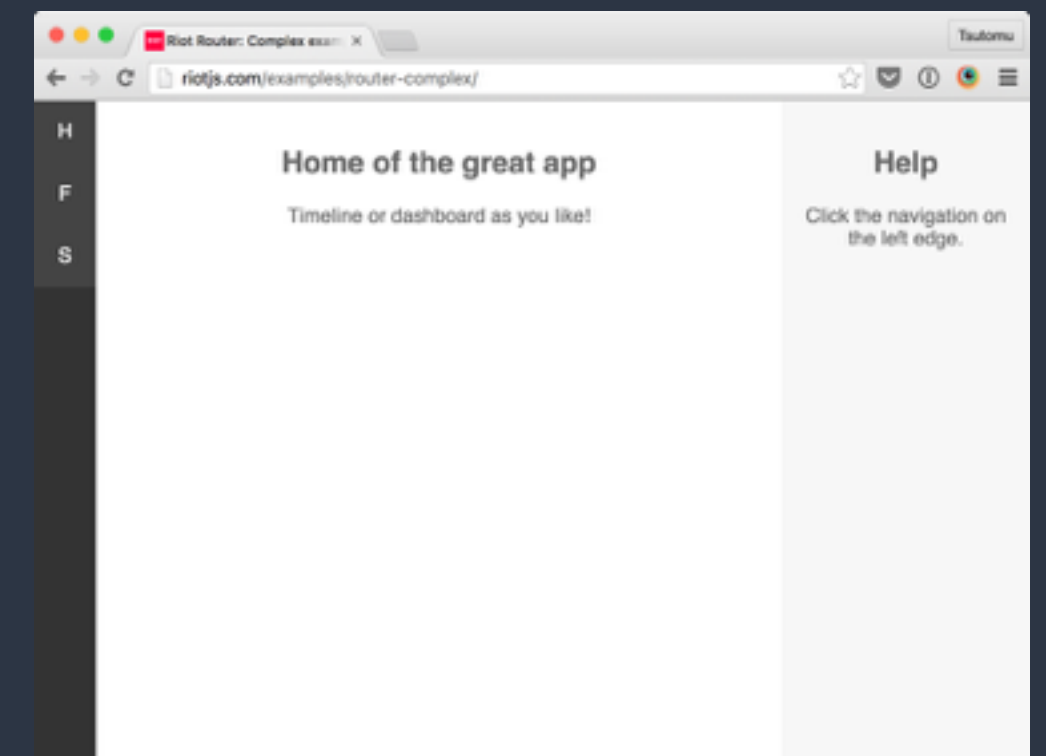
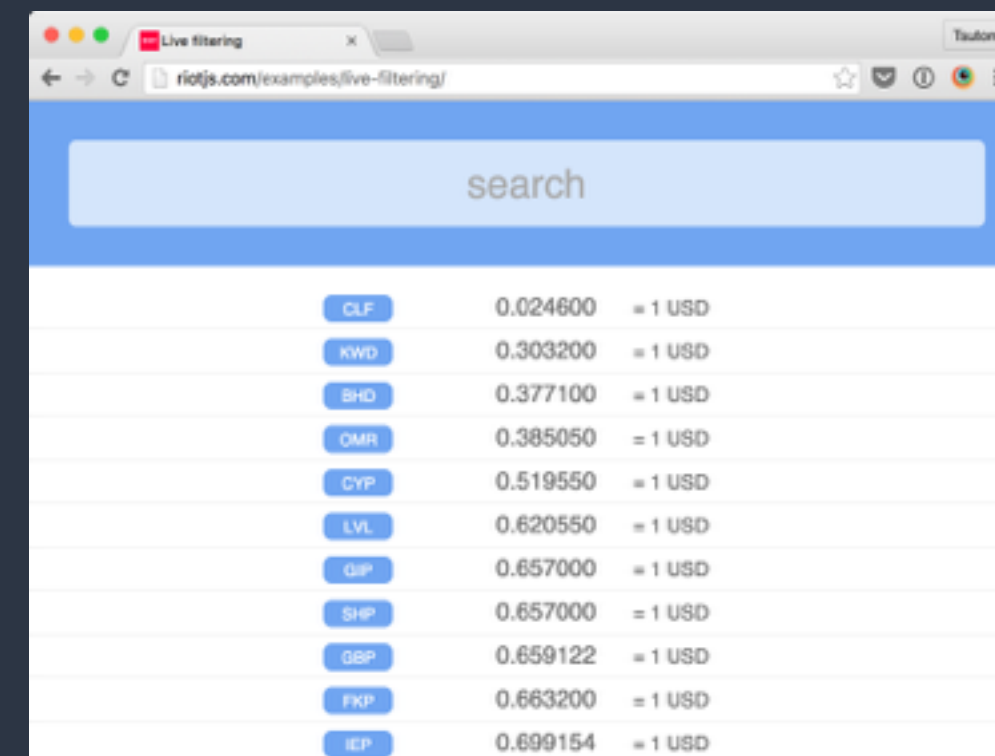
