

Intro to ReactJS

ReactJS Bangkok 1.0.0



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storylog
Storytelling Community

Fictionlog

UNLEASH YOUR IMAGINATION

FICTIONLOG | FICTION PUBLISHING PLATFORM

How website works?



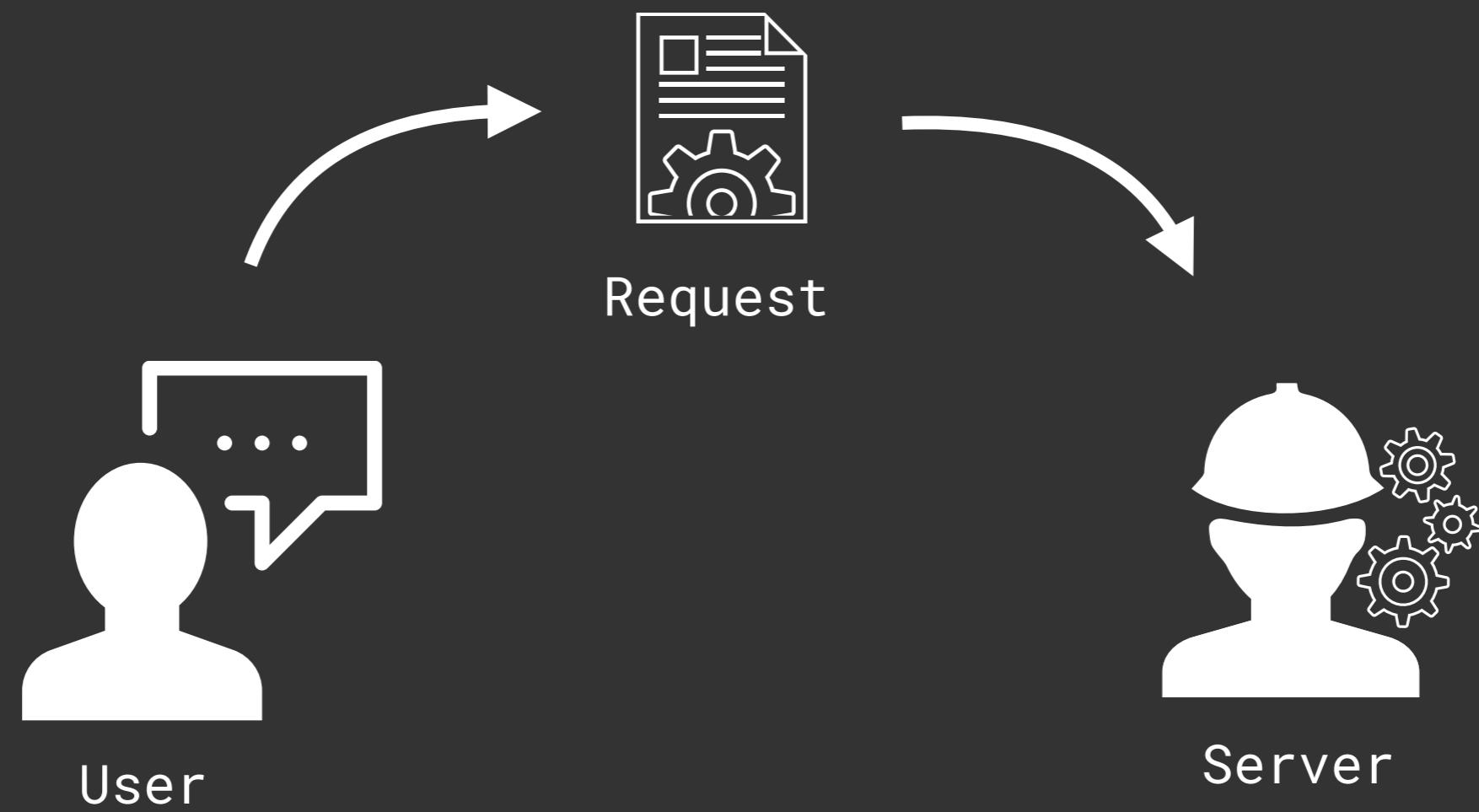
