Real-Life React

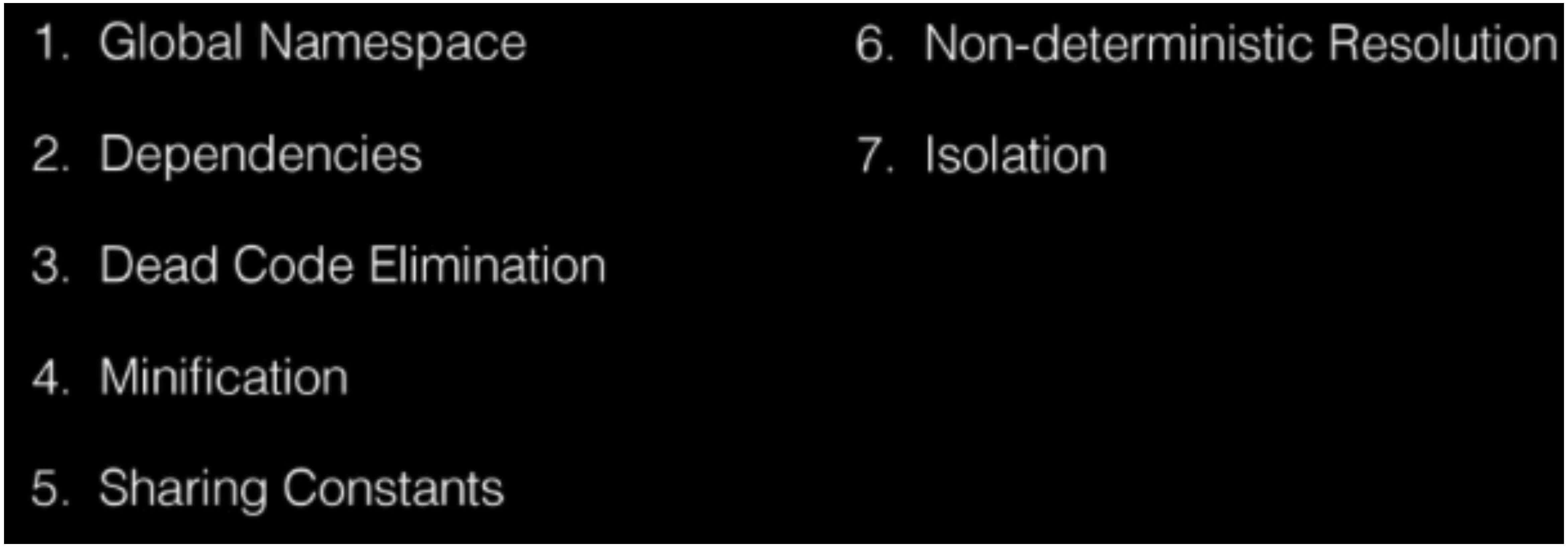
Tools & Techniques

Zürich ReactJS Meetup
April 27th, 2016
http://bit.ly/real-life-react

Agenda

- **Styling** React components
  - Preprocessor: SCSS
  - Postprocessor: CSS Modules
  - Inline Style Helper: Radium
- **Documentation** for React components
  - Storybook
  - Catalog