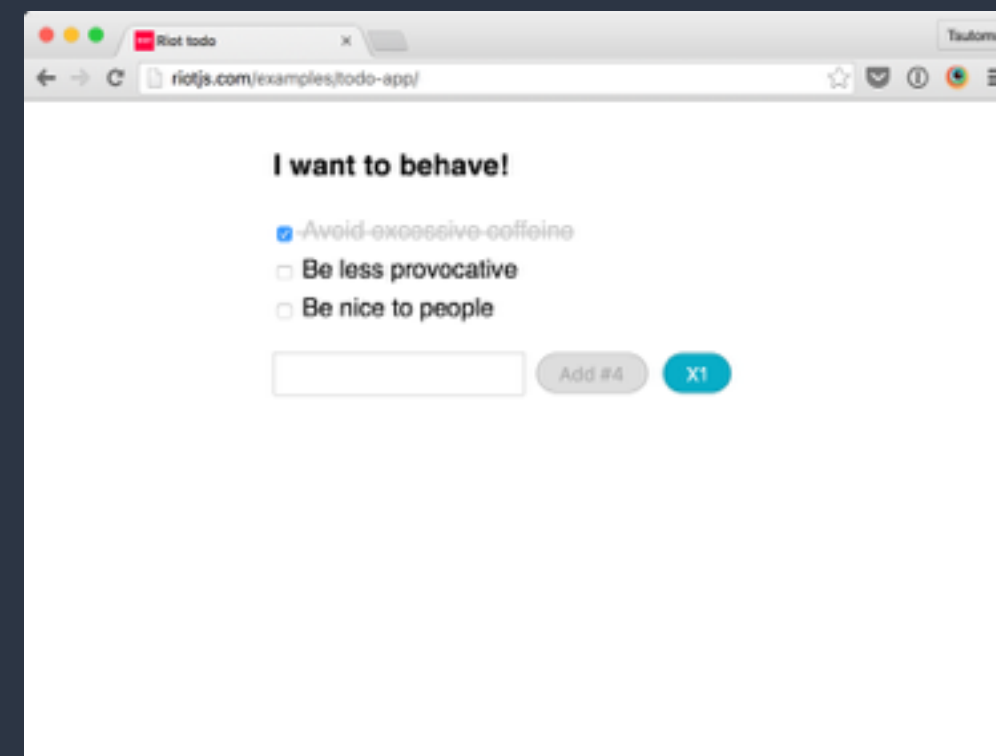
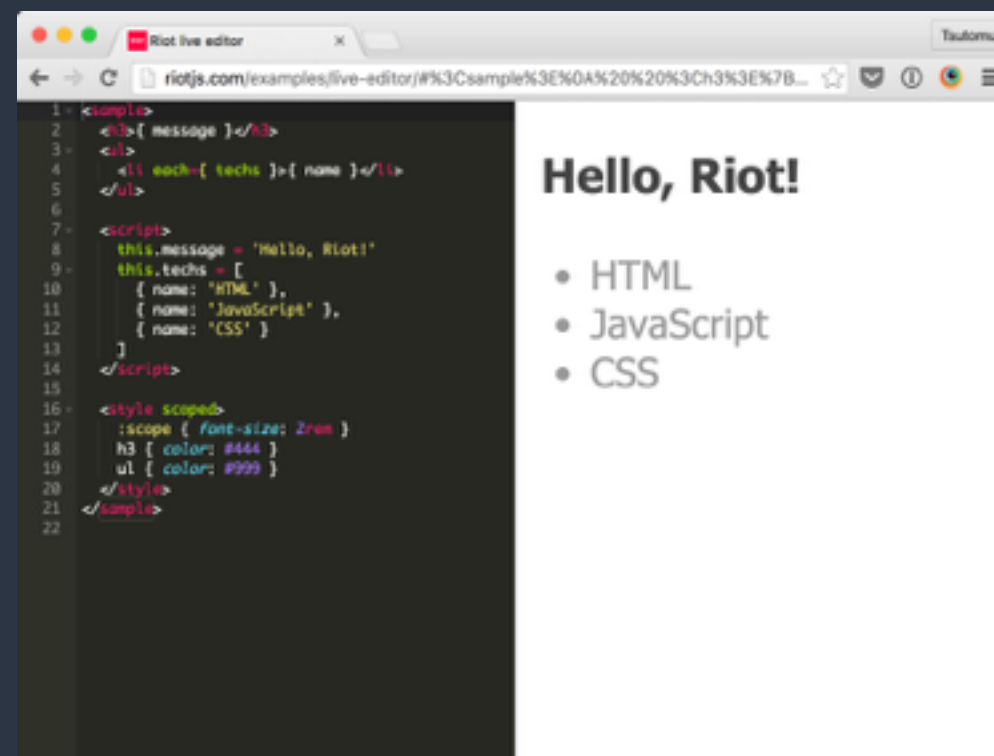
Flux Redux Page.js