User



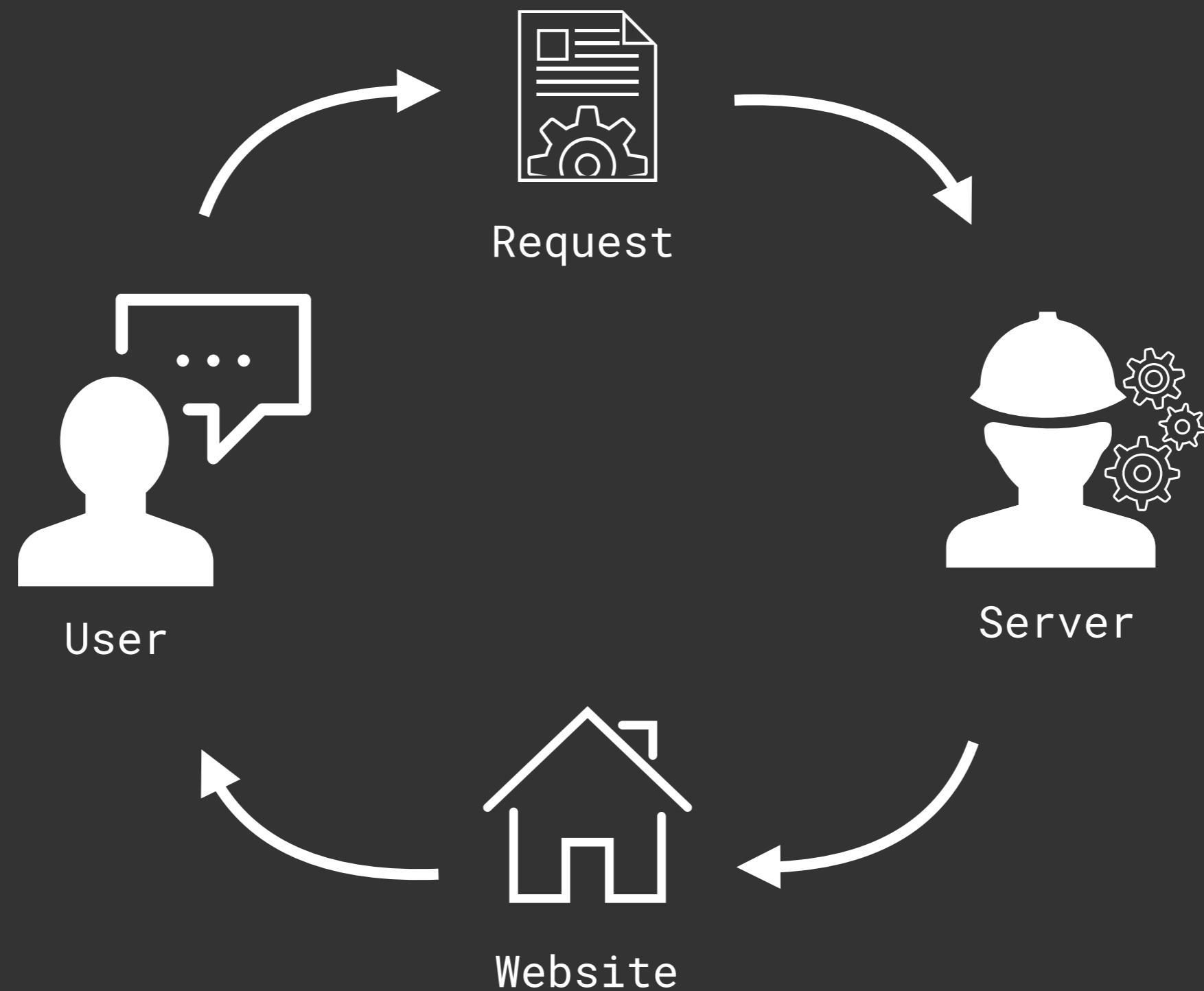
User

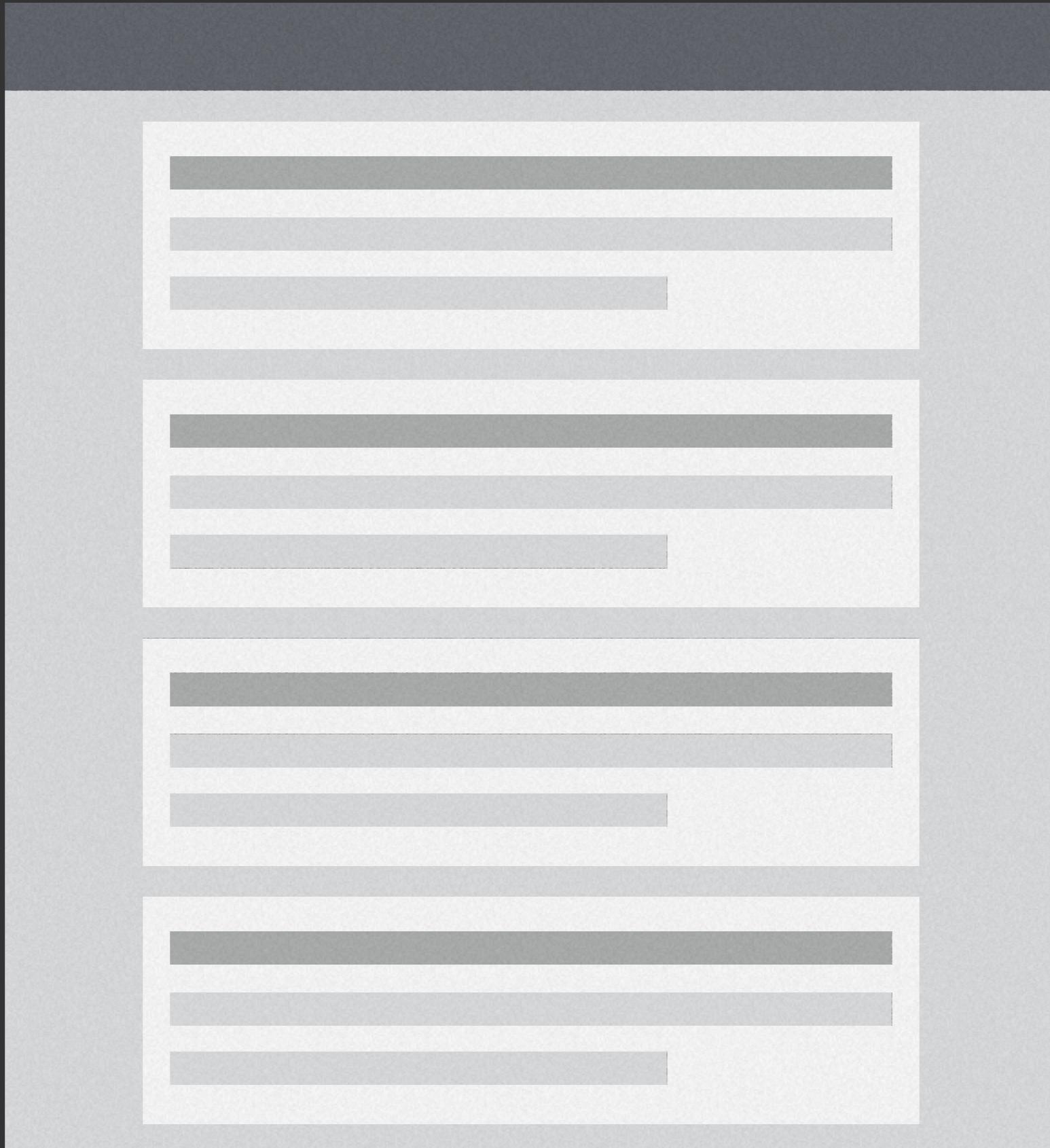


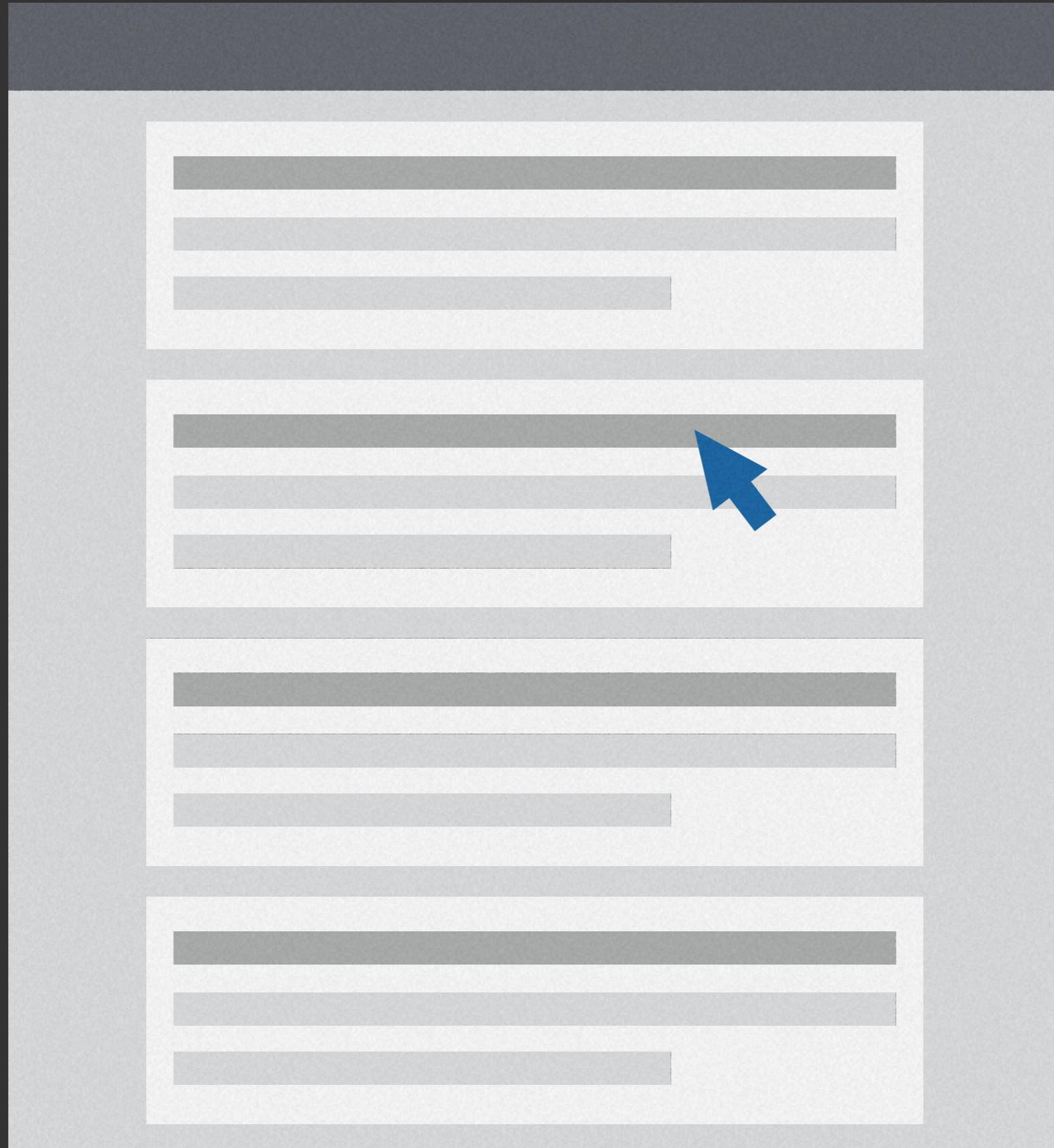
Server

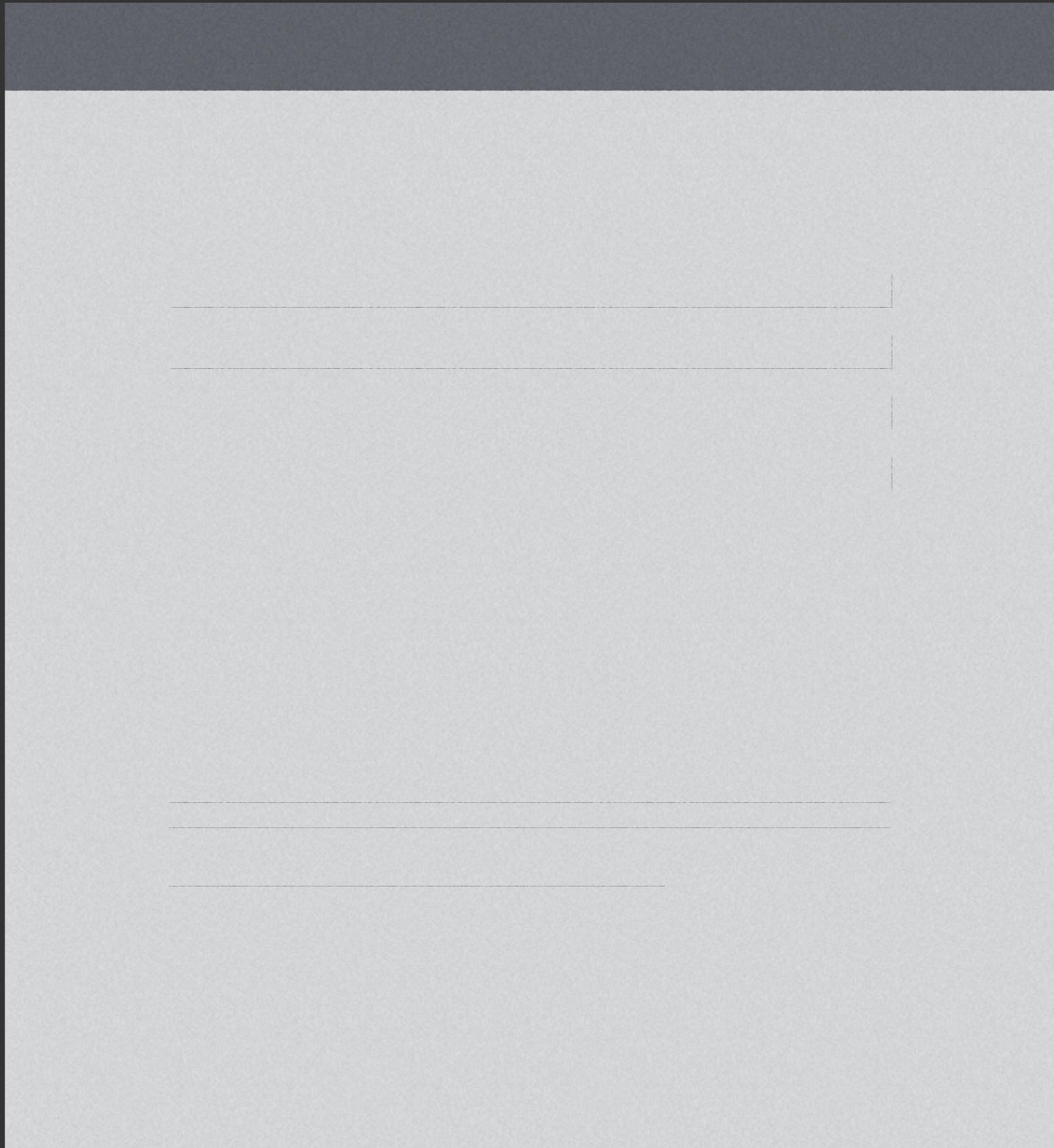


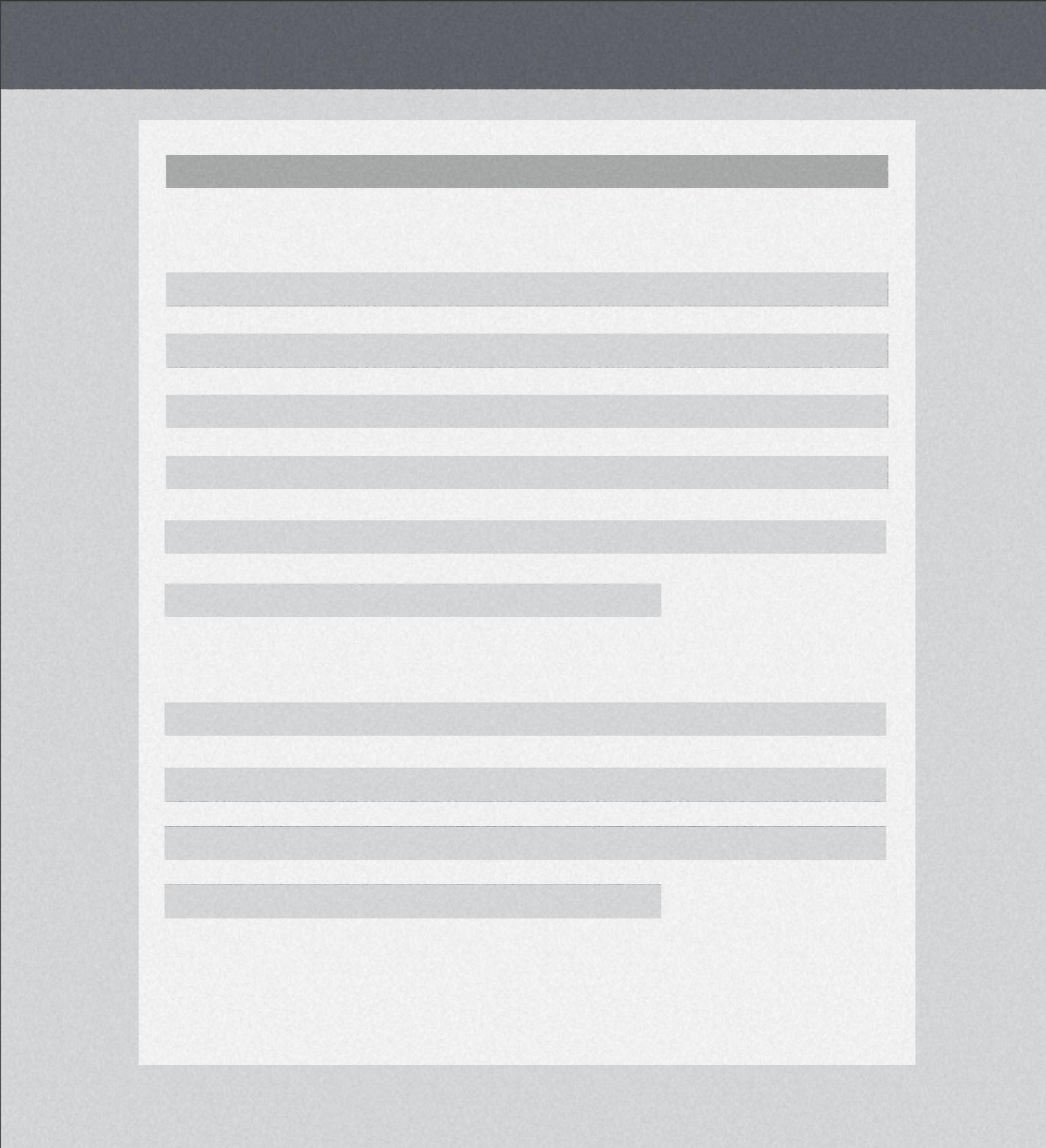












What is SPA?

