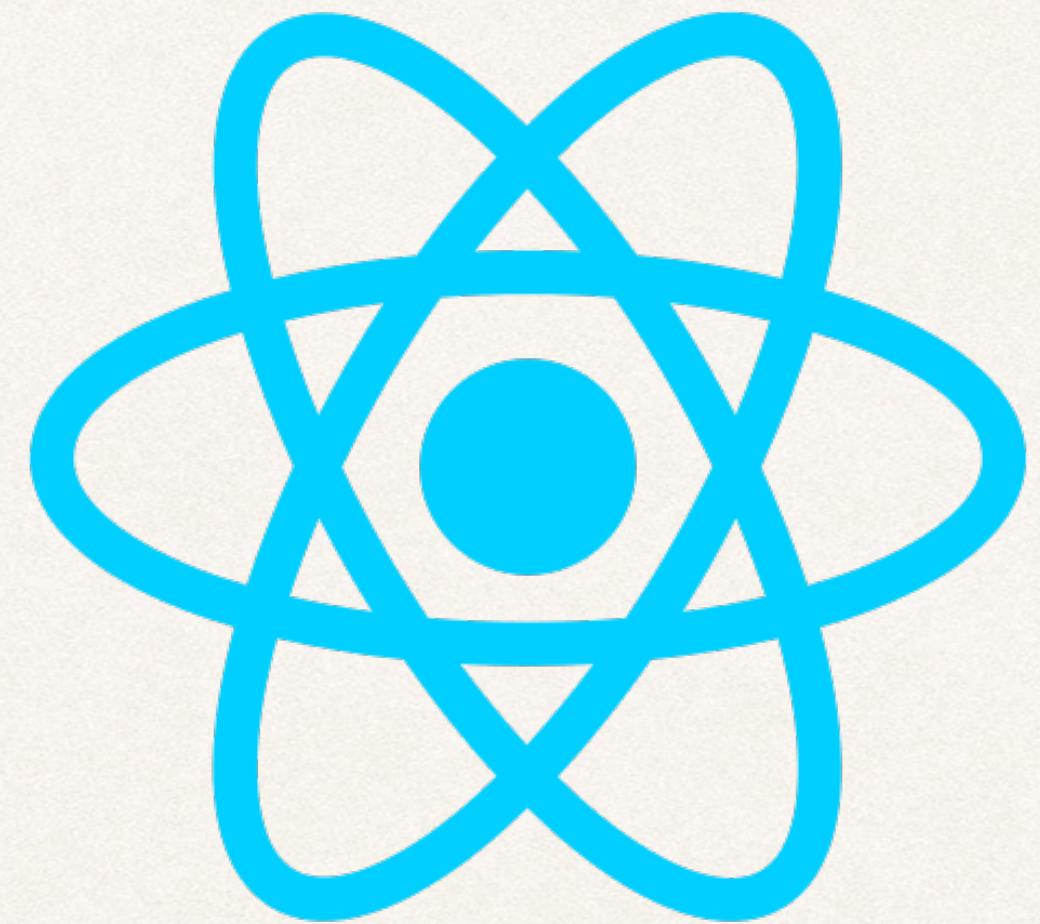


React - Getting Started



React

- React is a framework for building modern single-page applications

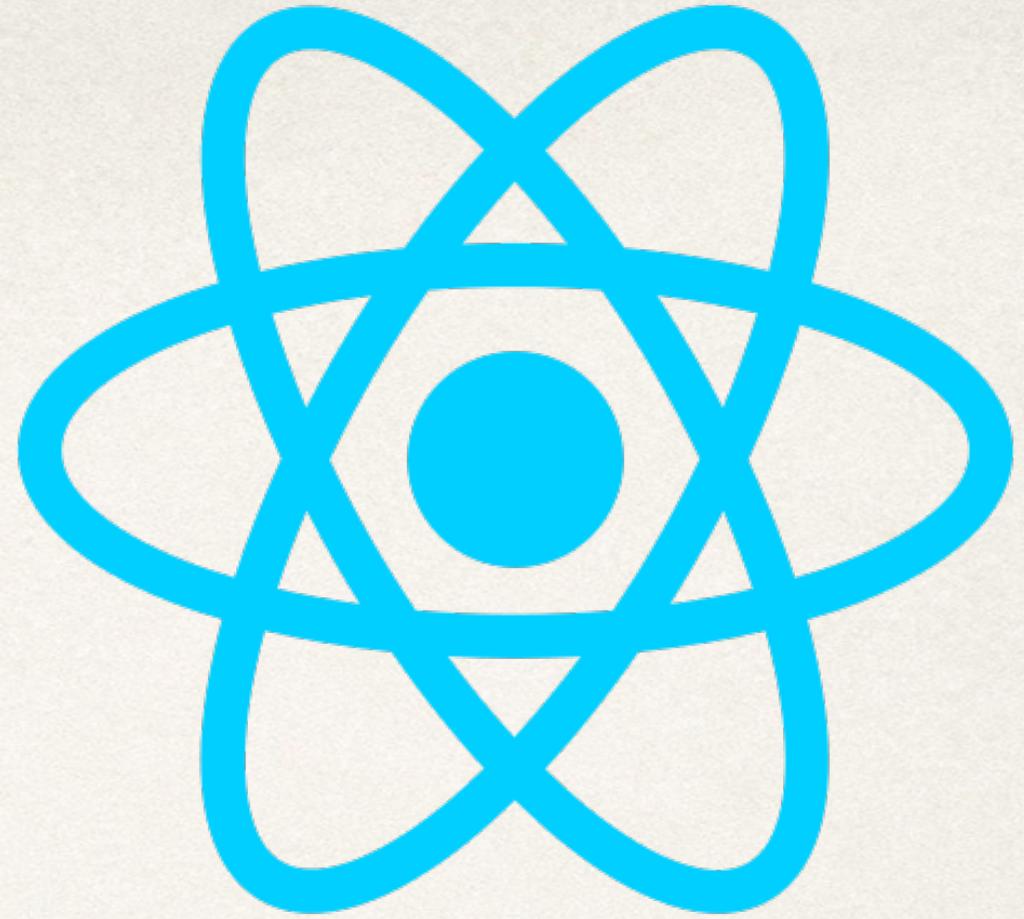


Official docs
Tutorials

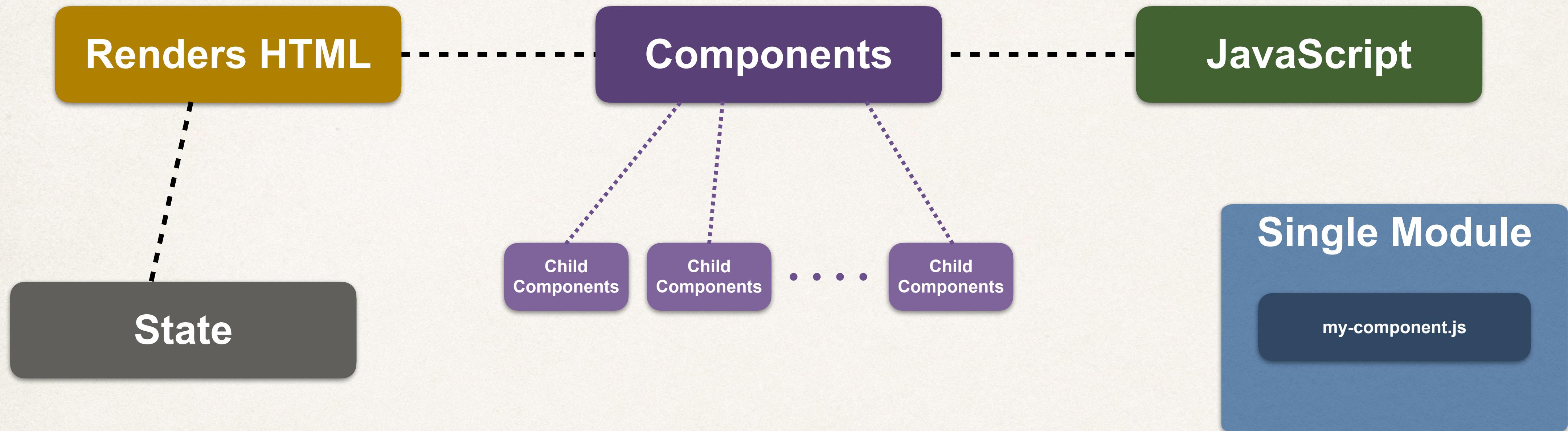
www.react.org

React Features

- Component-based framework
- Declarative views
- Component logic is written with JavaScript
- Supports responsive web design and modern frameworks
 - Bootstrap, Google Material Design and others ...