Jade ES6 Less

Up to you

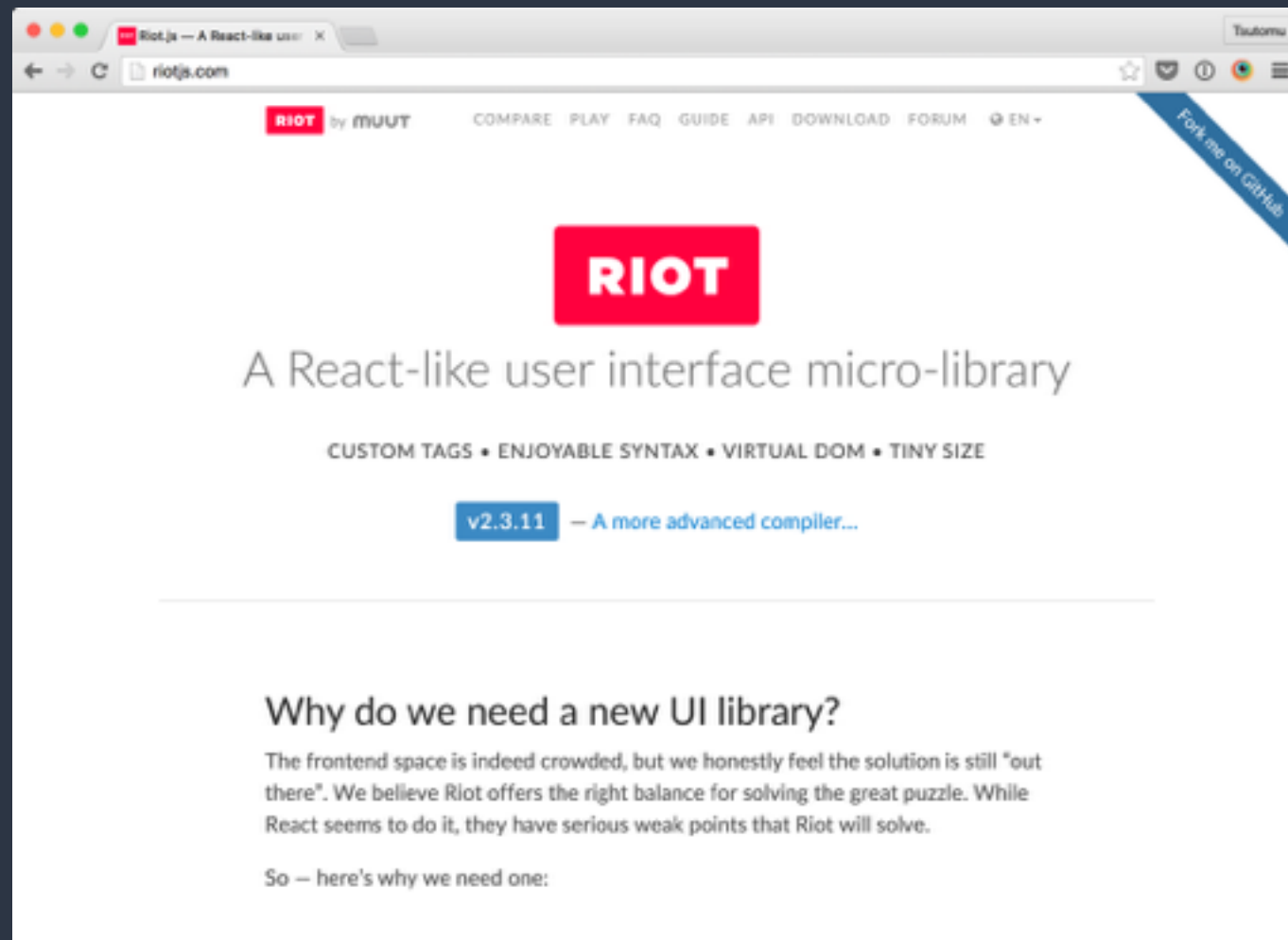
RIOT

github.com/riot/examples



Examples

RIOT



riotjs.com

EN

ES

RU

FR

ZH

JA

DE

Riot Docs

RIOT

RIOT

A React-like user interface micro-library

CUSTOM TAGS • ENJOYABLE SYNTAX • VIRTUAL DOM • TINY SIZE

v2.3.11 — [A more advanced compiler...](#)

Why do we need a new UI library?

The frontend space is indeed crowded, but we honestly feel the solution is still “out there”. We believe Riot offers the right balance for solving the great puzzle. While React seems to do it, they have serious weak points that Riot will solve.

So — here’s why we need one:



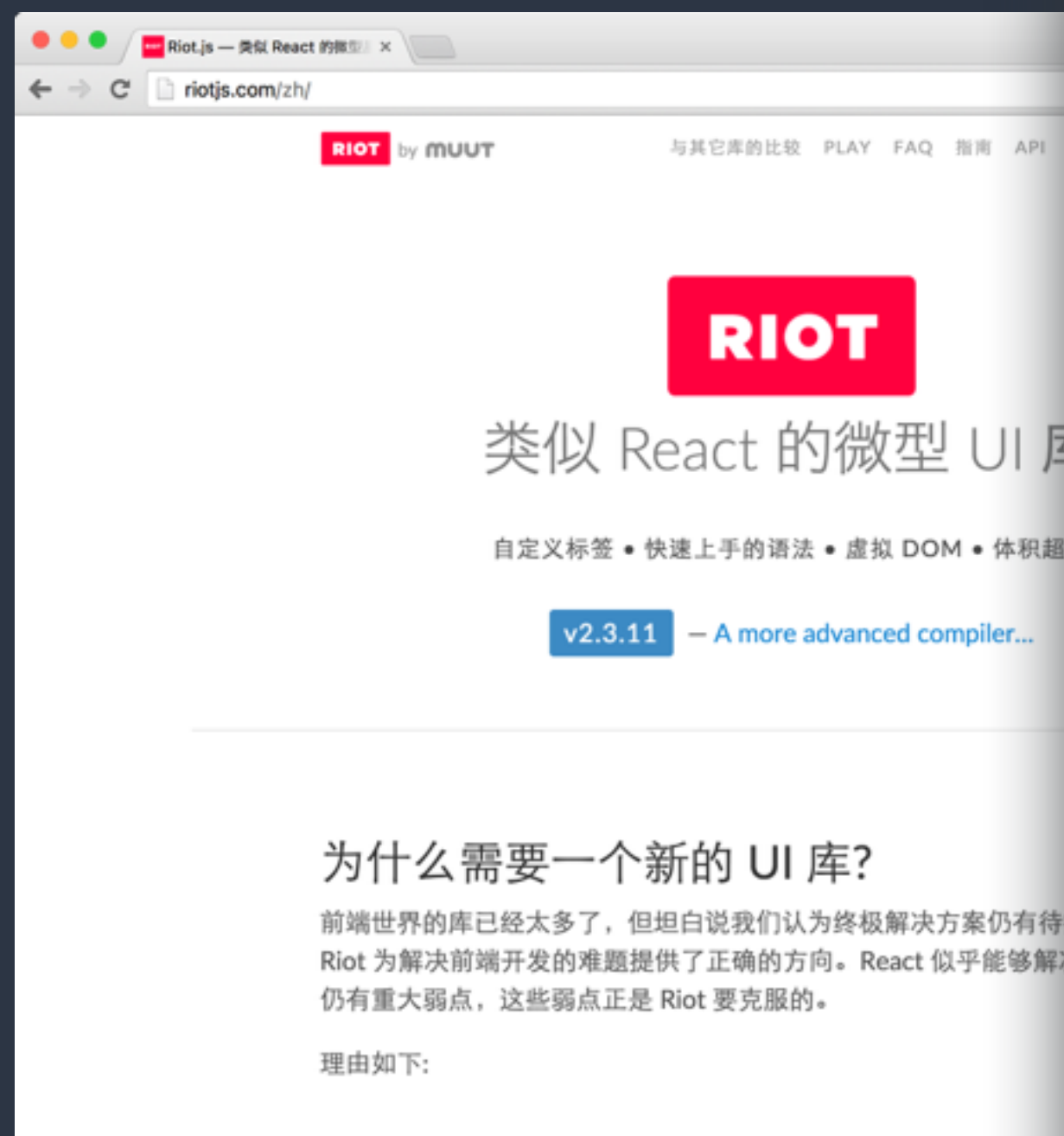