Single Page Application

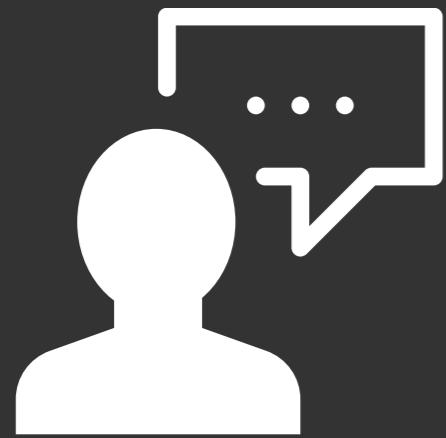


User



Server



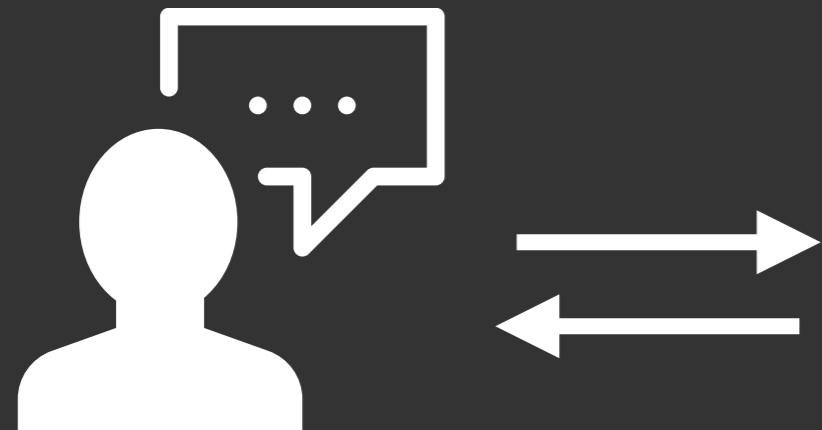


User



Server





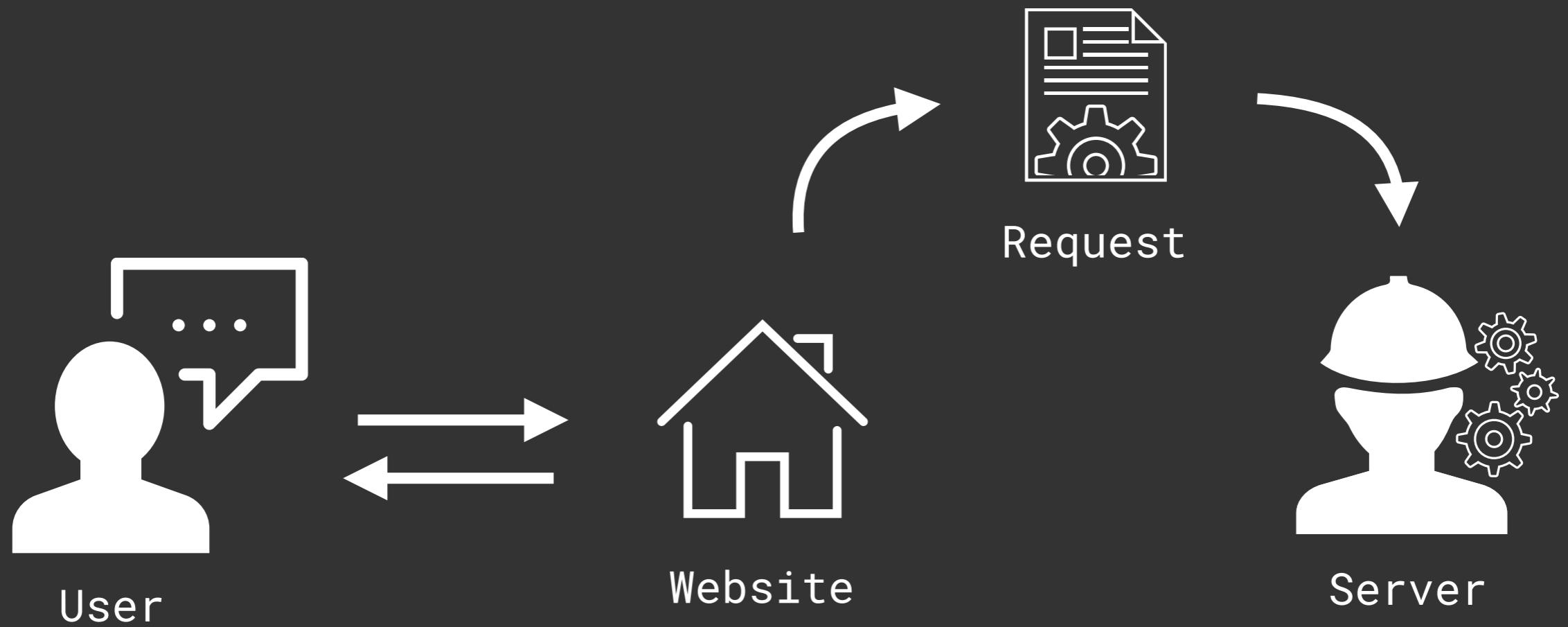
User

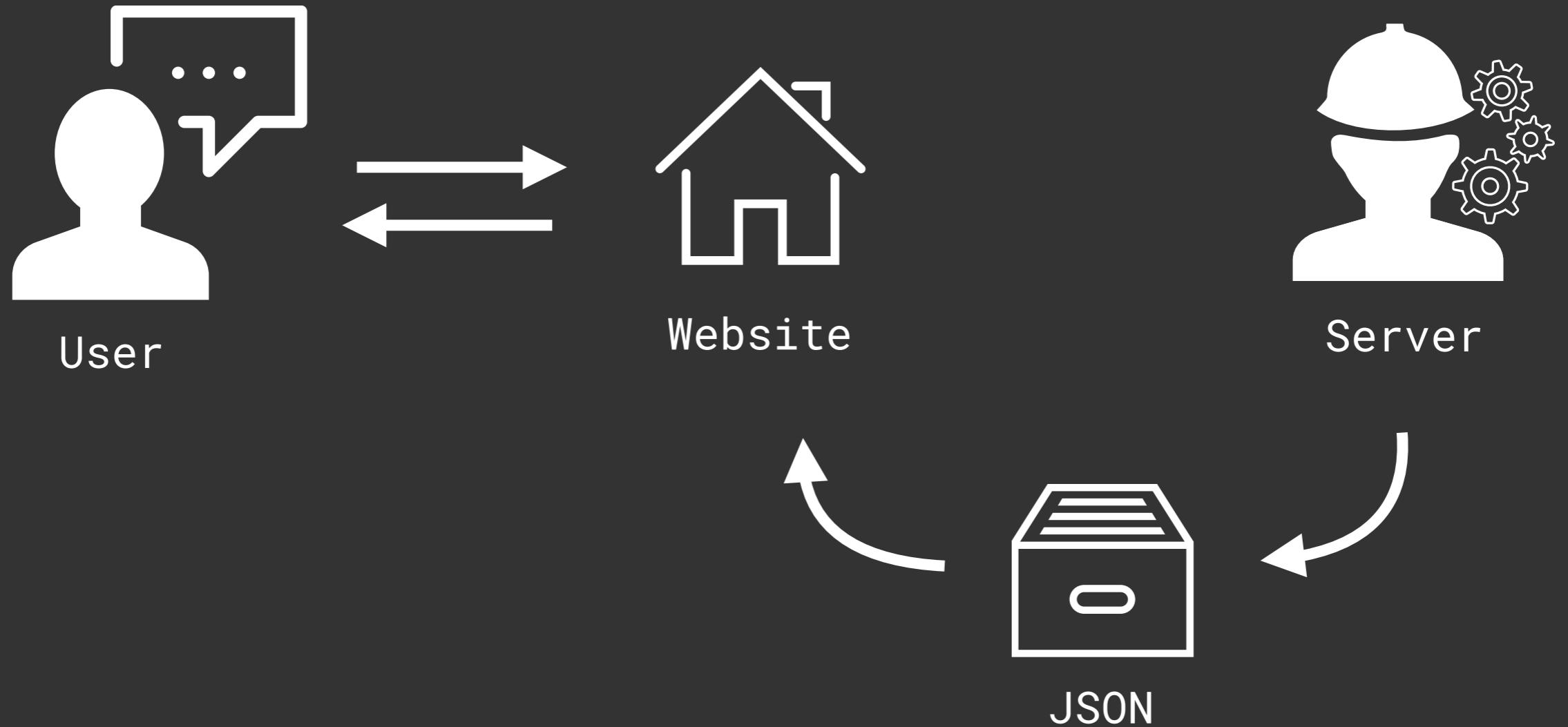


Website



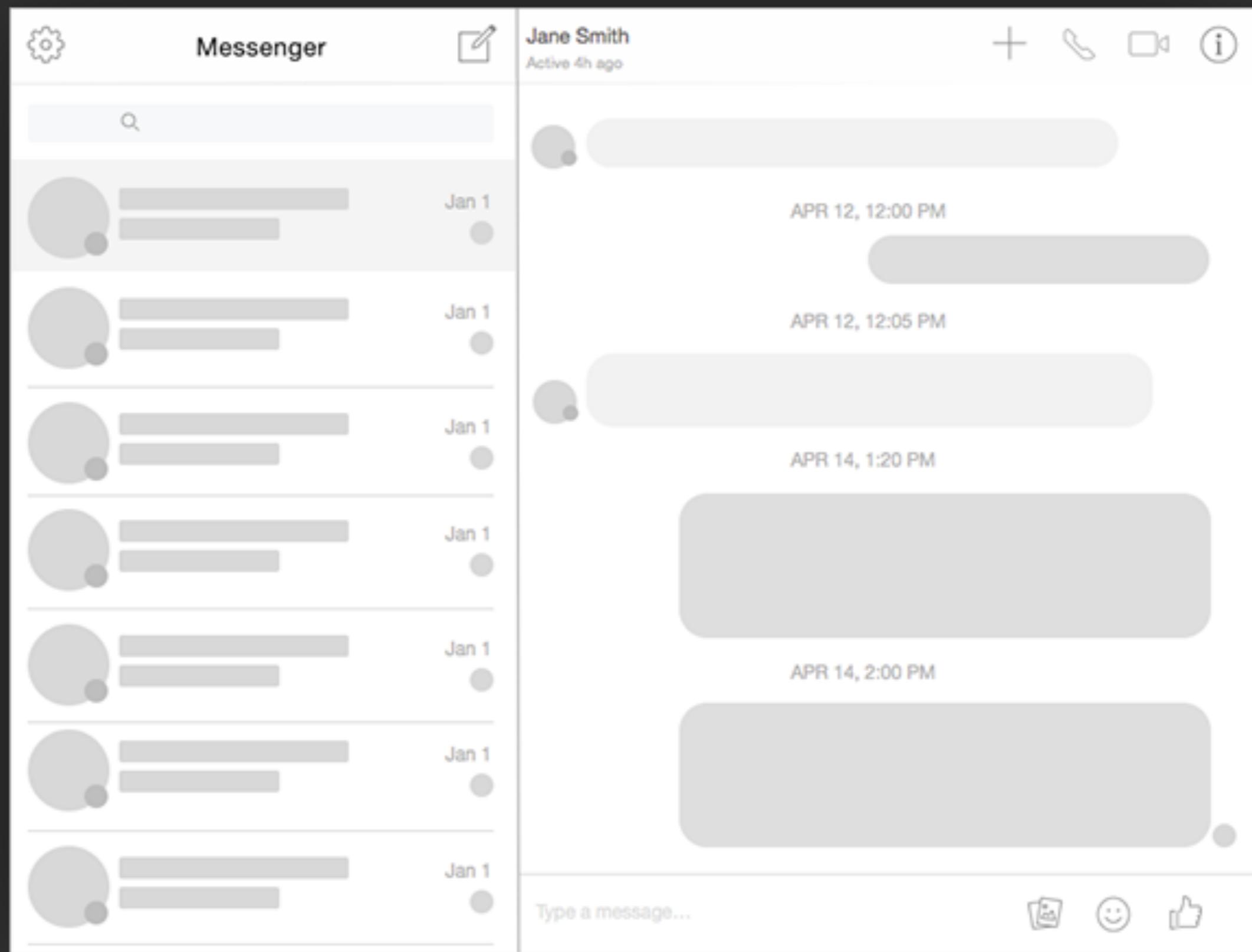
Server



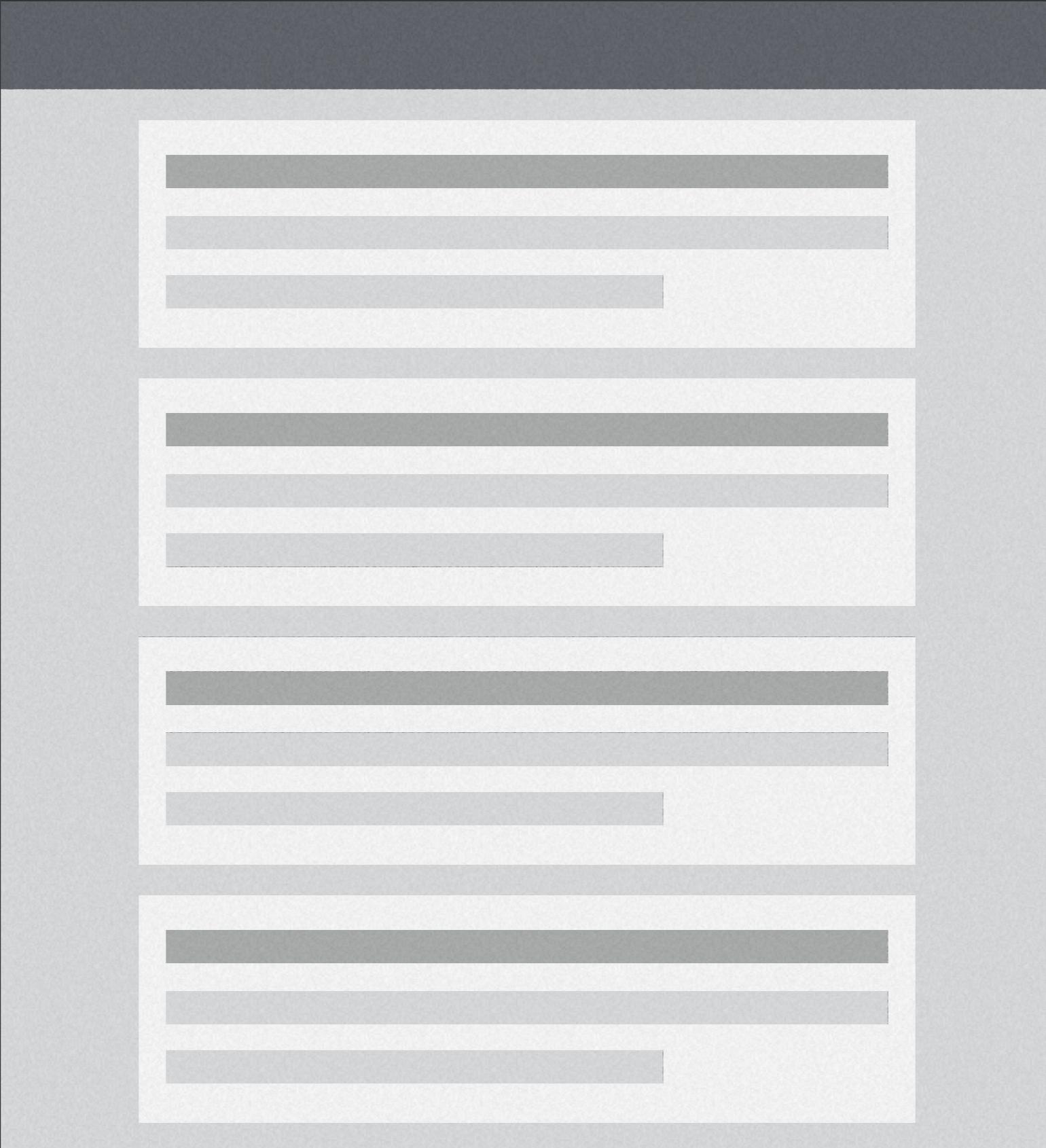


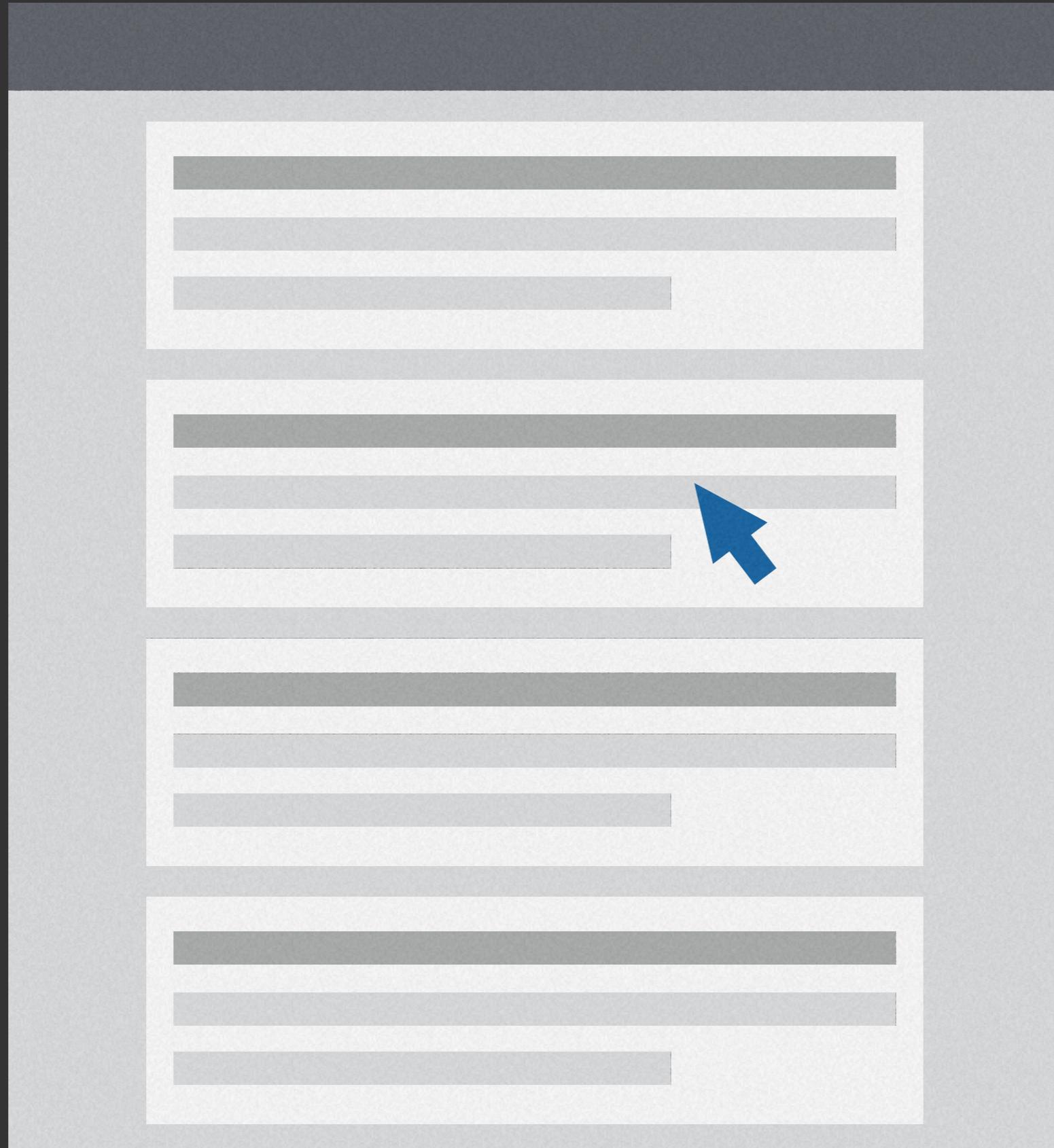


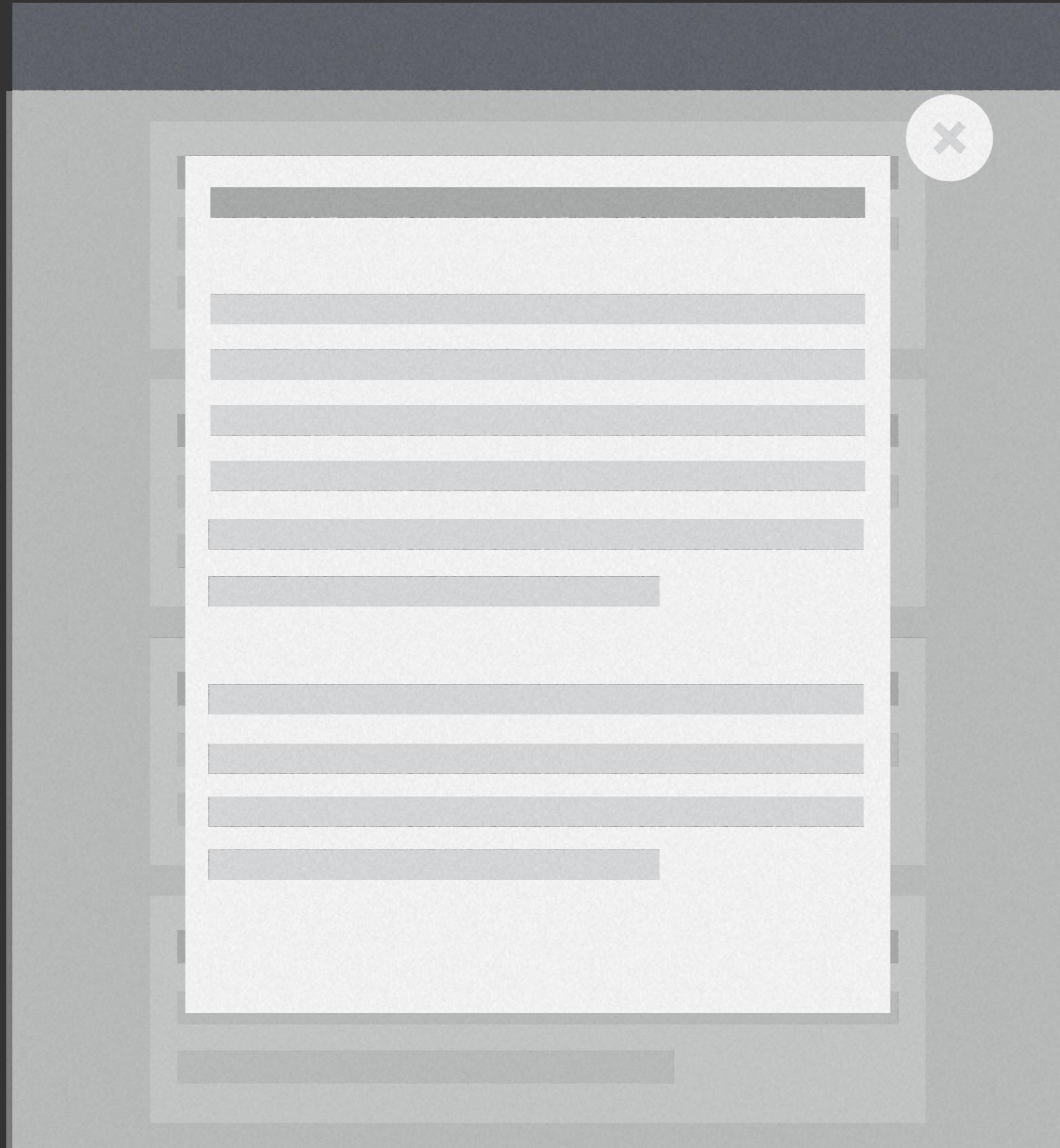


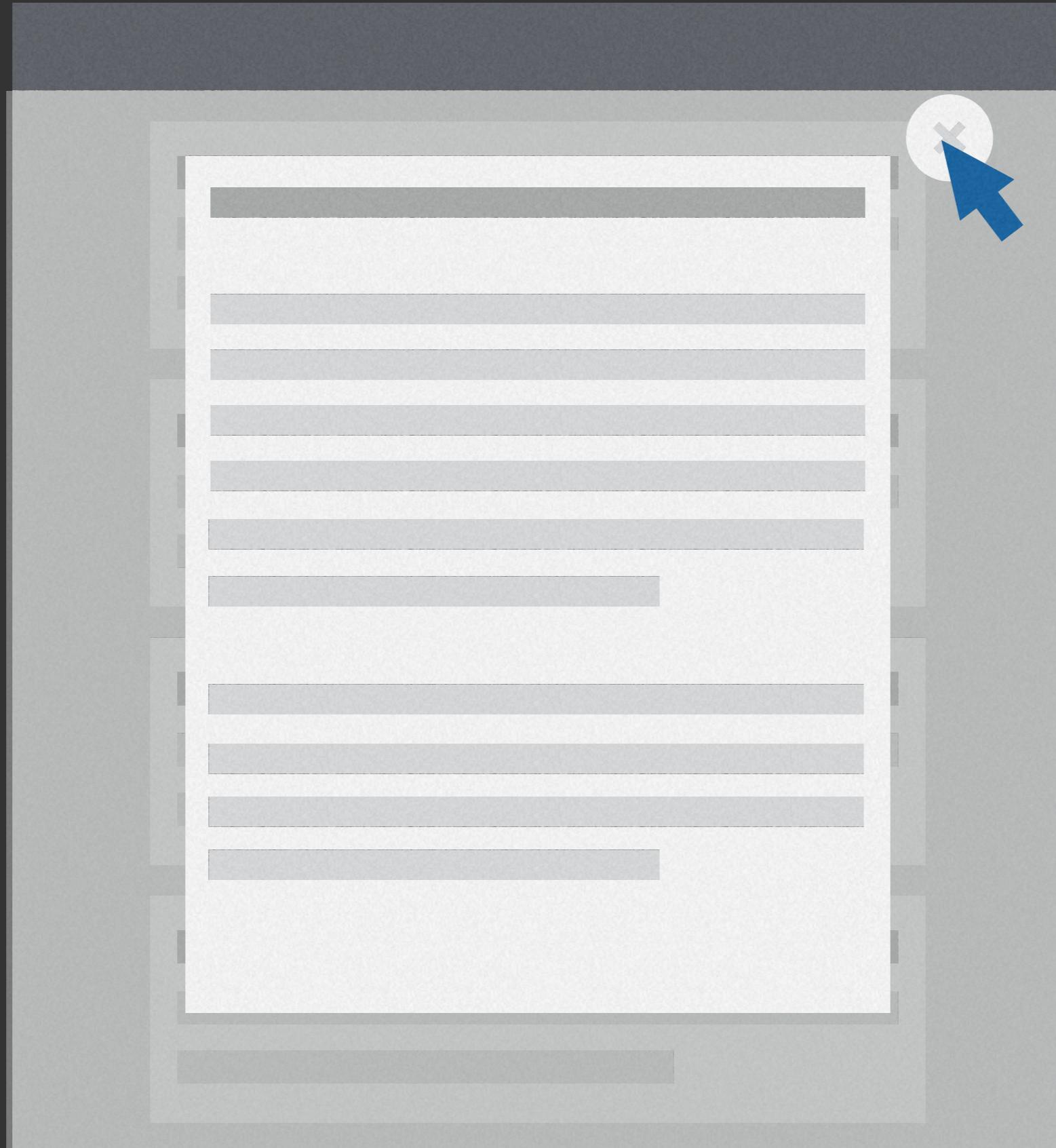


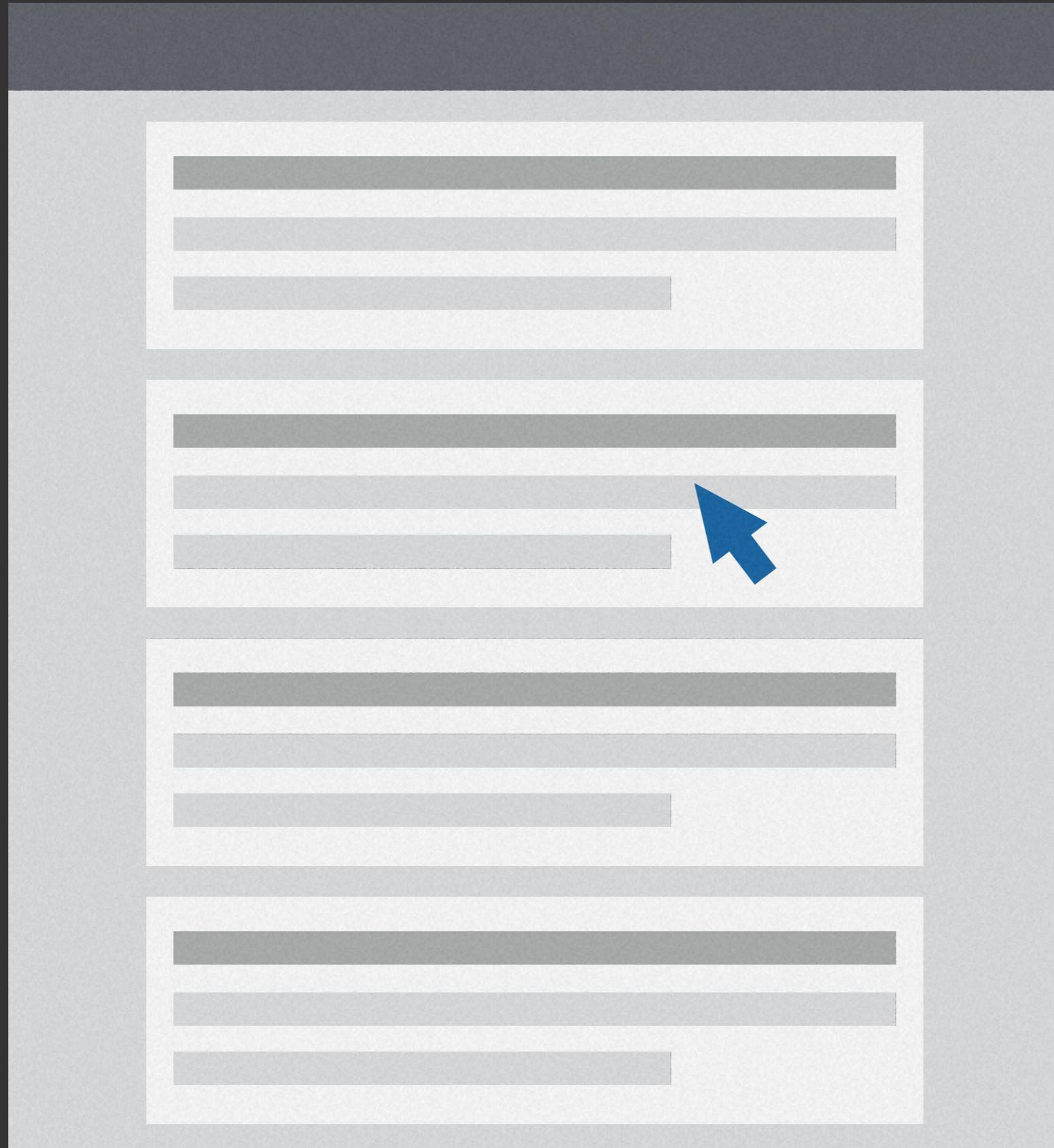




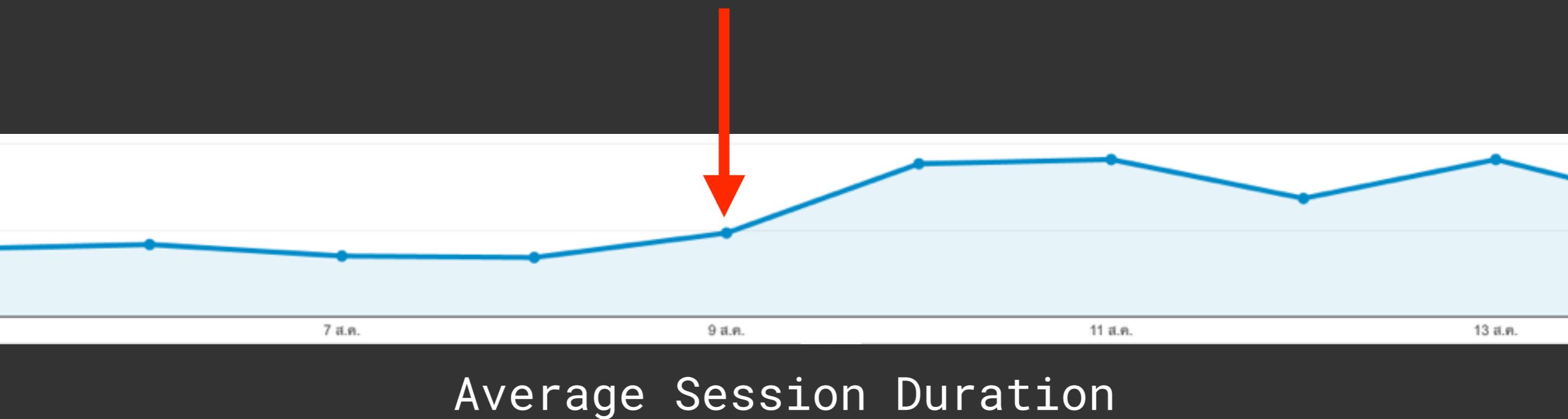








Start using SPA



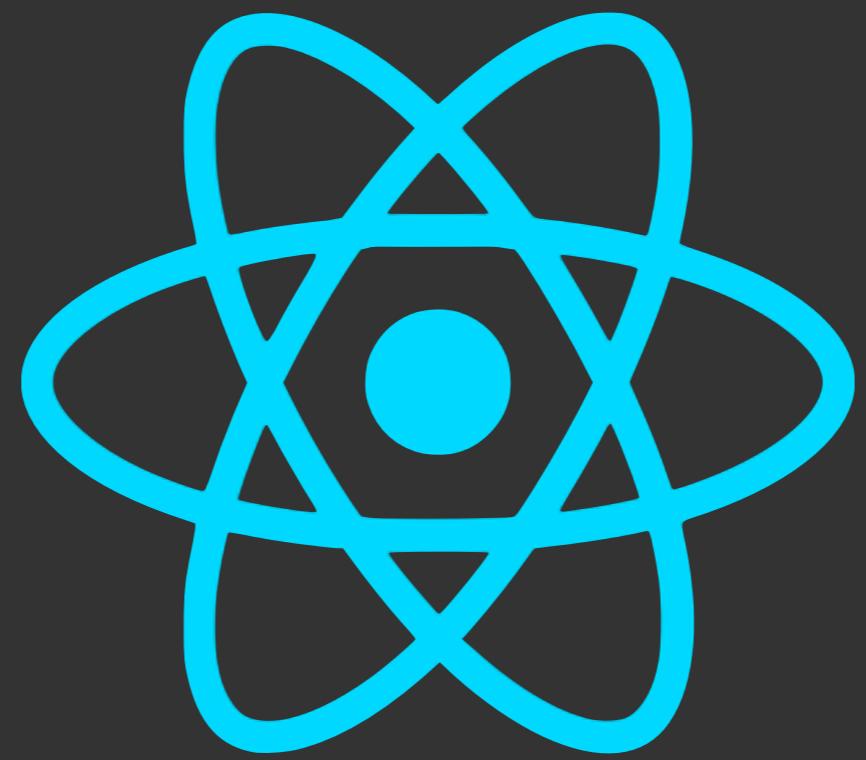
Start using SPA

Average Session
Duration

+200%







ReactJS



Result|



Result|



Result 1

Result 2

Result 3

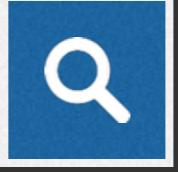
Result 4







```
$( "#dropdown" ).focus(function () {  
    $( "#search_result" ).show();  
});
```



```
$( "#dropdown" ).focus(function () {  
    $( "#search_result" ).show();  
});  
  
