

npm

gulp

webpack

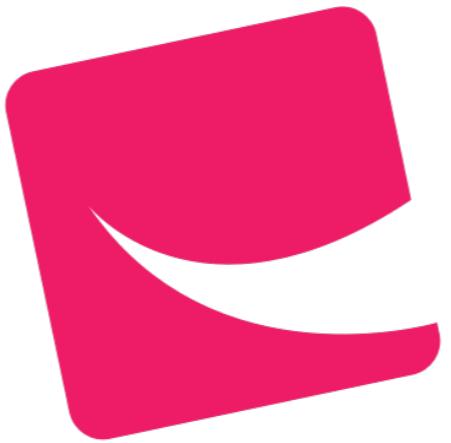
what the heck?

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Javascript hacker

Lead frontend
at Ulabox





ulabox



**“it’s tempting,
if the only tool
you have is a 
to treat everything as
if it were a nail”**

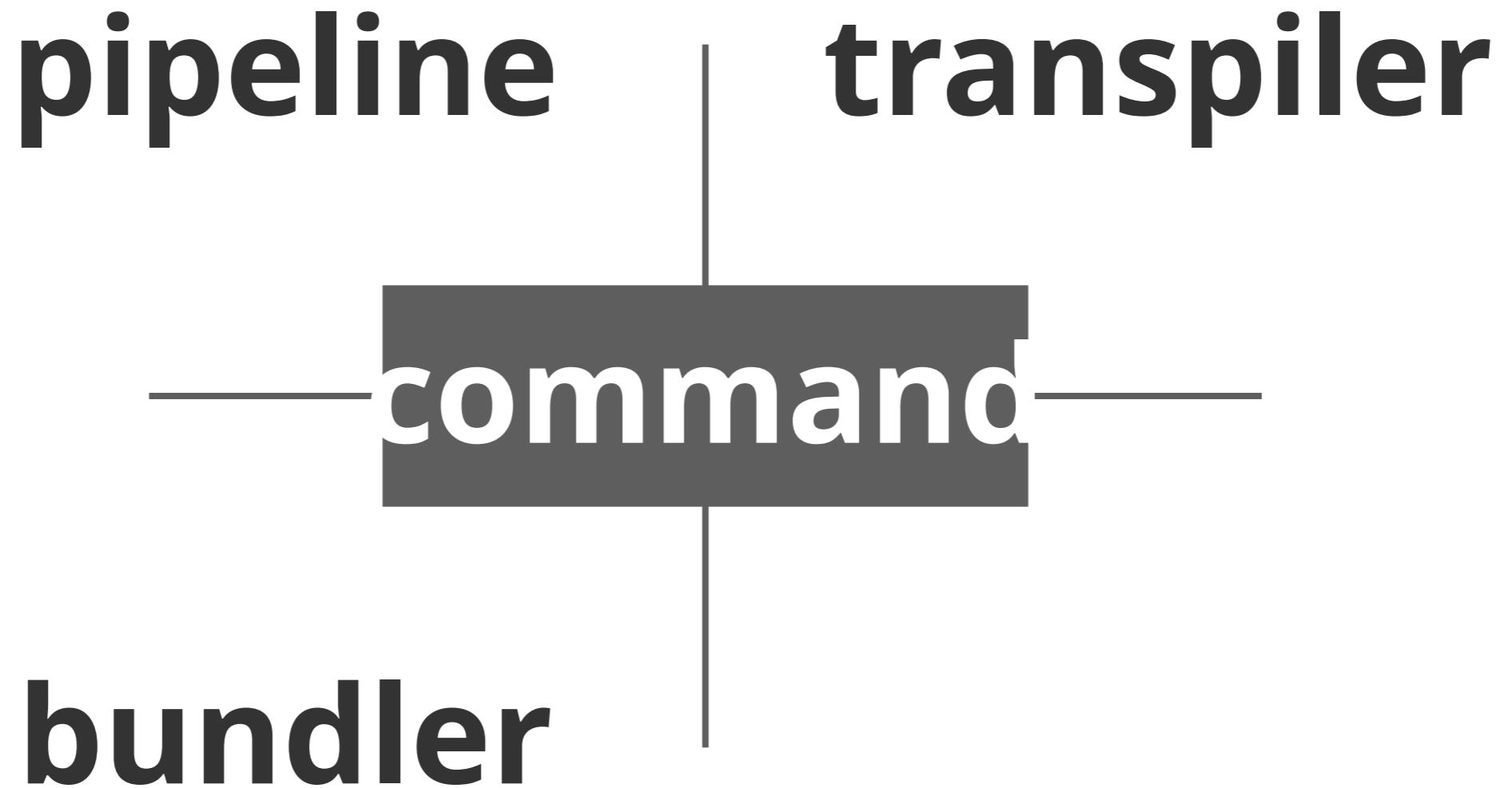
command

pipeline

— **command** —

pipeline | **transpiler**





pipeline

transpiler

command

bundler

scaffolder

command

npm && bash



manageable tasks

```
// app.js
ReactDOM.render(
  React.createElement('h1', {
    children: 'Holis command (:'
  }),
  document.getElementById('root')
)
```

```
// index.html
<div id='root'></div>

<!-- Gotcha! -->
<script src="https://fb.me/react-15.0.1.js"></script>
