

React 101

Let's make a simple image gallery

Outline

- Who am I
- Goal
- What is React
- Code, code, code

I'm **Casper** Kuijjer, a **Full Stack** software engineer at **Exact Connect**

One of the first **multidisciplinary teams** within Exact, working in a **startup** like fashion

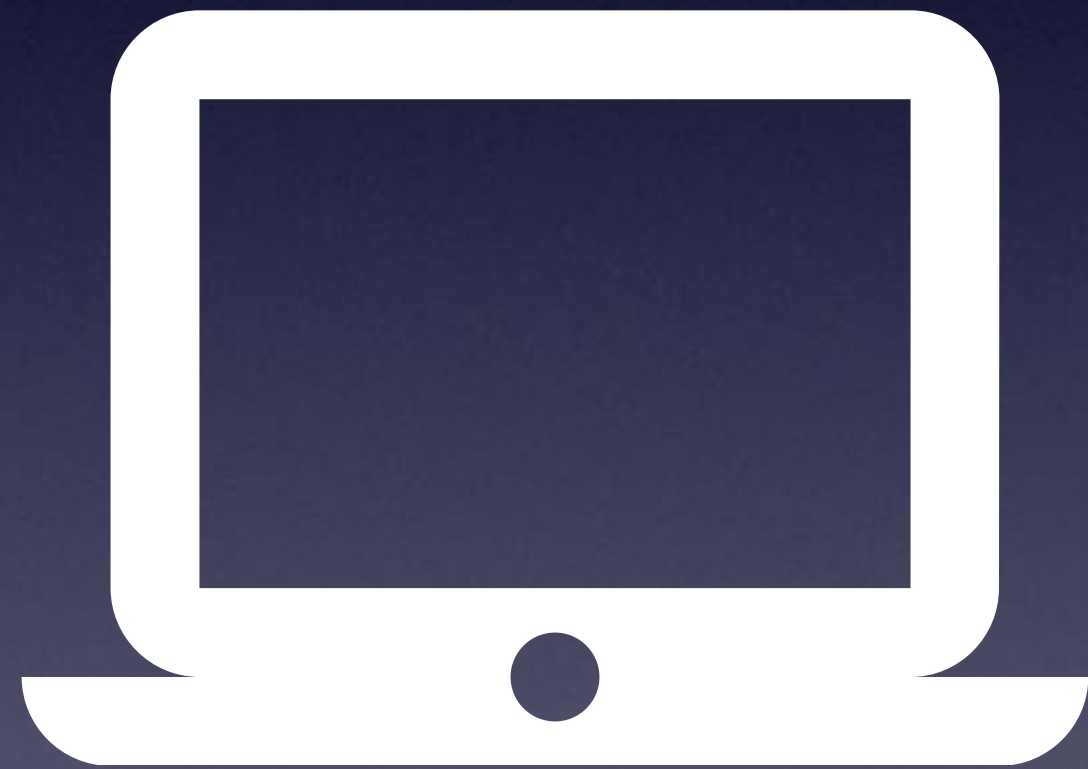
We're building a **platform** to help SMEs, at first accountants, **find new customers**

JAVASCRIPT



ALL THE THINGS

Full JavaScript Stack



React



React Native



Node.js
AWS Lambda

Goal


I hope you'll **feel comfortable** enough
to start **playing** around with React for
hobby and work projects

What is React

- Declarative
“it should look like this” versus “this is what you should do”
- Component based
Compose a complex application using simple components
- Virtual DOM
- One-way data flow
Components pass data to their children, this predictable top-down data flow makes it easy to reason about components