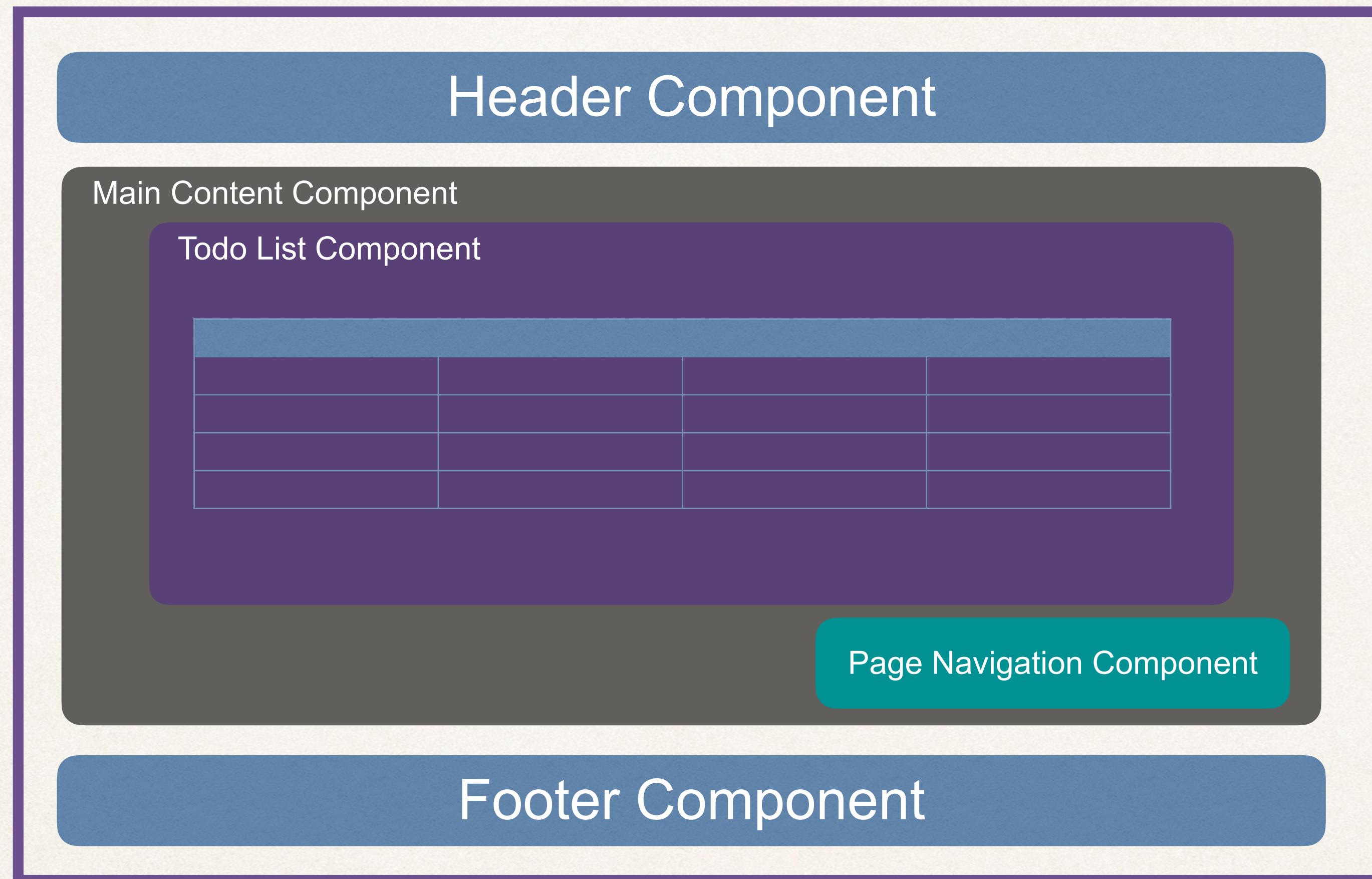
React Architecture



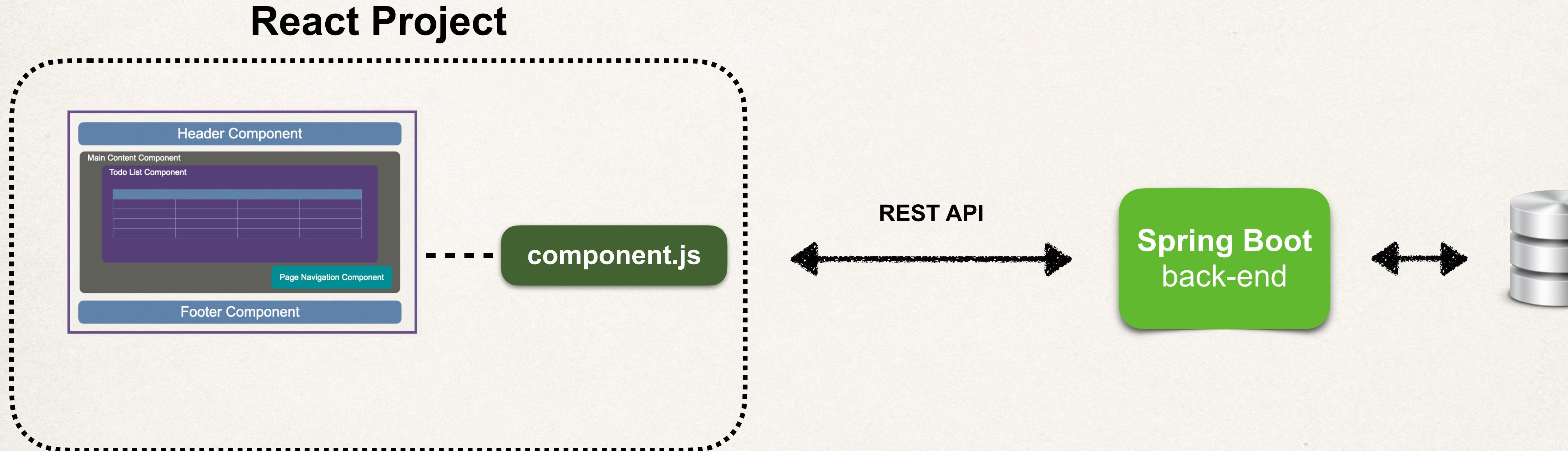
Key Terms

Term	Definition
Component	<p>Main player in an React application. Has two parts:</p> <ol style="list-style-type: none">1. View for user interface2. JavaScript that contains application logic / event handling for the view
Props	How we will pass data from a parent component to a child component
State	Contains data about the component. When the state changes, the component will re-render.
Hooks	A way to use local state and other React features without writing a new class
Module	A collection of related components, that create a specific view.

Application UI Composition



Application Interaction



React Project

- An React project is composed of multiple files



Creating an React Project

- React provides a command-line tool to generate a project
- Generates the starter files to help you bootstrap your project

Creating a React App is easy

Creating a new React application

```
> npx create-react-app my-app
```

Running your new React application

```
> cd my-app
```

```
> npm start
```

Creating a new React application

```
> npx create-react-app my-app
```

Creates a brand new React application without you having to do any build configurations!
Sweet!!

Running your new React application

```
> cd my-app
```

Jump into your new React application directory

```
> npm start
```

1. Builds the app (compile / transpile)
2. Starts the server
3. Watches the source files
4. Rebuilds the apps when source is updated (hot reload)

Changing the Server Port

```
> set PORT=5100 && npm start
```

Server listens on port 5100
<http://localhost:5100>

Project Files

```
MY-REACT-APP
  node_modules
  public
    favicon.ico
    index.html
    logo192.png
    logo512.png
    manifest.json
    robots.txt
  src
    App.css
    App.js
    App.test.js
    index.css
    index.js
    logo.svg
    reportWebVitals.js
    setupTests.js
  .gitignore
  package-lock.json
  package.json
  README.md
```

Holds all installed libraries from node pack manager (npm)

The HTML and DOM for the React

Used to prevent search engine and bots to crawl

The main root component. Hooks onto the index

We can skip

Files

Lock dependencies to a specific version

Your personal README for your React project :-)