$( "#dropdown" ).blur(function () {  
    $( "#search_result" ).hide();  
});
```

Result |



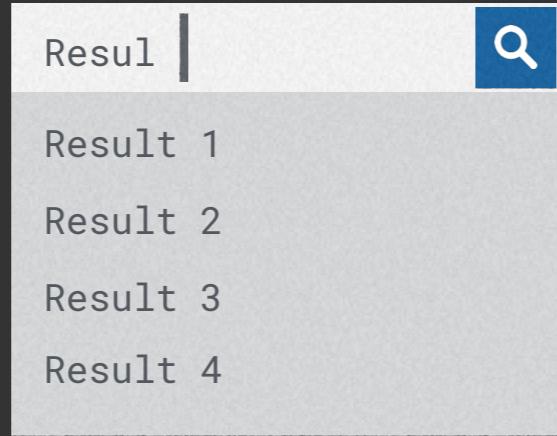
Result 1

Result 2

Result 3

Result 4

```
$( "#dropdown" ).focus(function () {  
    $( "#search_result" ).show();  
});  
  
$( "#dropdown" ).blur(function () {  
    $( "#search_result" ).hide();  
});  
  
$( "#dropdown" ).on("change", function () {  
    ...  
});
```



```
$( "#dropdown" ).focus(function () {  
    $( "#search_result" ).show();  
});  
$( "#dropdown" ).blur(function () {  
    $( "#search_result" ).hide();  
});  
$( "#dropdown" ).on("change", function () {  
    ...  
});  
  
$( "#dropdown2" ).focus(function () {  
    $( "#search_result" ).show();  
});  
$( "#dropdown2" ).blur(function () {  
    $( "#search_result" ).hide();  
});  
$( "#dropdown2" ).on("change", function () {  
    ...  
});
```


Result x

Result |



Result 1

Result 2

Result 3

Result 4



3 Reasons

Why you should use ReactJS?