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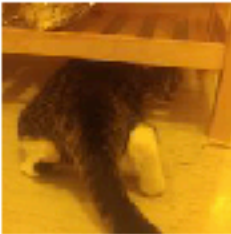
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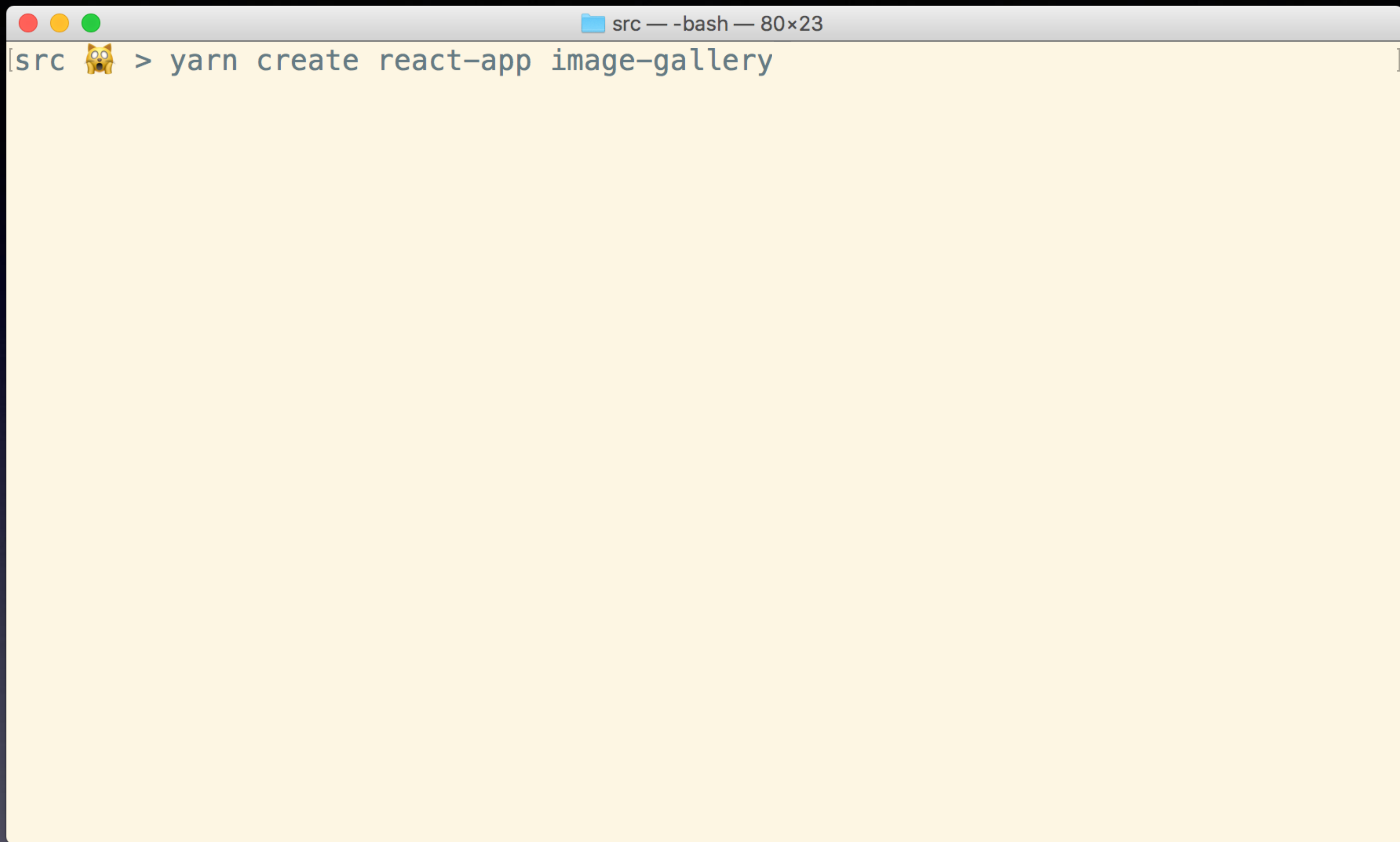