<script src="https://fb.me/react-dom-15.0.1.js"></script>

<script src="./app.js"></script>
```



```
"scripts": {  
  "start": "open index.html",  
  "test": "node app.spec.js"  
}
```

pipeline

gulp && grunt



commands chains



**Pipelines are
commands with
superpowers**

npm install gulp

```
const gulp = require('gulp')
const rename = require('gulp-rename')
const uglify = require('gulp-uglify')

gulp.task('default', function () {
  return gulp.src('app.js')
    .pipe(uglify())
    .pipe(rename({ extname: '.min.js' }))
    .pipe(gulp.dest('./build'))
})
```

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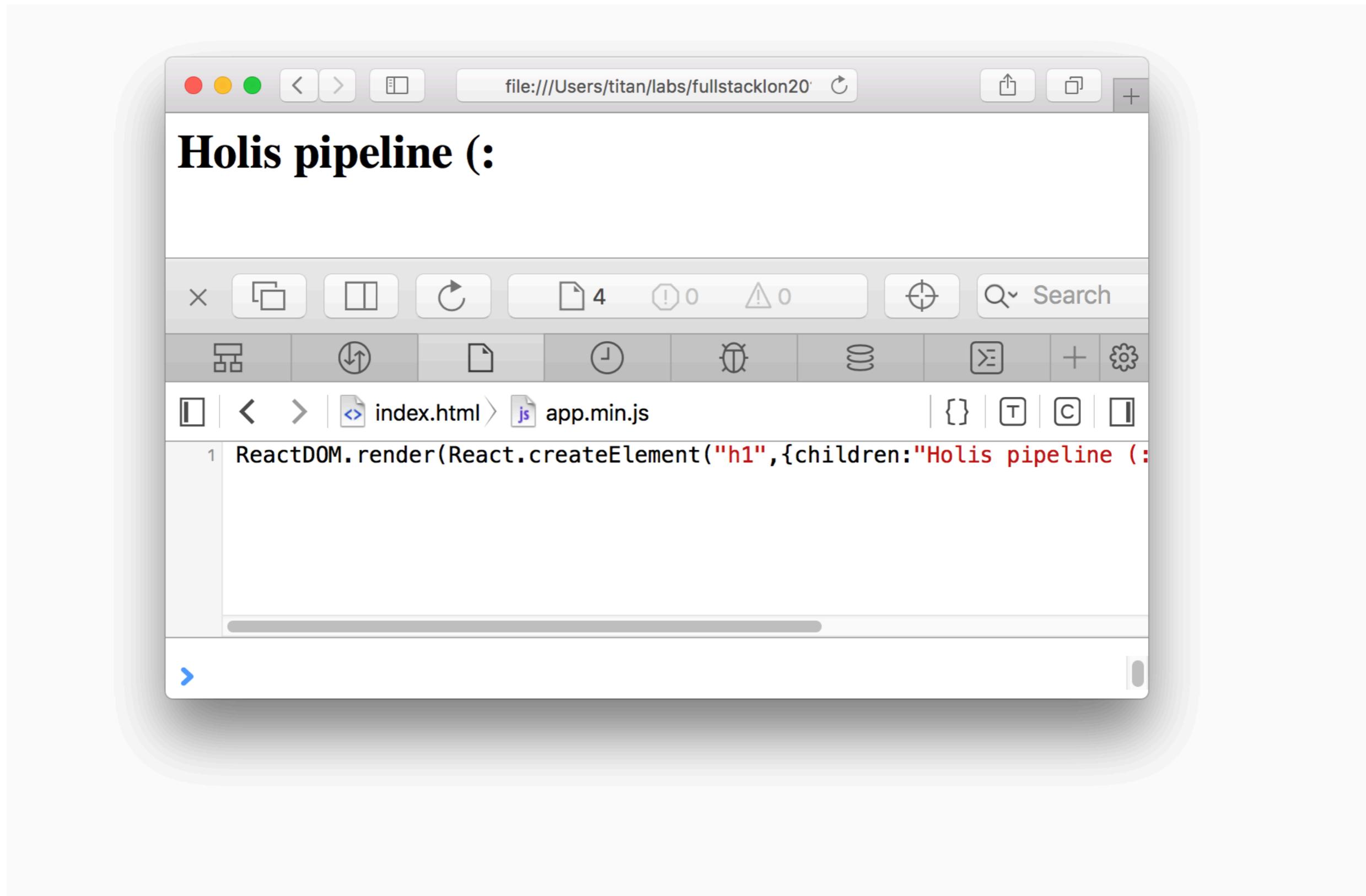
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    .pipe(gulp.dest('./build'))
})
```