Reason 1
Break UI
to components

Result |



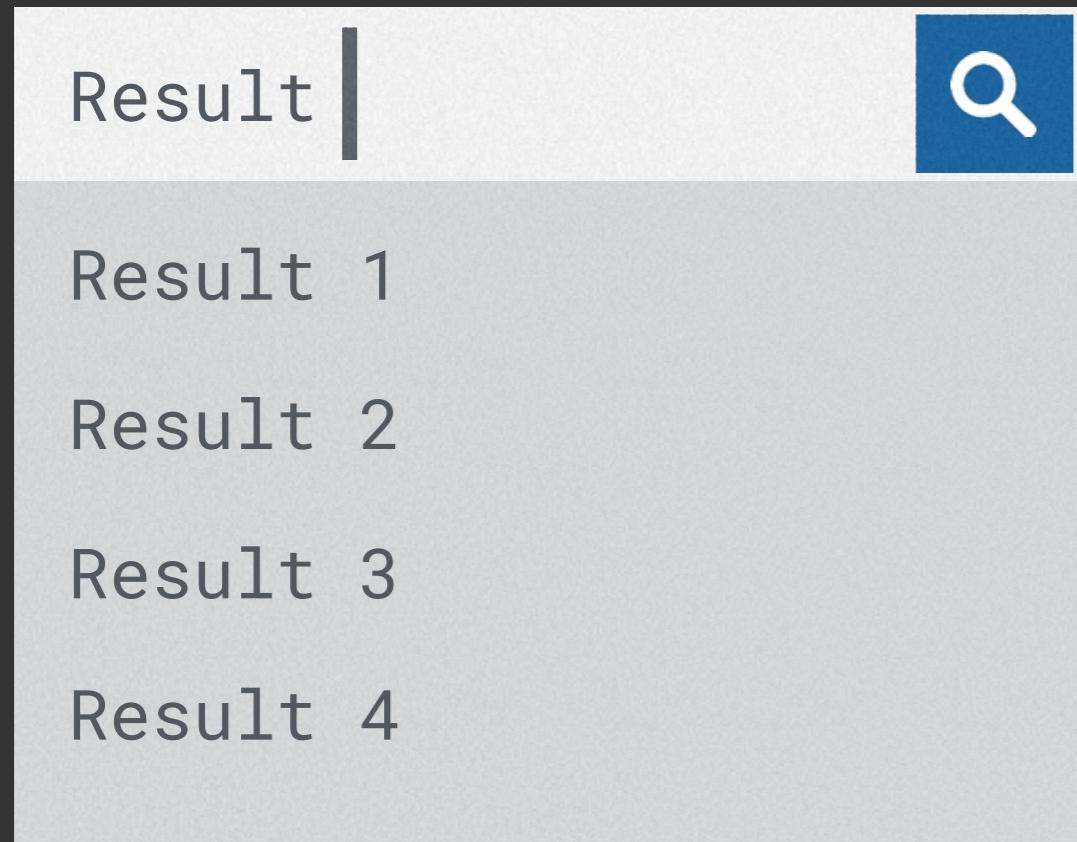
Result 1

Result 2

Result 3

Result 4

<Dropdown />

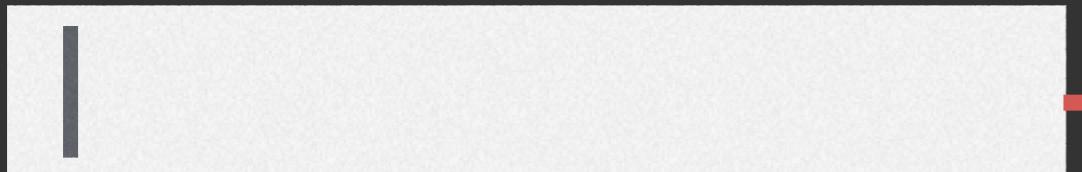


Component



<Dropdown />

Result x

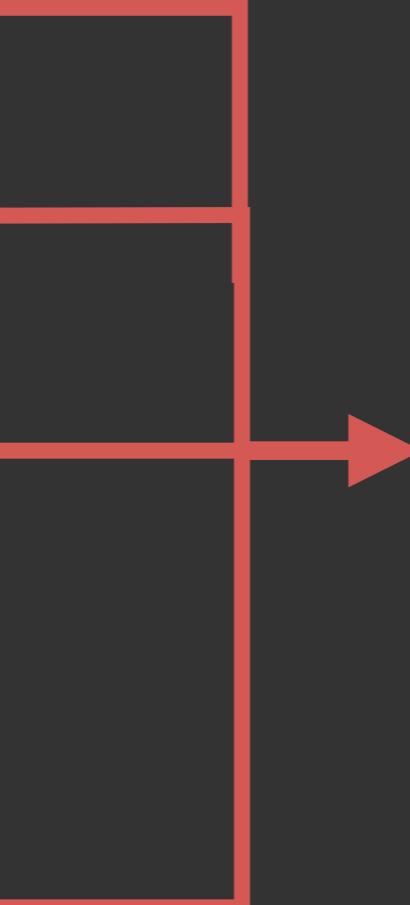


Result 1

Result 2

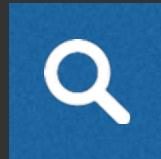
Result 3

Result 4



<Dropdown />

Result x



Result 1

Result 2

Result 3

Result 4

Event



```
<Dropdown onFocus={...}  
onBlur={...}  
onChange={...} />
```

Result x



Result 1

Result 2

Result 3

Result 4

<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...} />

Result Resu | 

Result 1
Result 2
Result 3
Result 4

Result Resu | 

Result 1
Result 2
Result 3
Result 4

```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...}/>
```

Result Resu | 

Result 1
Result 2
Result 3
Result 4

Result Resu | 

Result 1
Result 2
Result 3
Result 4

```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...}/>
```

Result Resu | 

Result 1
Result 2
Result 3
Result 4

Result Resu | 

Result 1
Result 2
Result 3
Result 4

```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...}/>
```

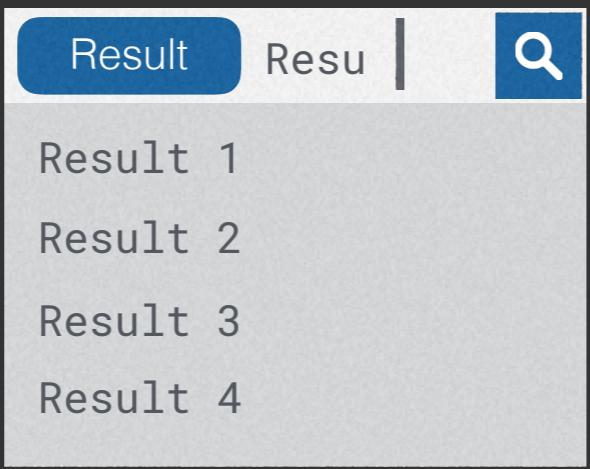
Result Resu | 

Result 1
Result 2
Result 3
Result 4

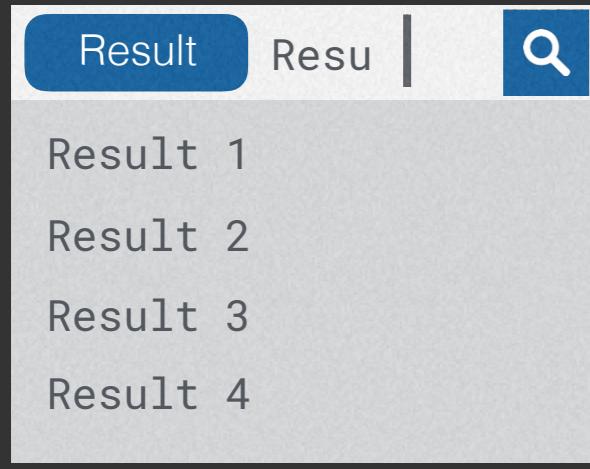
Result Resu | 

Result 1
Result 2
Result 3
Result 4

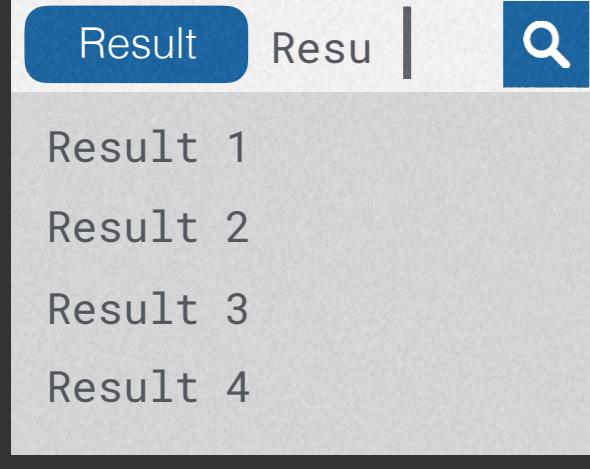
```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...}/>
```



```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...} />
```