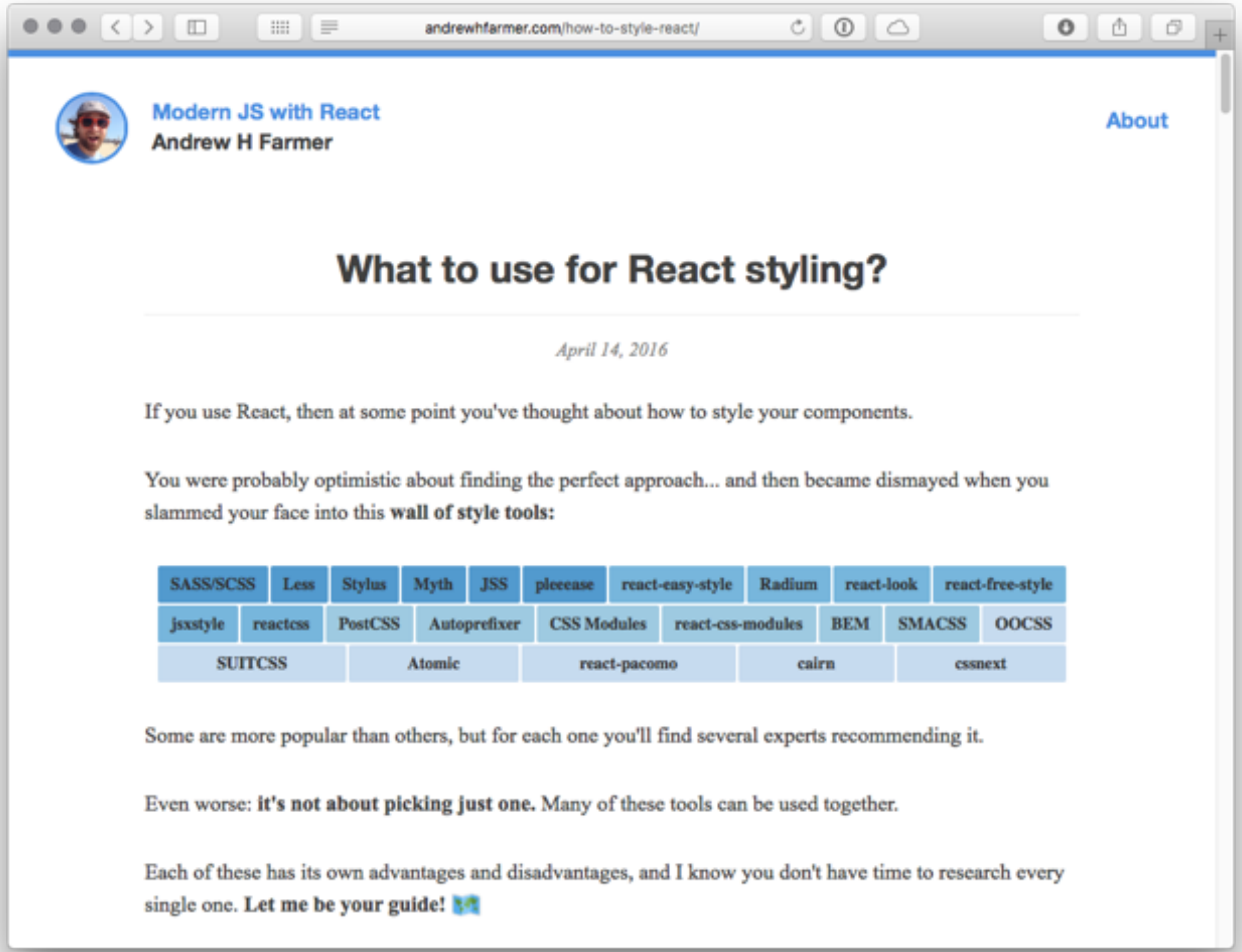
The problem(s) with CSS



1. Global Namespace
2. Dependencies
3. Dead Code Elimination
4. Minification
5. Sharing Constants
6. Non-deterministic Resolution
7. Isolation

- https://speakerdeck.com/vjeux/react-css-in-js
- https://vimeo.com/116209150

Current solutions



andrewhfarmer.com/how-to-style-react/

Modern JS with React
Andrew H Farmer

About

What to use for React styling?

April 14, 2016

If you use React, then at some point you've thought about how to style your components.

You were probably optimistic about finding the perfect approach... and then became dismayed when you slammed your face into this **wall of style tools:**

SASS/SCSS · Less · Stylus · Myth · JSS · pleeease · react-easy-style · Radium · react-look · react-free-style
jsxstyle · reactcss · PostCSS · Autoprefixer · CSS Modules · react-css-modules · BEM · SMACSS · OOCSS
SUITCSS · Atomic · react-pacomo · cairn · cssnext

Some are more popular than others, but for each one you'll find several experts recommending it.

Even worse: **it's not about picking just one.** Many of these tools can be used together.

Each of these has its own advantages and disadvantages, and I know you don't have time to research every single one. **Let me be your guide!** 🗺