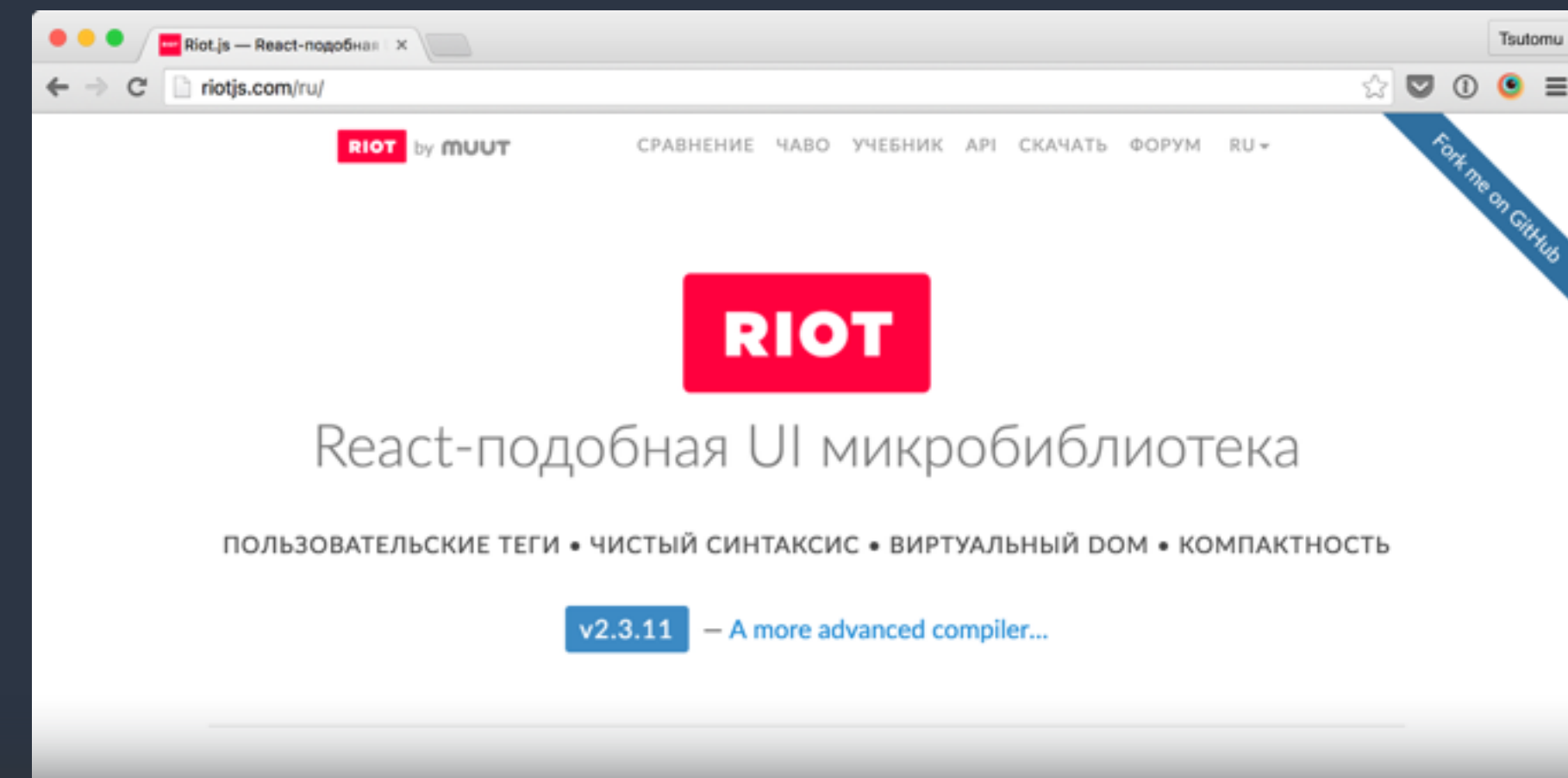
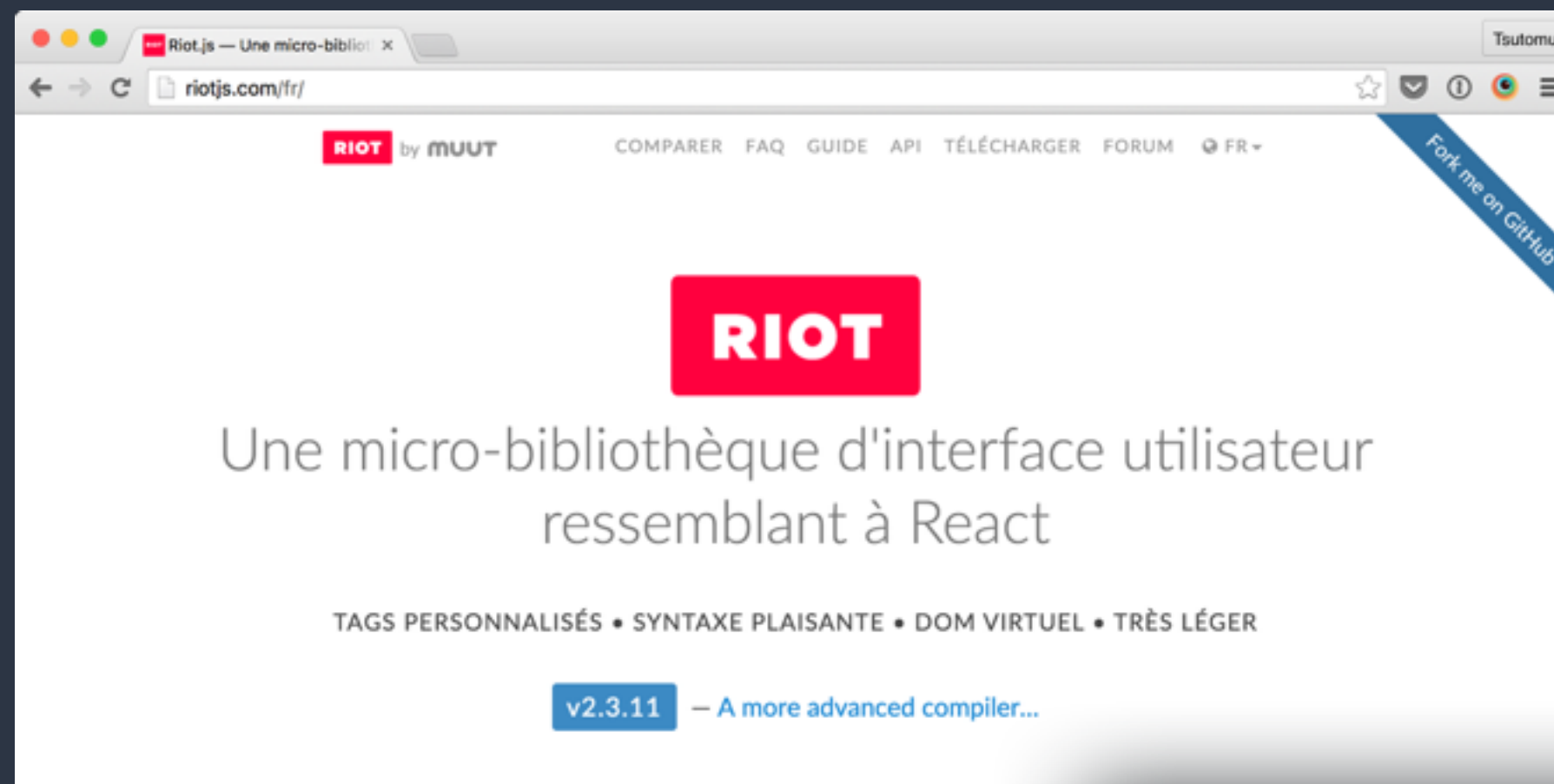
Una micro biblioteca para IU similar a React