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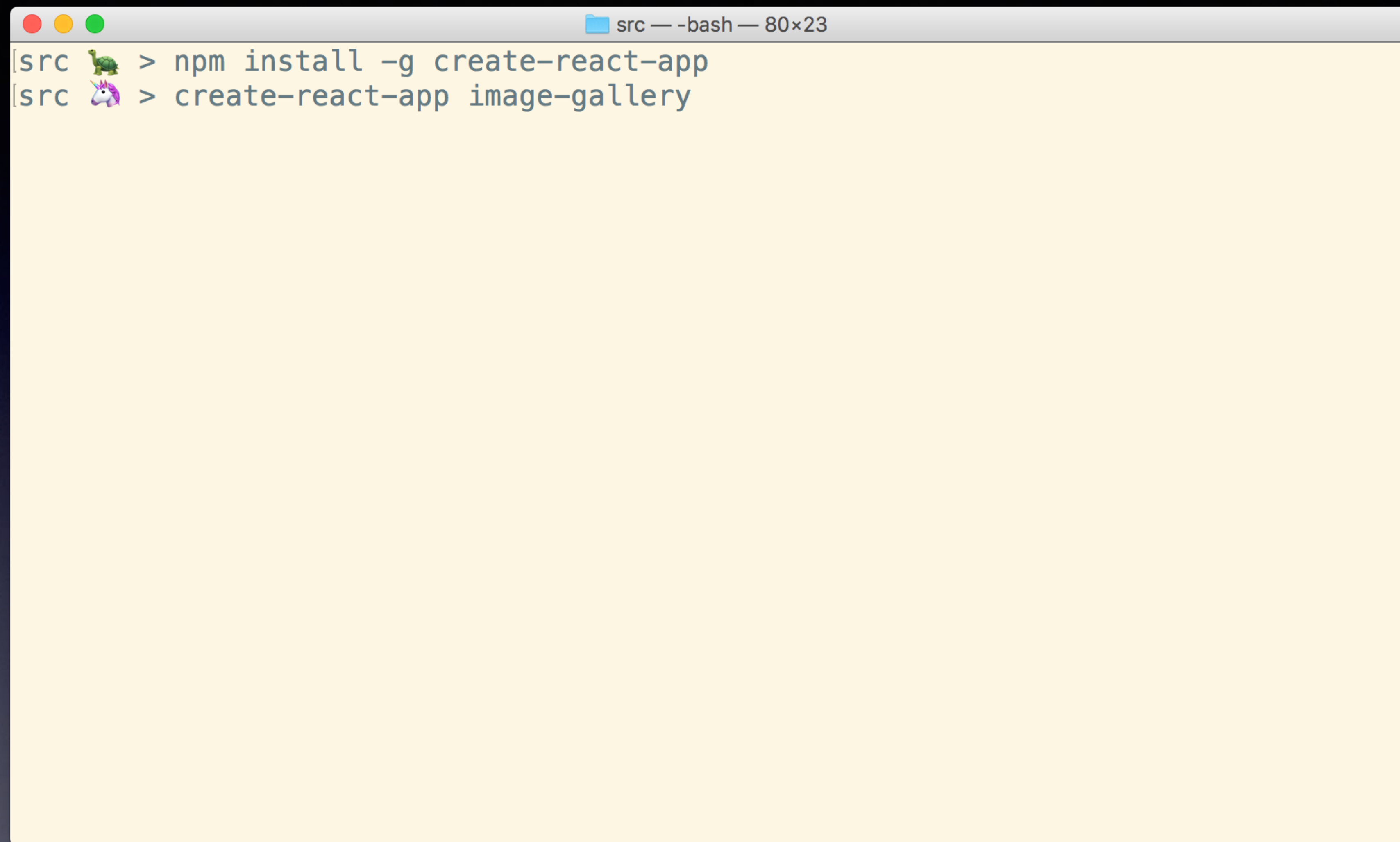
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We'll use the package manager **yarn** and **create-react-app** to setup our app.