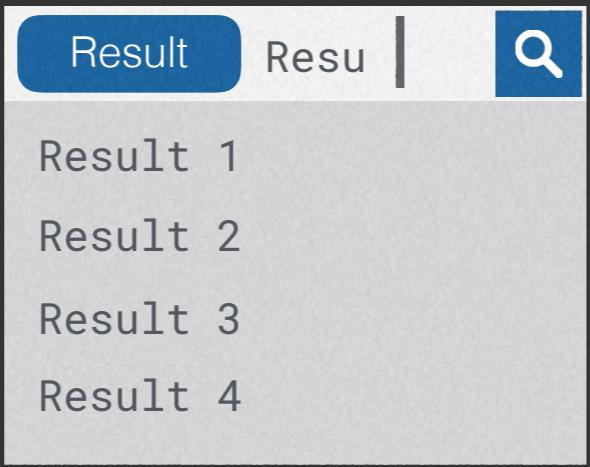
```
<Dropdown onFocus={...}
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```



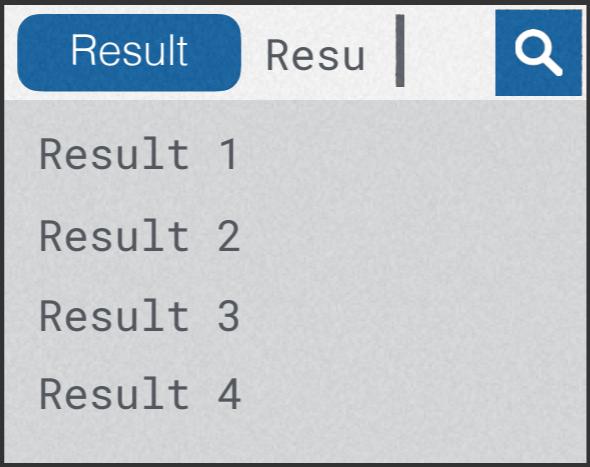
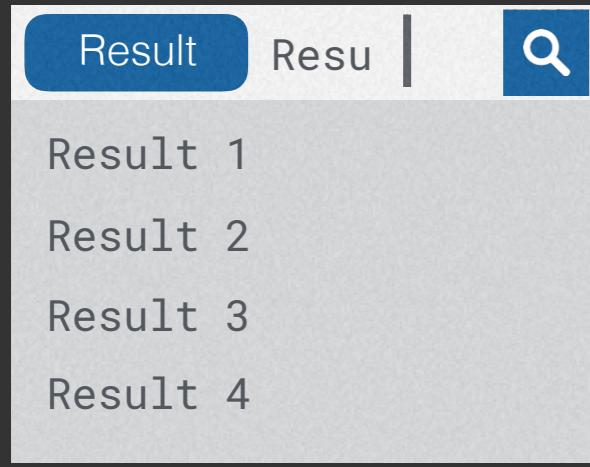
```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...} />
```



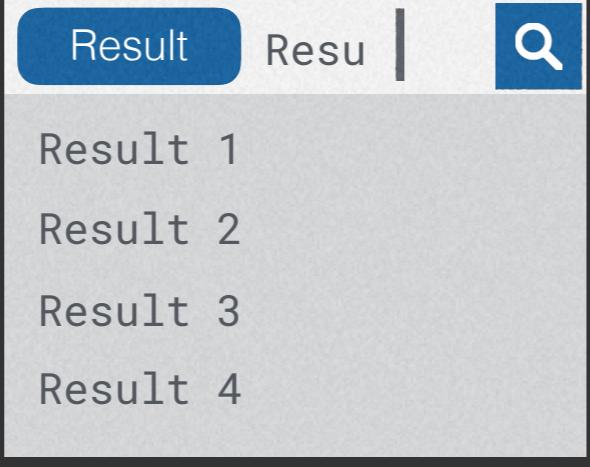
```
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onKeyPress={...} />
```



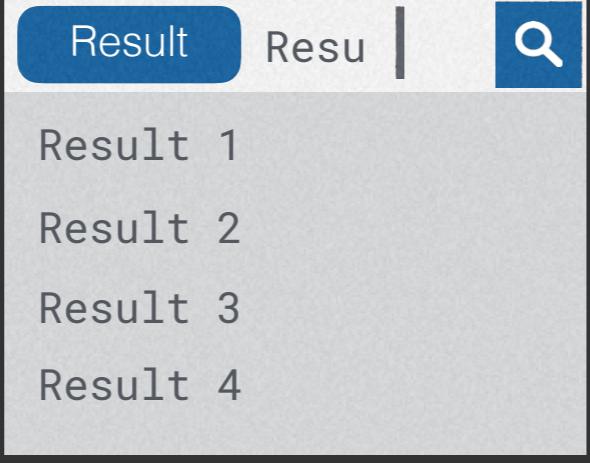
<Dropdown onFocus={...}
onBlur={...}
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onEnter={...}/>