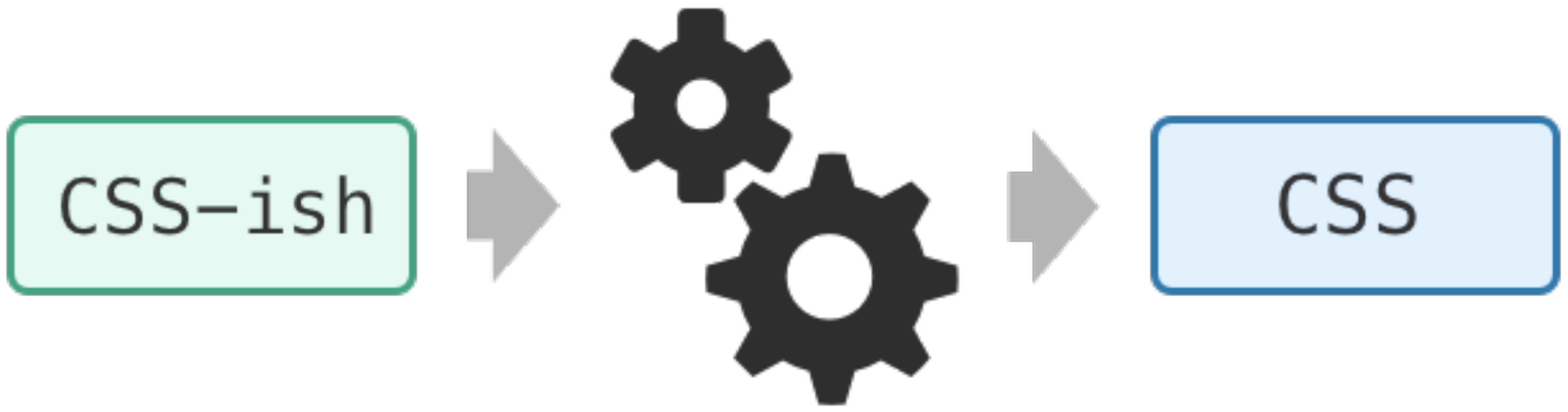
Four Types of Tools

- Methodologies: disciplined use of CSS (e.g. BEM)
- Preprocessors
- Postprocessors
- Inline Style Helpers

Demo projects

```
dist/
  bundle.js
  index.html
src/
  index.jsx
.babelrc
package.json
webpack.config.js
```

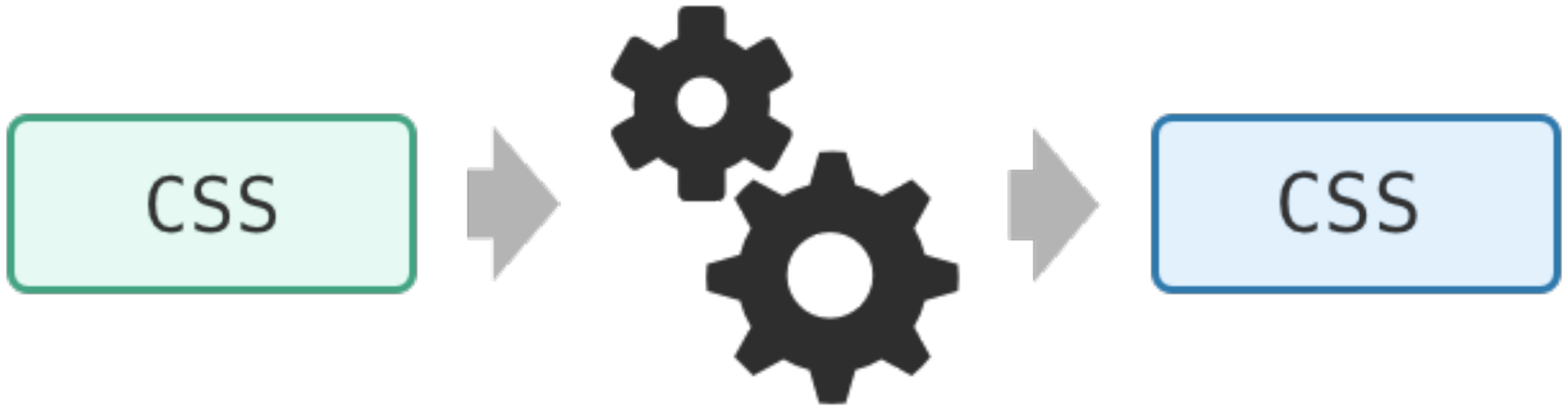
Preprocessors



SCSS

- Like CSS, but with more features (Variables, Nesting, Functions…)
- Needs preprocessor (sass-loader for webpack), creates external stylesheets
- Makes CSS code easier to write and maintain, but used in components like CSS
- Not React-specific at all

Postprocessors



CSS Modules

- Stylesheet co-located with components
- Generates unique class names to avoid collisions
- Supports stylesheet composition
- Supported by css-loader for webpack
- ReactiveConf: The case for CSS modules
  https://www.youtube.com/watch?v=zR1lOuyQEt8