With zero configuration this gives us the module bundler **webpack** to give us a **web server** with **live reloading** and **eslint** inside the browser, and **babel** to allow us to use **Modern Javascript**

A terminal window with a light gray title bar. The title bar contains three colored window control buttons (red, yellow, green) on the left, a blue folder icon followed by the text "src — -bash — 80x23" in the center, and a close button (X) on the right. The main area of the window is a light yellow background. The text "[src 🐱 > yarn create react-app image-gallery]" is displayed in a dark gray monospace font at the top left of the main area, with a closing bracket "]" at the far right.

```
[src 🐱 > yarn create react-app image-gallery]
```

```
src — -bash — 80x23
[src 🐢 > npm install -g create-react-app
[src 🦄 > create-react-app image-gallery
```

If **yarn create** doesn't work



src — -bash — 80x23

Inside that directory, you can run several commands:

`yarn start`

Starts the development server.

`yarn build`

Bundles the app into static files for production.

`yarn test`

Starts the test runner.

`yarn eject`

Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

`cd image-gallery`

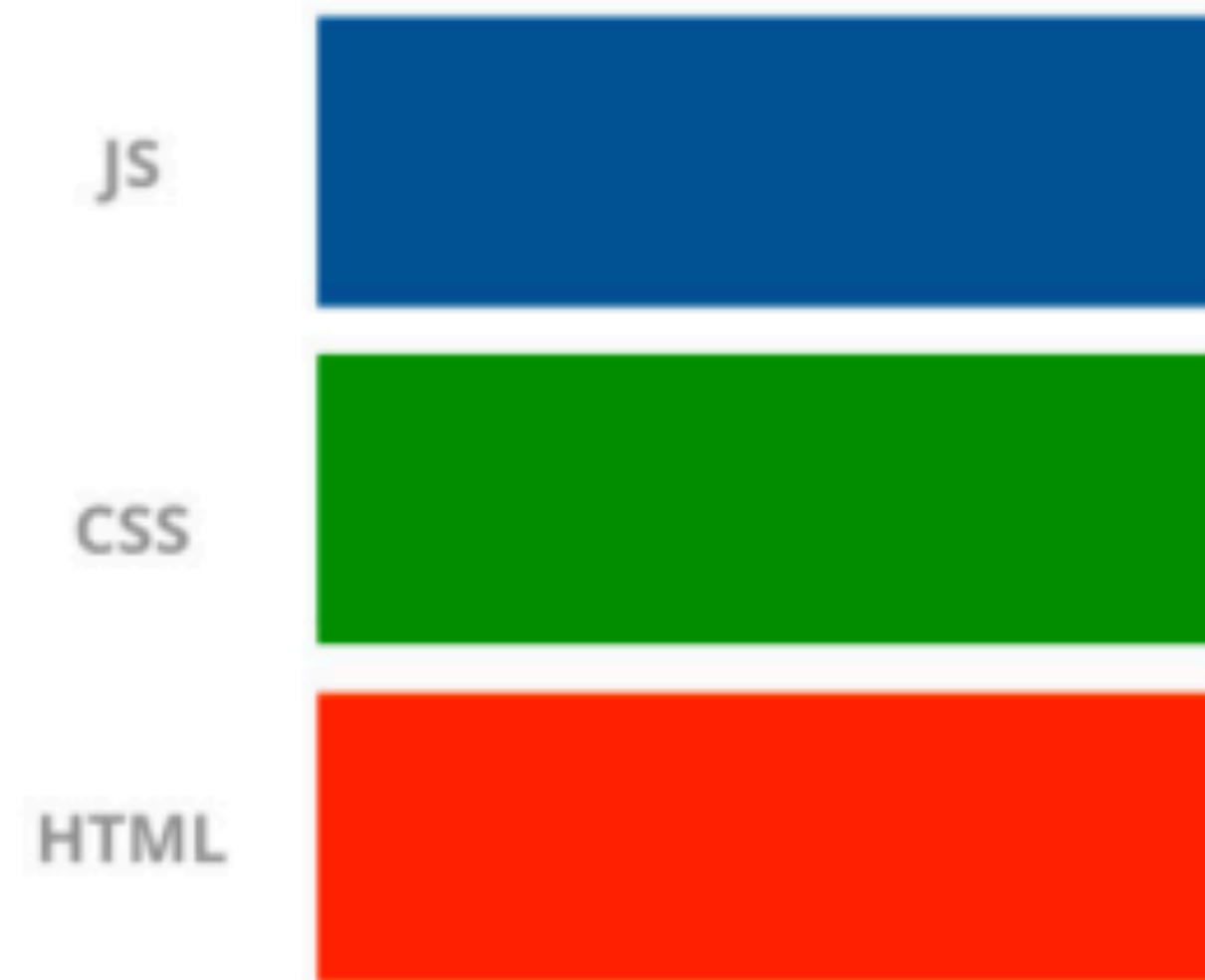
`yarn start`

Happy hacking!

✨ Done in 26.97s.