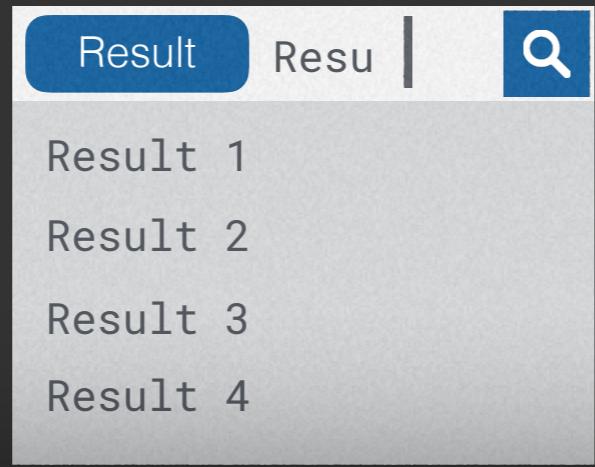
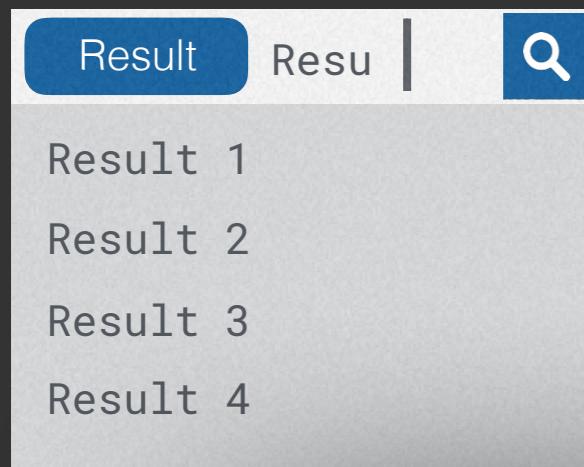
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onEnter={...}/>



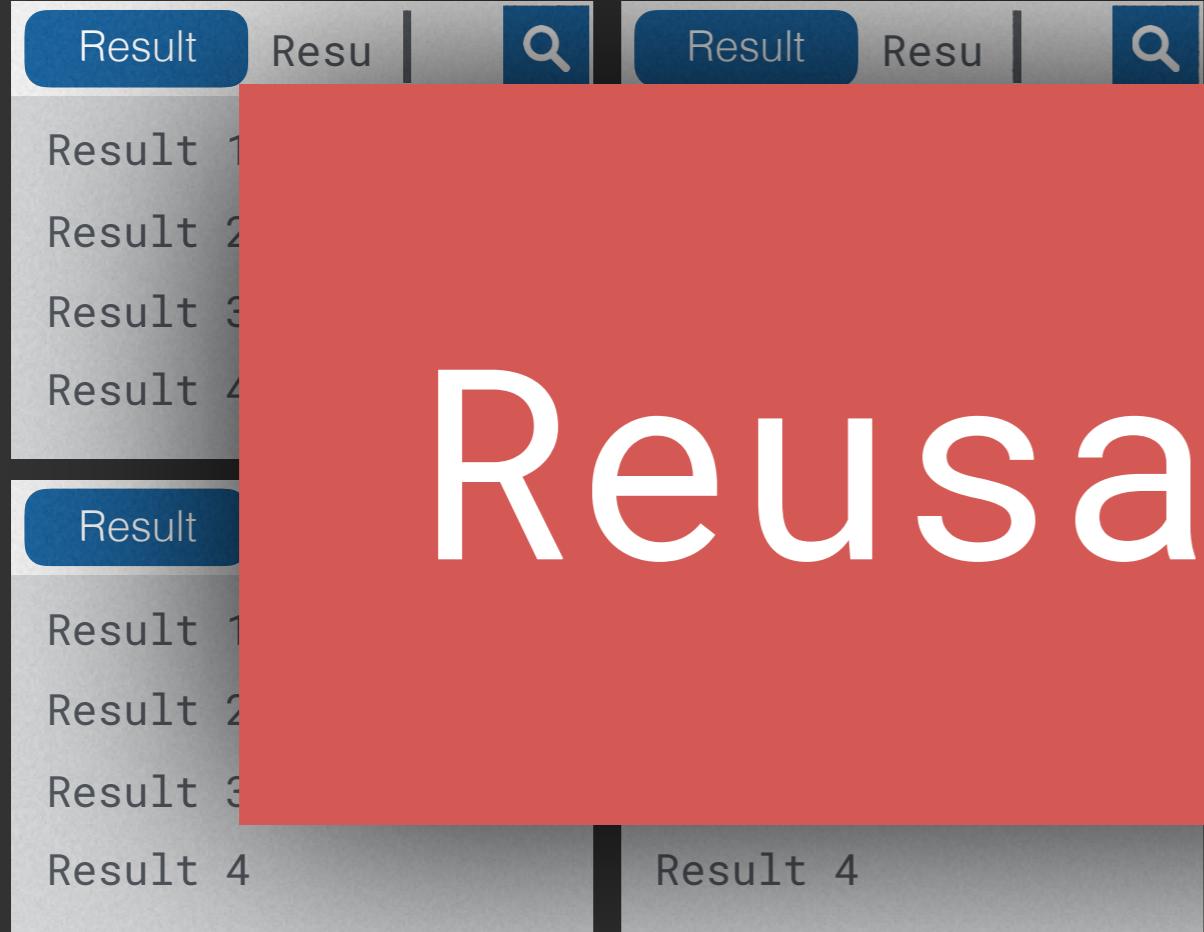
<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onEnter={...}/>



<Dropdown onFocus={...}
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onEnter={...}/>

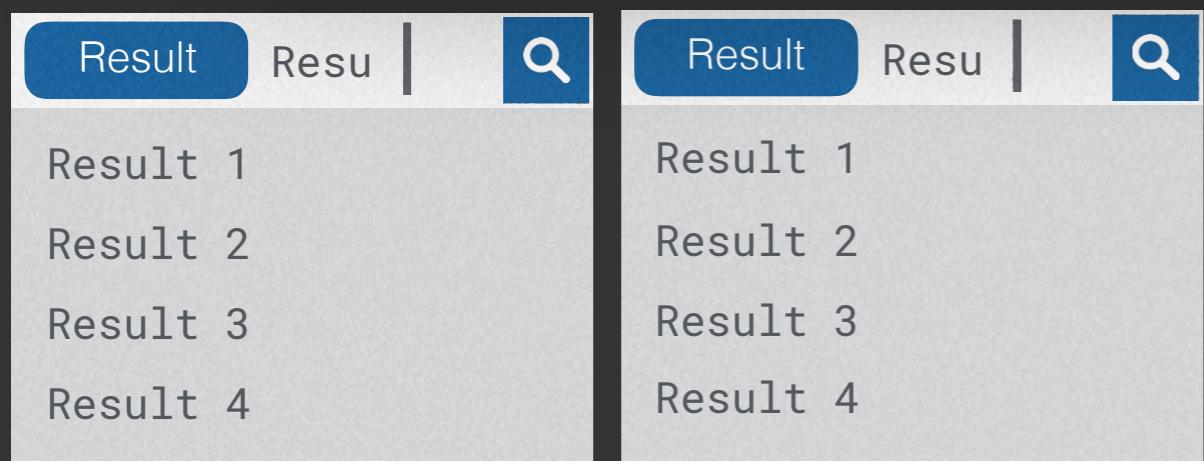


<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onEnter={...}/>



<Dropdown onFocus={...}>

Reusability