ETIQUETAS PERSONALIZADAS • SINTAXIS AGRADABLE • DOM VIRTUAL • TAMAÑO MINÚSCULO

v2.3.11 — [A more advanced compiler...](#)

¿Porqué necesitamos otra biblioteca para IU?

El espacio de los frentes para aplicaciones está repleto pero, honestamente, sentimos que la solución aun está "allá afuera". Creemos que Riot ofrece el balance correcto para resolver el gran rompecabezas. Mientras React parece hacerlo, tiene serios puntos débiles que Riot resuelve.



なぜ新しいUIライブラリが必要なのか

フロントエンドの世界には、ライブラリが溢れてはいるものの、正直なところソリューションはまだ「そこにはない」と感じています。僕たちは、この大きなパズルを解くために、Riotという最良のバランスを見つけました。Reactが果たしかけたに見えたものの、重大な弱点を残している点、それをRiotは解決します。

Ready to use

RIOT



Thank you!

Browser window showing the GitHub page for the Riot repository. The address bar displays "https://github.com/riot". The repository name "Riot" is prominently displayed, along with the description "A React- like, user interface library" and the website "http://riotjs.com". The page includes navigation links for "Pull requests", "Issues", and "Gist". A search bar is visible, and a green button labeled "+ New repository" is present. The "People" section shows a list of contributors, with a circular callout highlighting a subset of them.