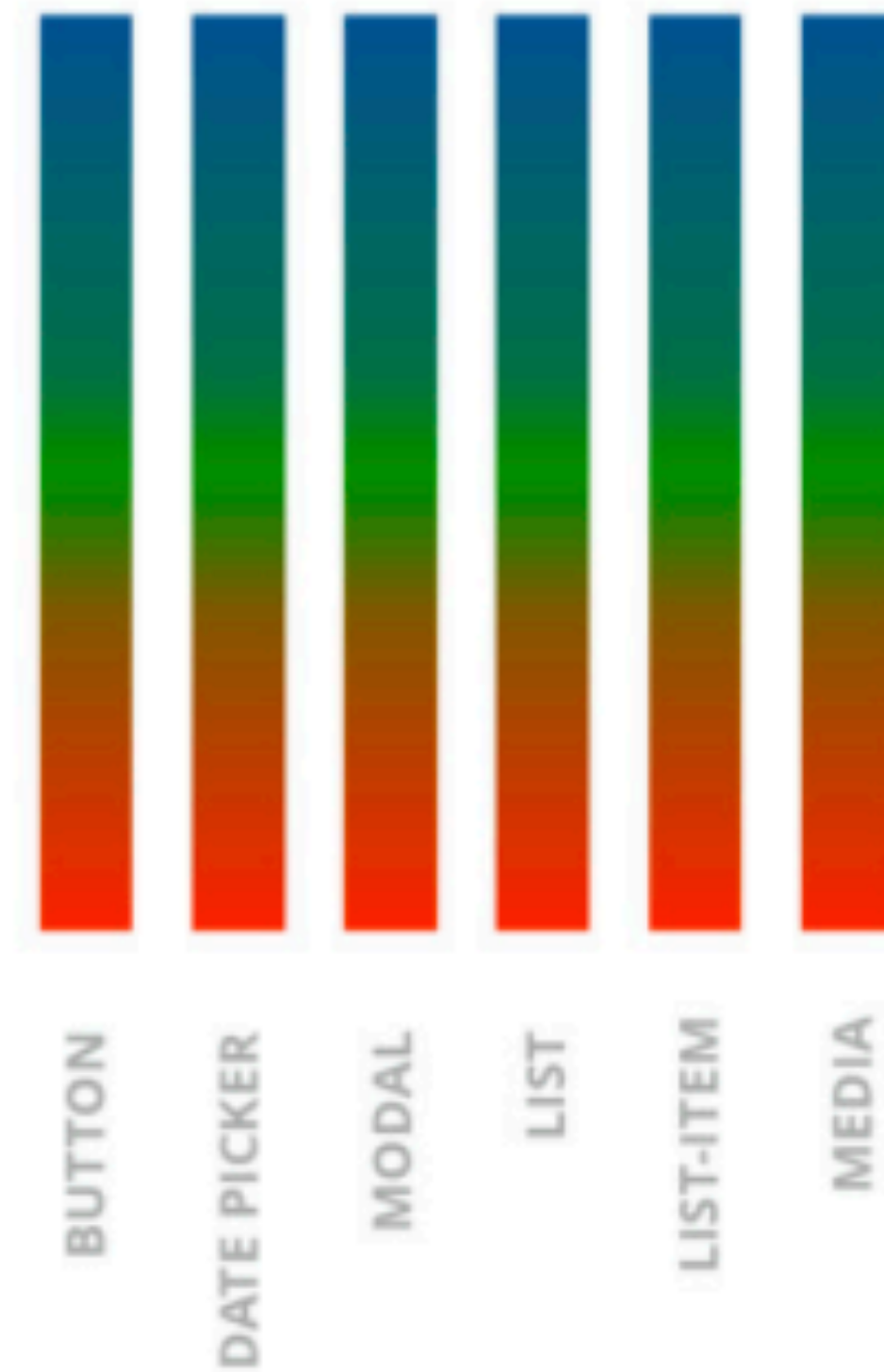
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Separation of Concerns



Separation of Concerns

(only, from a different point of view)