```
"scripts": {  
  "start": "open index.html",  
  "test": "node app.spec.js",  
  "build": "gulp"  
}
```



transpiler

babel



code transformers

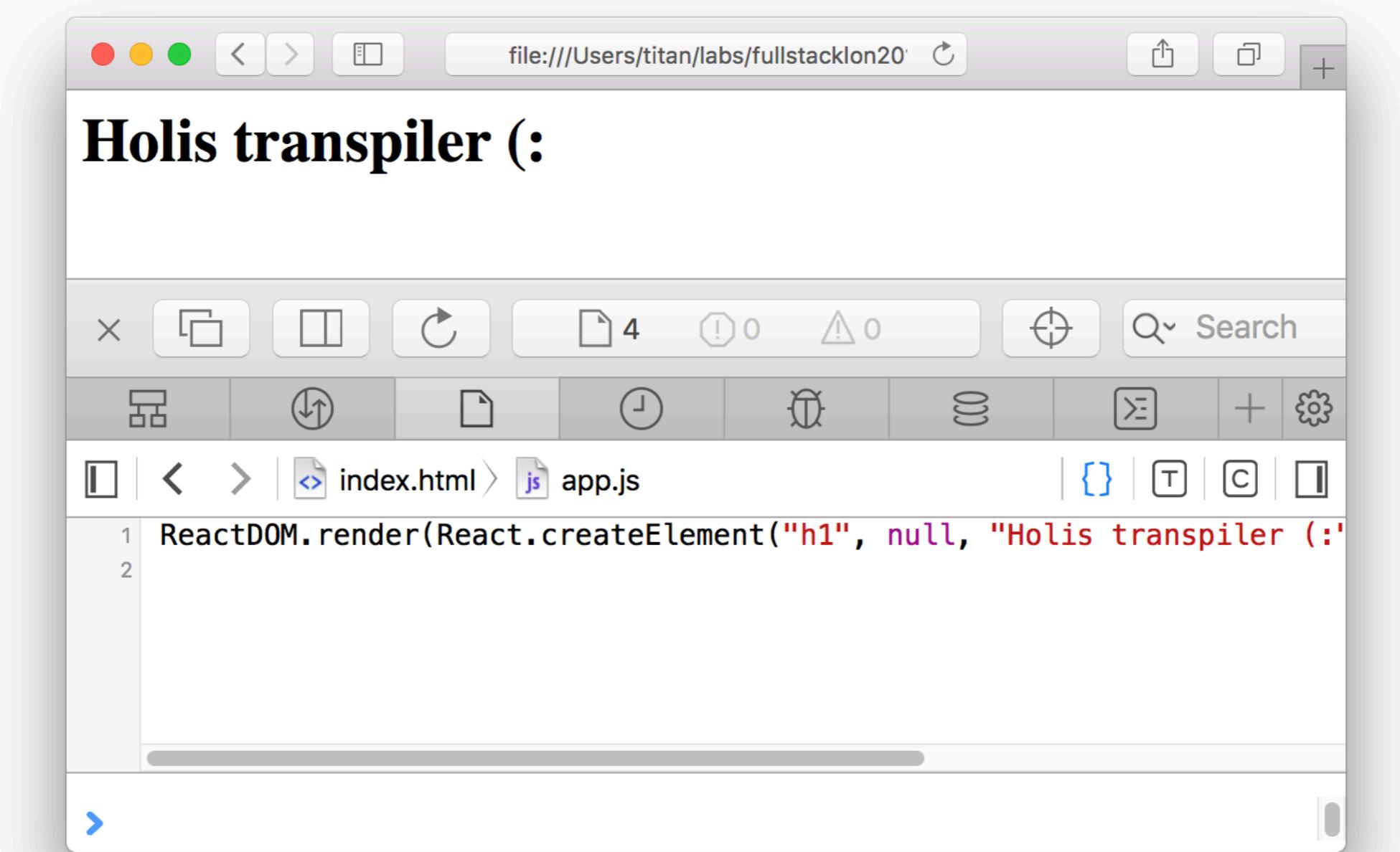
```
npm install  
  babel-cli  
  babel-preset-react
```