Inline Style Helpers

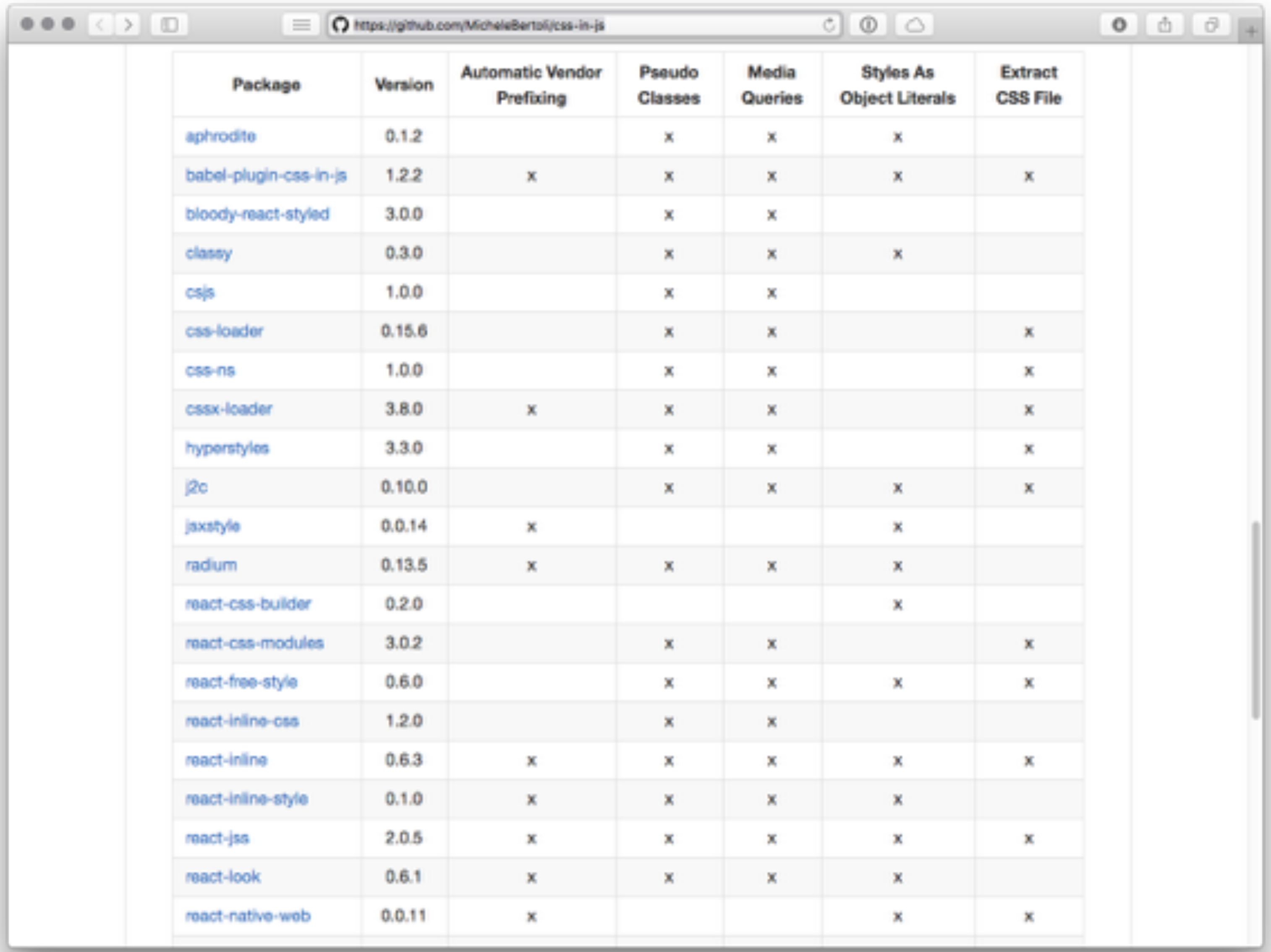
```
<div style={{color: "red"}}>
  Lorem ipsum dolor
</div>
```

- Joins form and function within component
- Explicit style attributes of DOM elements
- CSS can be handled like any other data
- Easy dynamic styling

Radium

- Adds features only available in CSS
  - Pseudo-selectors (e.g. `a:hover`)
  - Media queries (e.g. `@media print`)
- Automatic vendor prefixing
- Applied by wrapping component before instantiation (e.g. `Radium(App)`)

Other CSS-in-JS techniques



Package	Version	Automatic Vendor Prefixing	Pseudo Classes	Media Queries	Styles As Object Literals	Extract CSS File
aphrodite	0.1.2		x	x	x	
babel-plugin-css-in-js	1.2.2	x	x	x	x	x
bloody-react-styled	3.0.0		x	x		
classy	0.3.0		x	x	x	
csjs	1.0.0		x	x		
css-loader	0.15.6		x	x		x
css-ns	1.0.0		x	x		x
cssx-loader	3.8.0	x	x	x		x
hyperstyles	3.3.0		x	x		x
j2c	0.10.0		x	x	x	x
jsxstyle	0.0.14	x			x	
radium	0.13.5	x	x	x	x	
react-css-builder	0.2.0				x	
react-css-modules	3.0.2		x	x		x
react-free-style	0.6.0		x	x	x	x
react-inline-css	1.2.0		x	x		
react-inline	0.6.3	x	x	x	x	x
react-inline-style	0.1.0	x	x	x	x	
react-jss	2.0.5	x	x	x	x	x
react-look	0.6.1	x	x	x	x	
react-native-web	0.0.11	x			x	x

github.com/MicheleBertoli/css-in-js