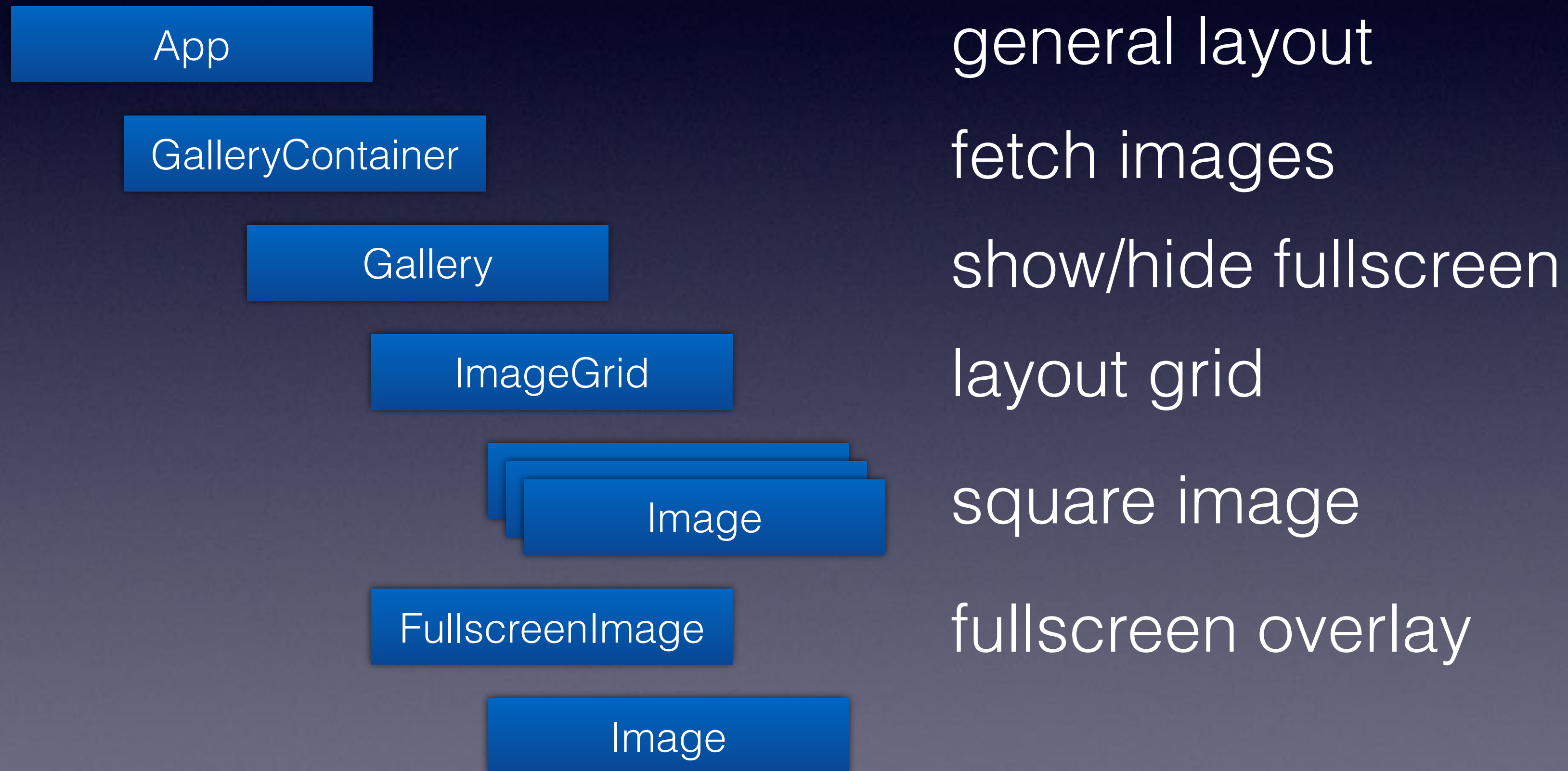


taken from [Let There Be Peace on CSS](#)

CSS in JS

- Inline styling using JavaScript objects
- Advantages
 - Colocated and isolated
 - Highly expressive
- Disadvantages
 - camelCase properties
 - Some CSS not supported, e.g. pseudo classes, media queries

ImageGallery app



Next steps

- Routing - react-router
- State management - redux

Some links

- [React Developer Tools](#) - Chrome extension
- https://medium.com/@dan_abramov/smart-and-dumb-components-7ca2f9a7c7d0 - Presentational and container components
- <https://runkit.com/ckuijjer/kitten-thumbnails> - Fetch from the Reddit API and convert into a JSON array of kitty images
- <https://js.coach/> - Curated catalog of React packages