```
ReactDOM.render(  
  <h1>Holis transpiler (:</h1>,  
  document.getElementById('root'))  
)
```

```
"scripts": {  
    "start": "open index.html",  
    "test": "node app.spec.js",  
    "prebuild": "mkdirp build",  
    "build": "babel app.js  
              -o build/app.js  
              --presets=react",  
    "postbuild": "uglifyjs  
                 build/app.js -o build/app.js"  
}
```

```
"scripts": {  
    "start": "open index.html",  
    "test": "node app.spec.js",  
    "prebuild": "mkdirp build",  
    "build": "babel app.js  
              -o build/app.js  
              --presets=react",  
    "postbuild": "uglifyjs  
                 build/app.js -o build/app.js"  
}
```

```
"scripts": {  
    "start": "open index.html",  
    "test": "node app.spec.js",  
    "prebuild    "build        -o build/app.js  
        --presets=react",  
    "postbuild        build/app.js -o build/app.js"  
}
```





**So far and we don't
even need Webpack**

bundler

webpack && rollup
&& fuse-box



module compilers

```
npm install webpack
```

```
const React = require('react')
const ReactDOM = require('react-dom')

ReactDOM.render(
  React.createElement('h1', {
    children: 'Holis bundler (:'
  }),
  document.getElementById('root')
)
```

```
<div id='root'></div>
```

```
<script src="./build/app.js"></script>
```

```
"scripts": {  
  "start": "open index.html",  
  "test": "node app.spec.js",  
  "build": "webpack app.js build/app.js"  
},
```

```
"scripts": {  
  "start": "open index.html",  
  "test": "node app.spec.js",  
  "build": "webpack app.js build/app.js"  
},
```

A screenshot of a web browser window displaying a file:///Users/titan/labs/fullstacklon20... URL. The page title is "Holis bundler (:". The browser interface includes standard OS X window controls (red, yellow, green buttons), a toolbar with icons for file operations, a status bar showing two files open, and a search field. Below the toolbar is a toolbar with various icons for file management. The main content area shows a code editor with the following JavaScript code:

```
1 //***** (function(modules) { // webpackBootstrap
2 //***** // The module cache
3 //***** var installedModules = {};
4 //***** 
5 //***** // The require function
6 //***** function __webpack_require__(moduleId) {
7 //*****
```

front

front | back

front | back | library

rollup

```
"scripts": {  
    "start": "open index.html",  
    "test": "node app.spec.js",  
    "build": "rollup app.js  
              --format iife  
              --output build/app.js"  
},
```



**Favour Webpack for
products and
consider Rollup for
libraries**

scaffolder

brunch && yeoman
&& create-react-app



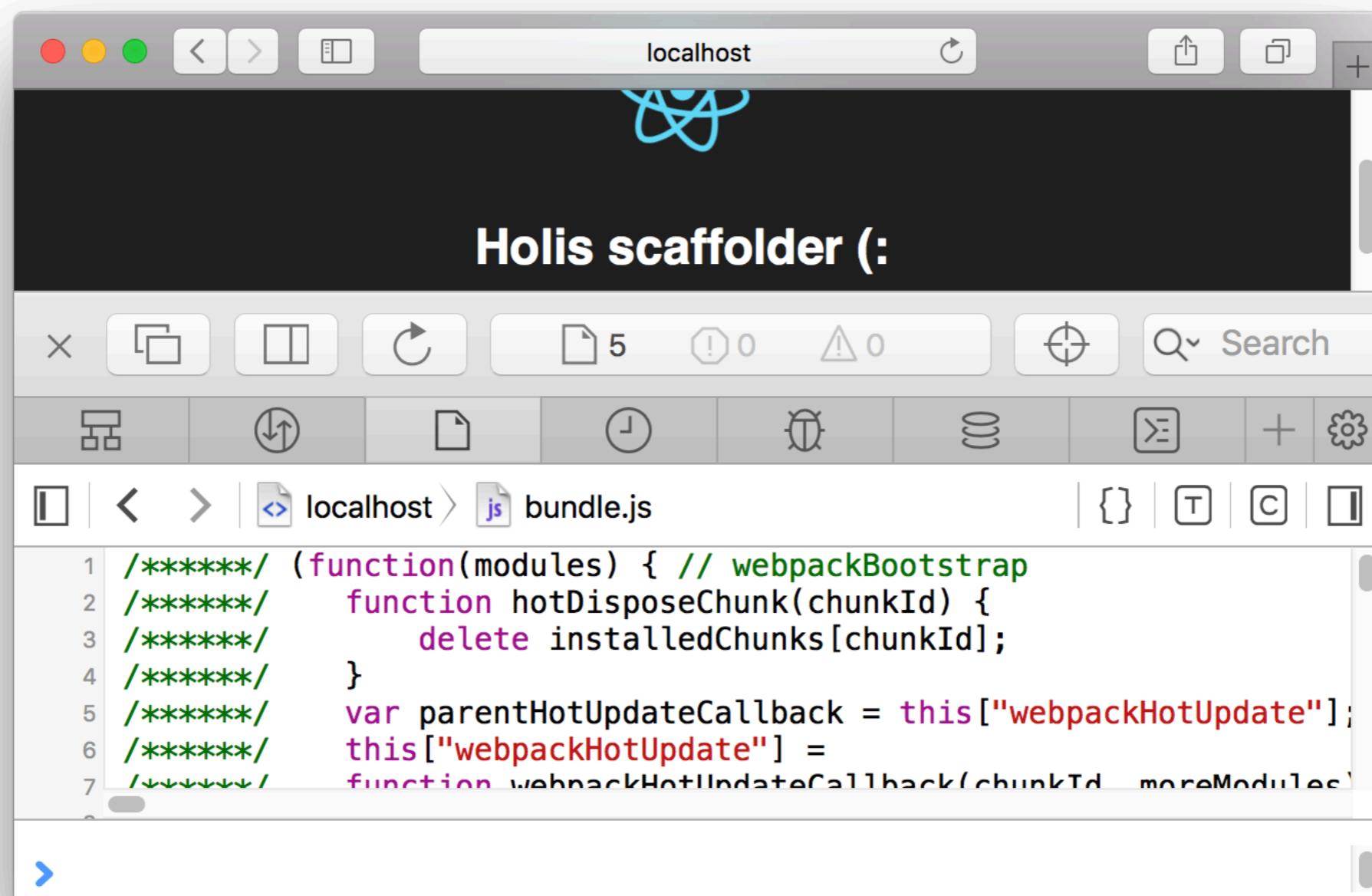
boilerplate generators

```
npm i -g create-react-app  
create-react-app project-name
```

```
npm i -g create-react-app  
create-react-app project-name
```

```
npm i -g brunch  
brunch new project-name -s es6
```

```
npm i -g yo generator-webapp  
yo webapp
```



The screenshot shows a browser window with the address bar set to "localhost". The main content area displays a developer tools interface for a file named "bundle.js". The title bar of the interface reads "Holis scaffolder (:". The toolbar above the editor includes icons for close, minimize, maximize, refresh, and various developer features like search and file operations. The status bar at the bottom shows a progress indicator with a blue arrow pointing right.

```
1 //webpackBootstrap
2 function hotDisposeChunk(chunkId) {
3     delete installedChunks[chunkId];
4 }
5 var parentHotUpdateCallback = this["webpackHotUpdate"];
6 this["webpackHotUpdate"] =
7 function webpackHotUpdateCallback(chunkId, moreModules)
```



```
npm install --global lerna  
lerna init
```



Thank you

@sospedra_r