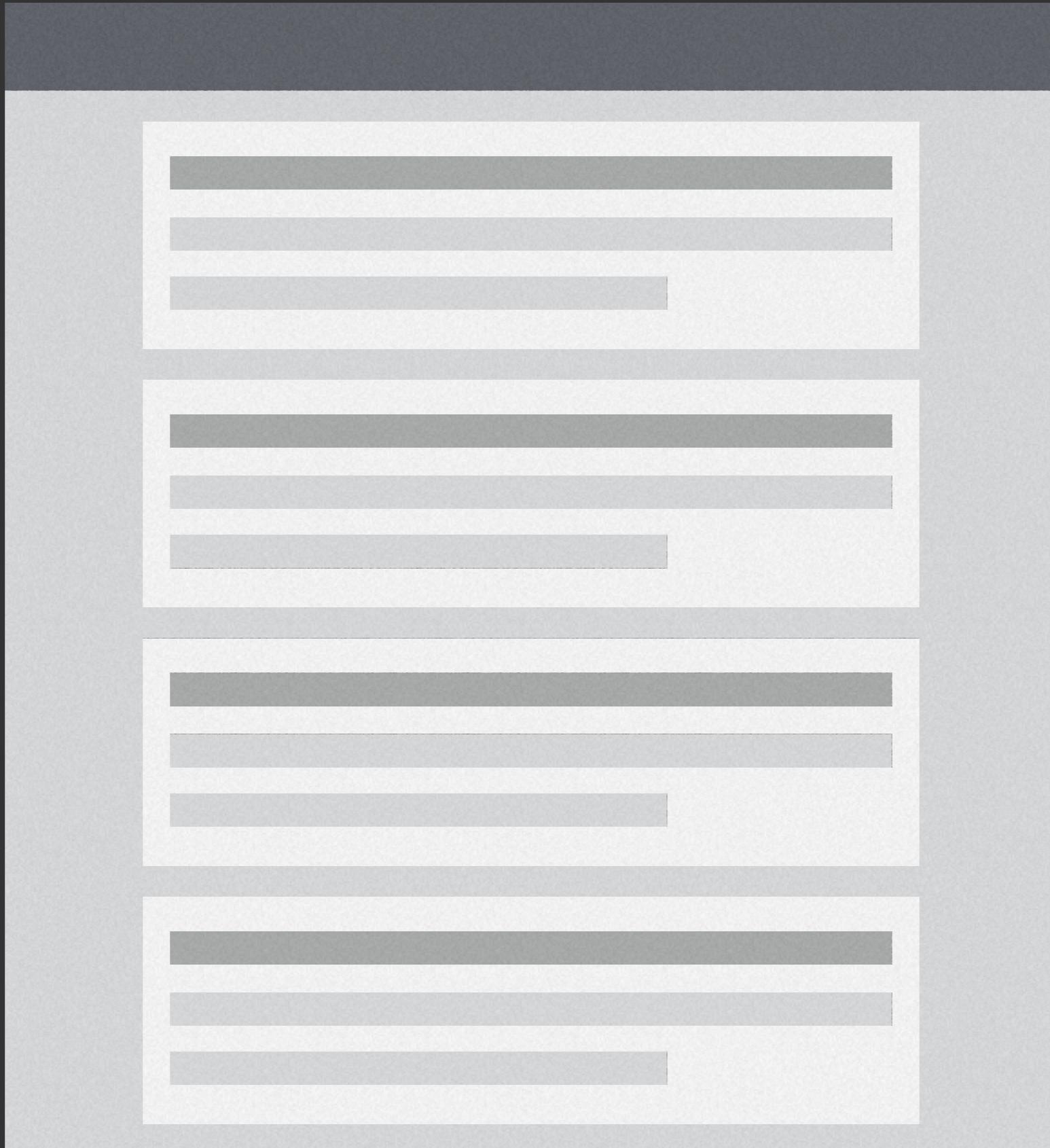
onEnter={...}/>

<Dropdown onFocus={...}
onBlur={...}
onChange={...}
onEnter={...}/>

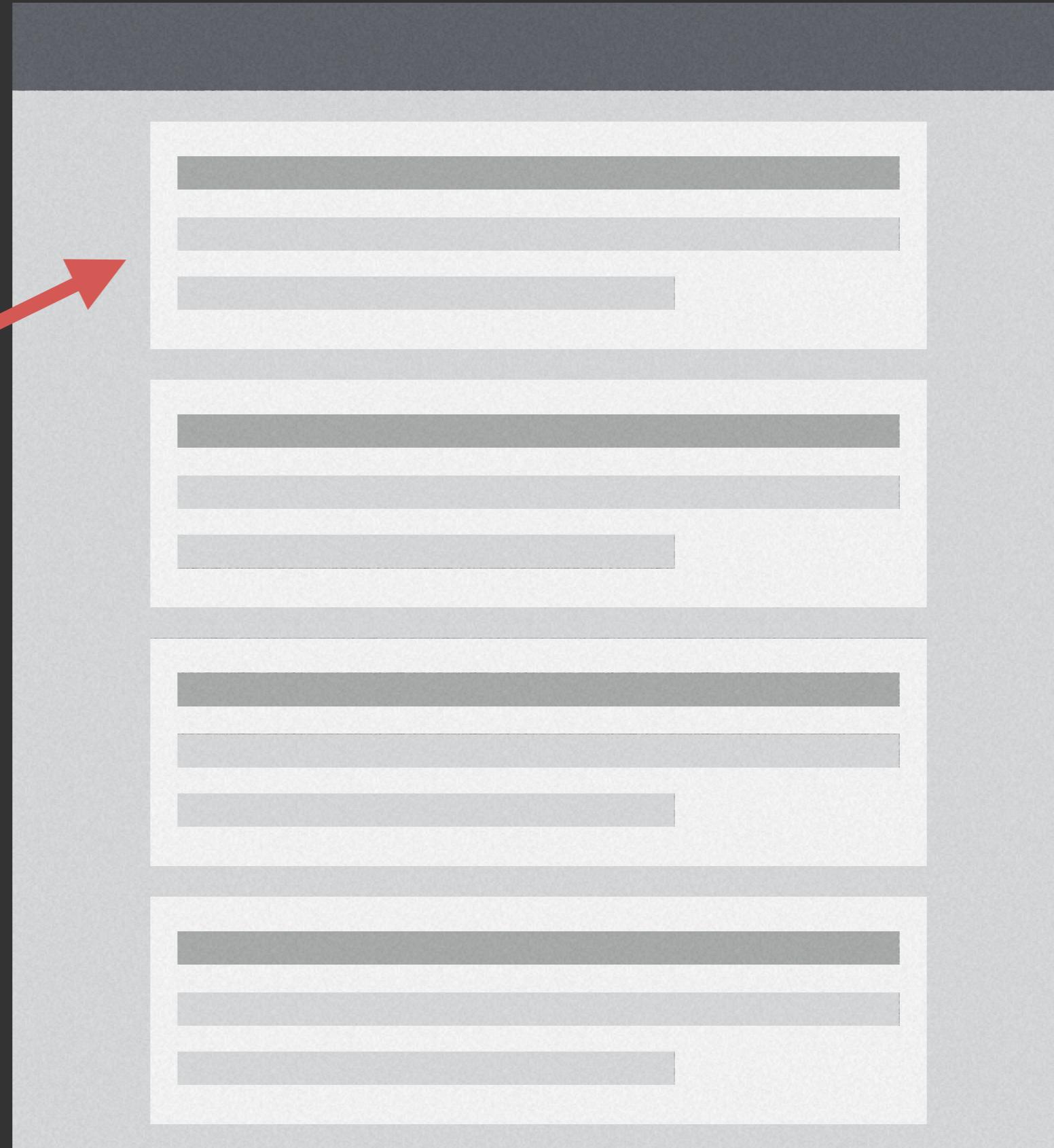


Reason 2

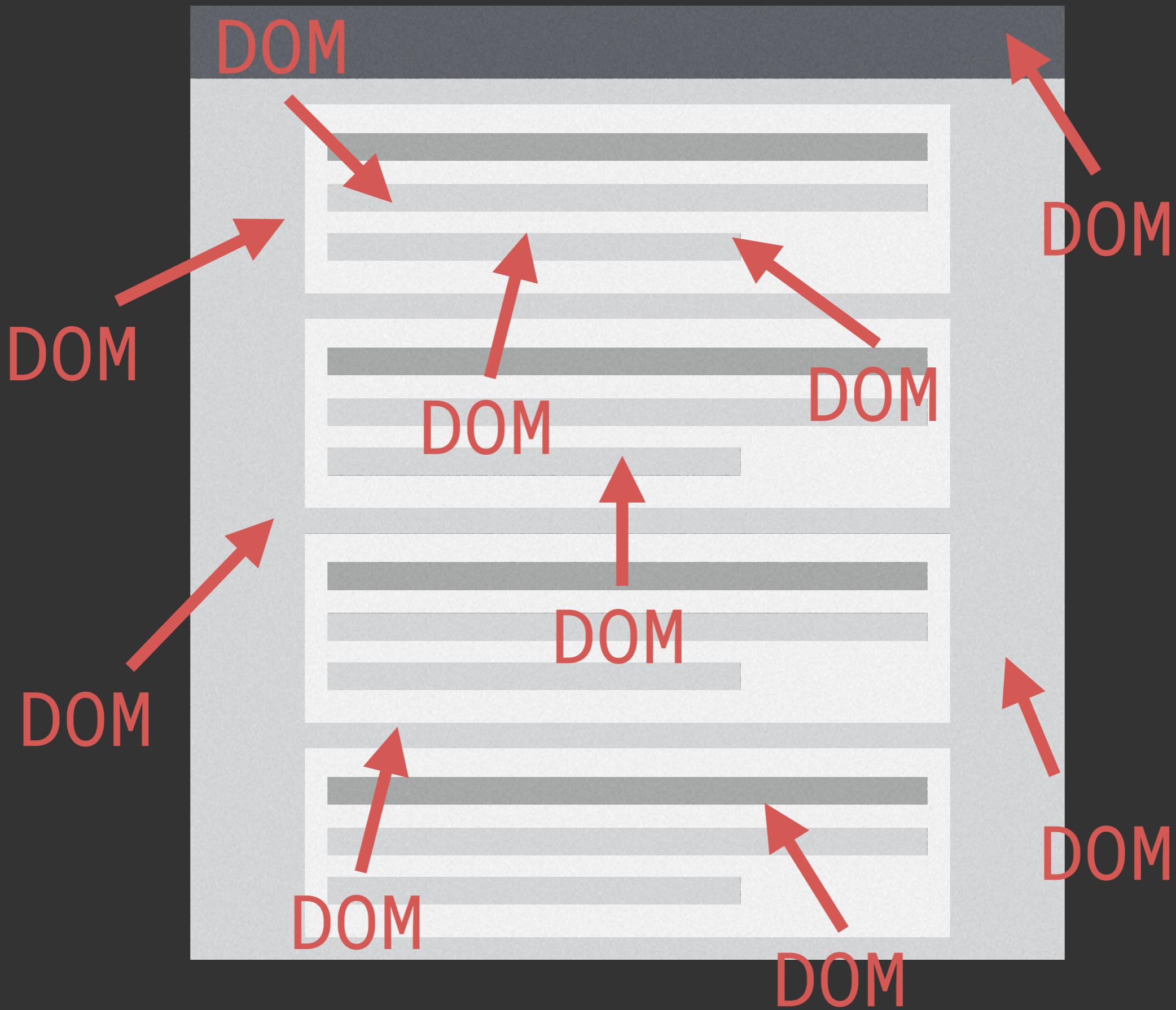
Performance

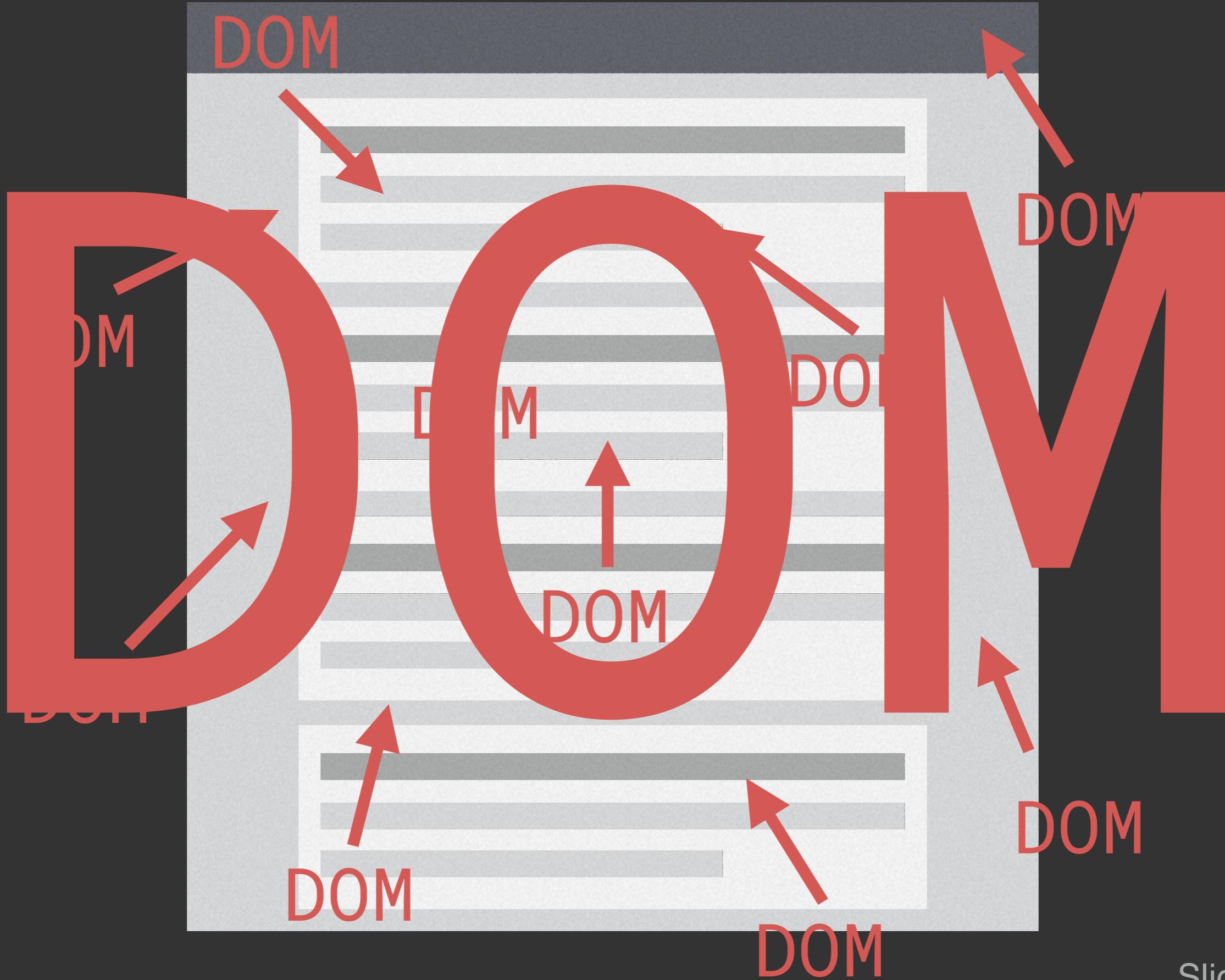


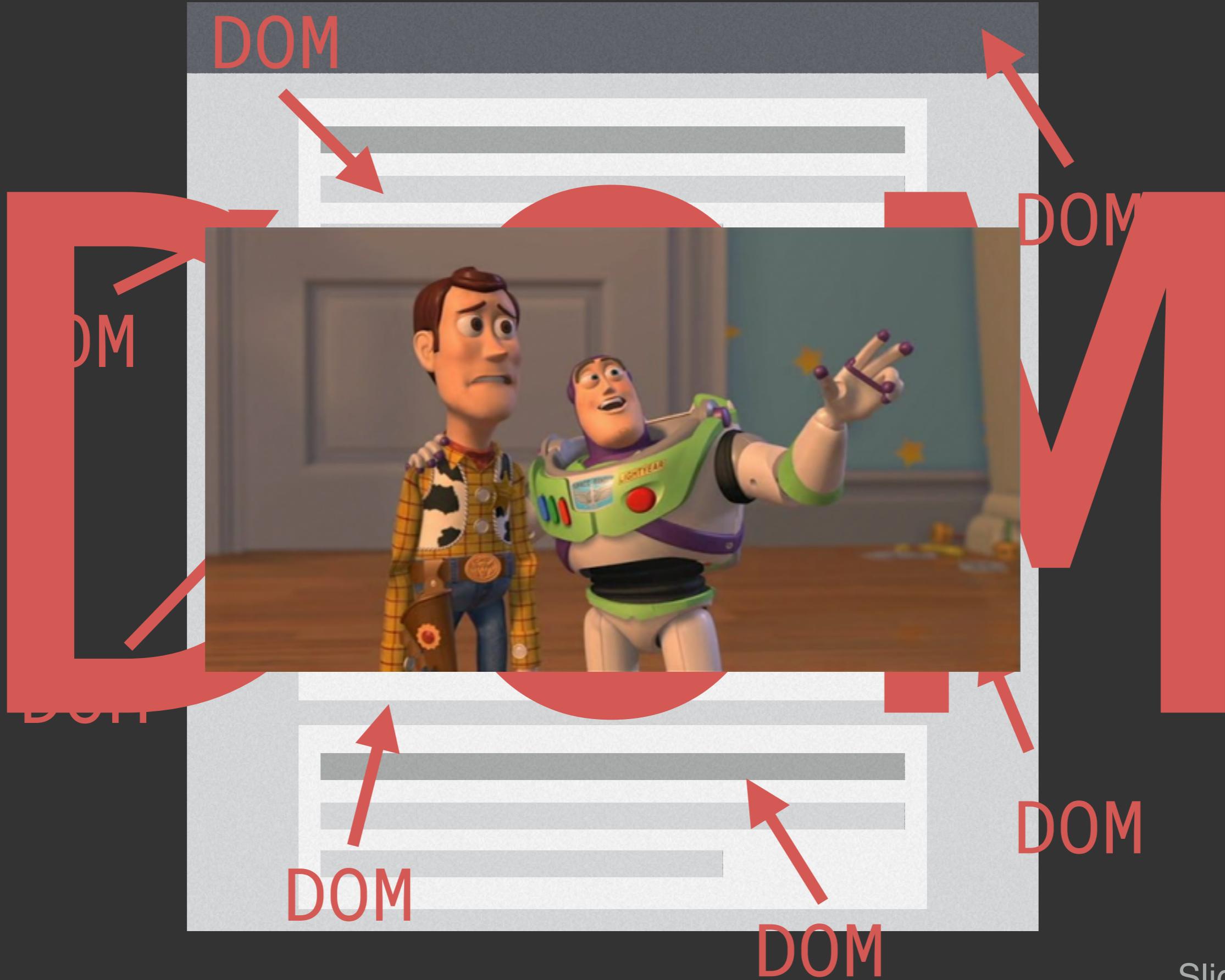
DOM









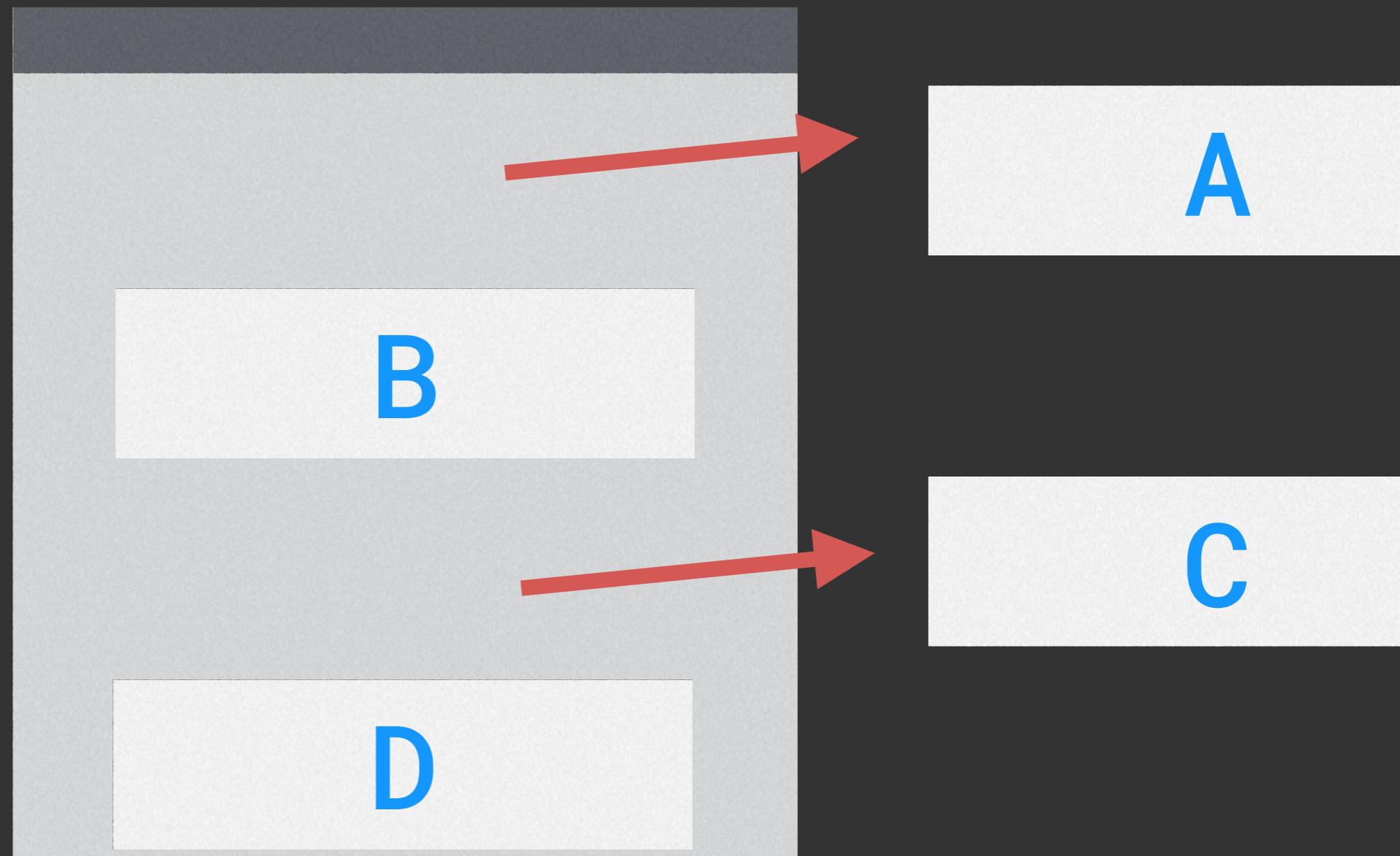


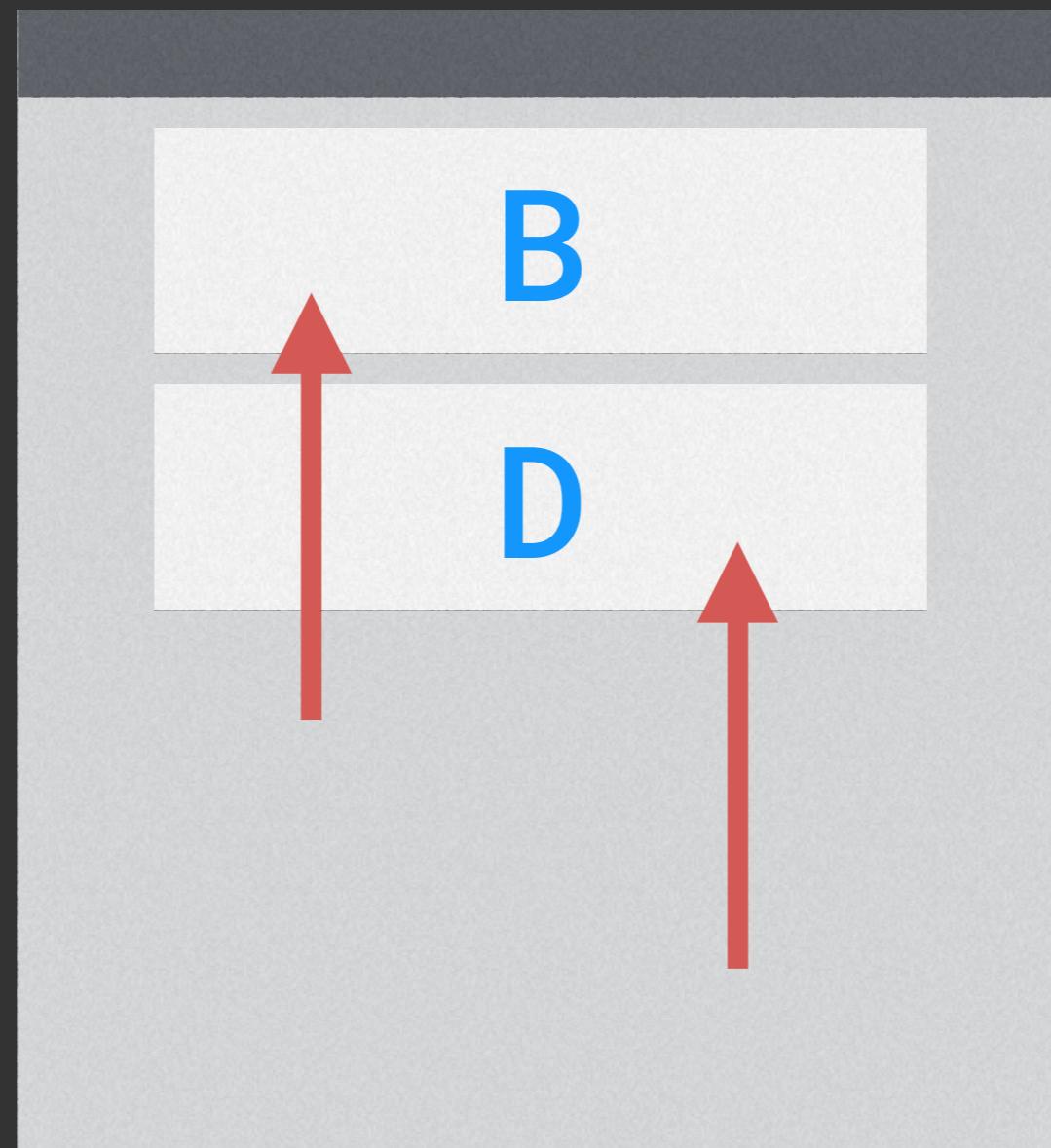
A

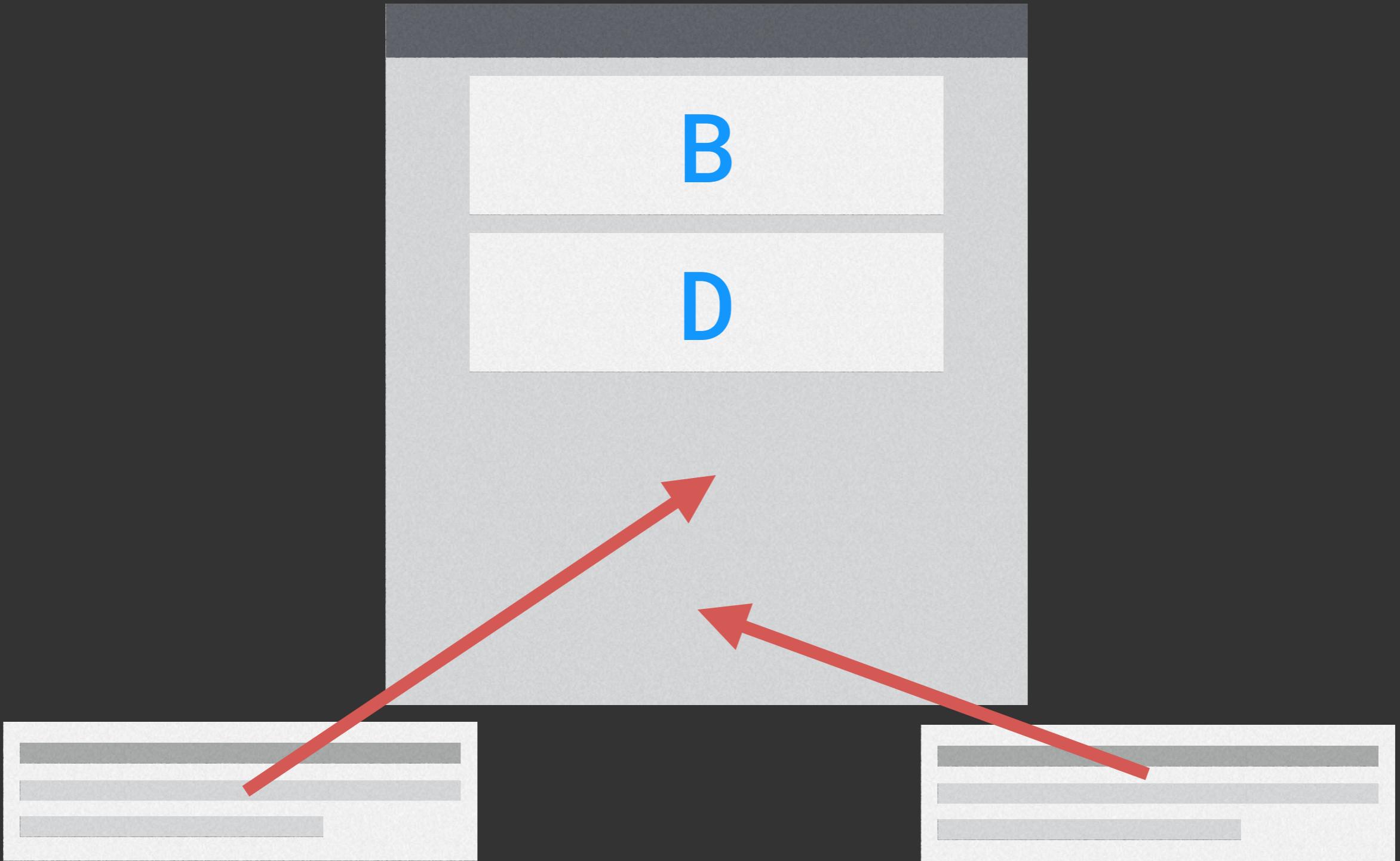
B

C

D

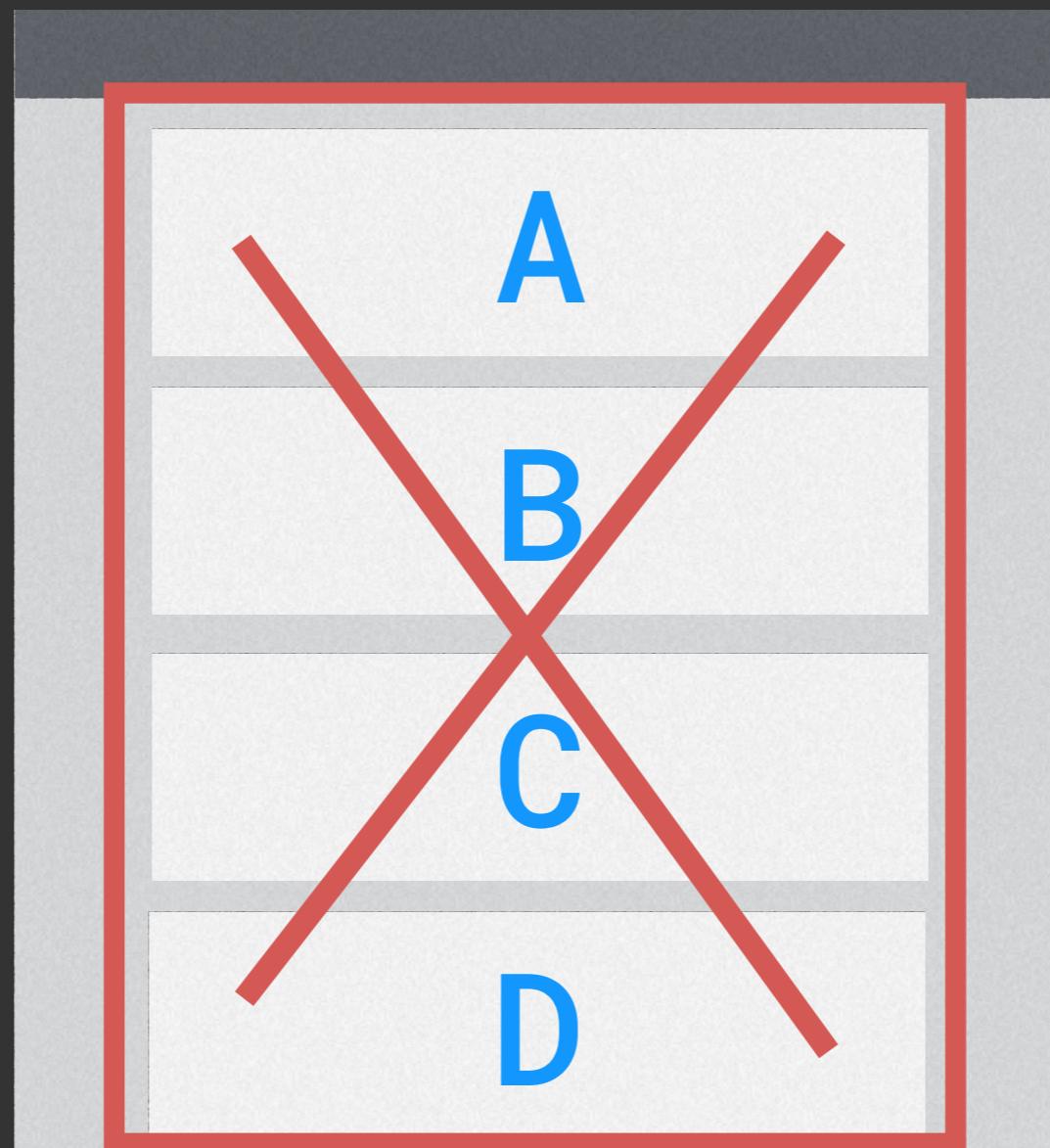






B

D

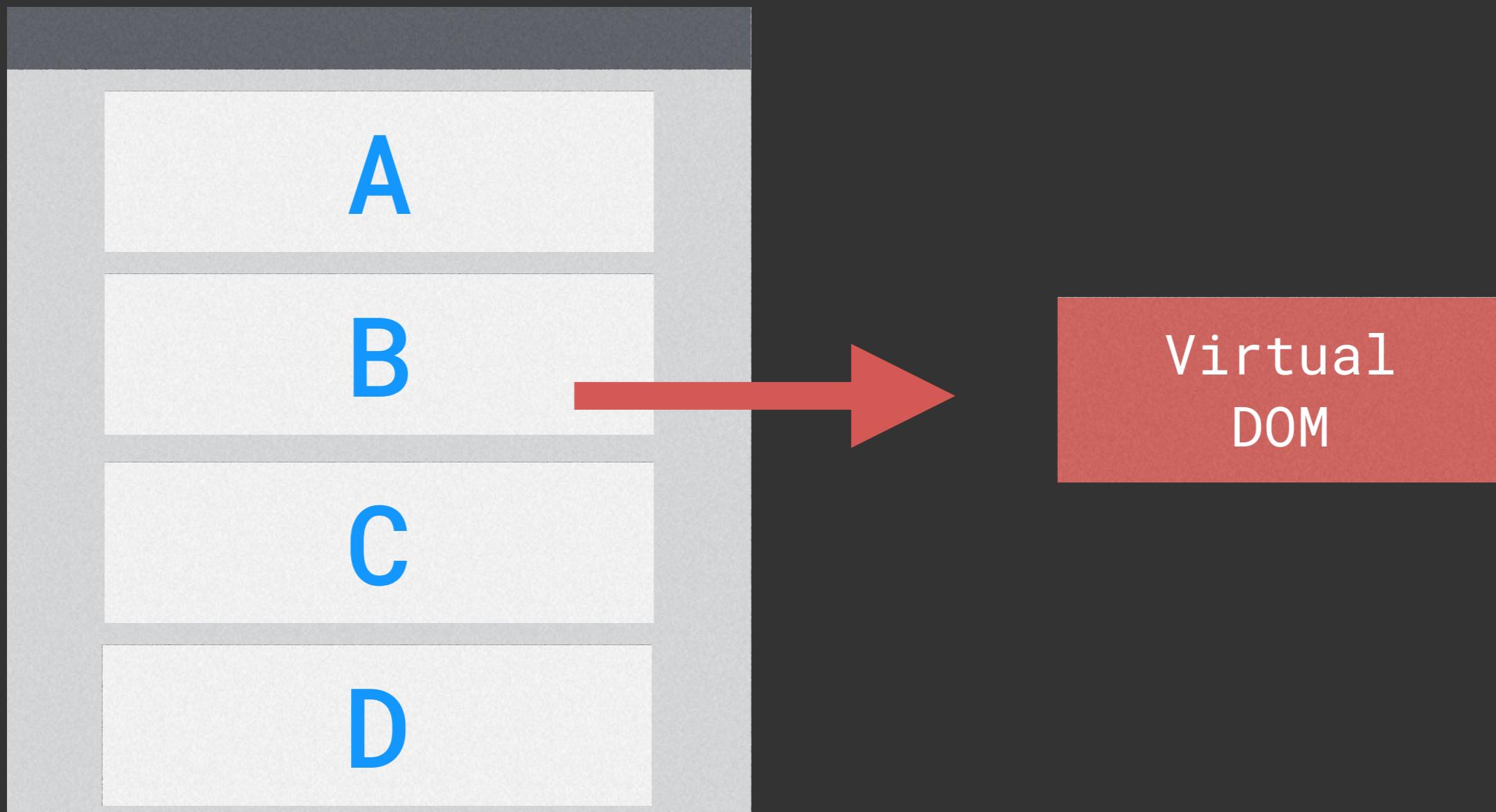


B

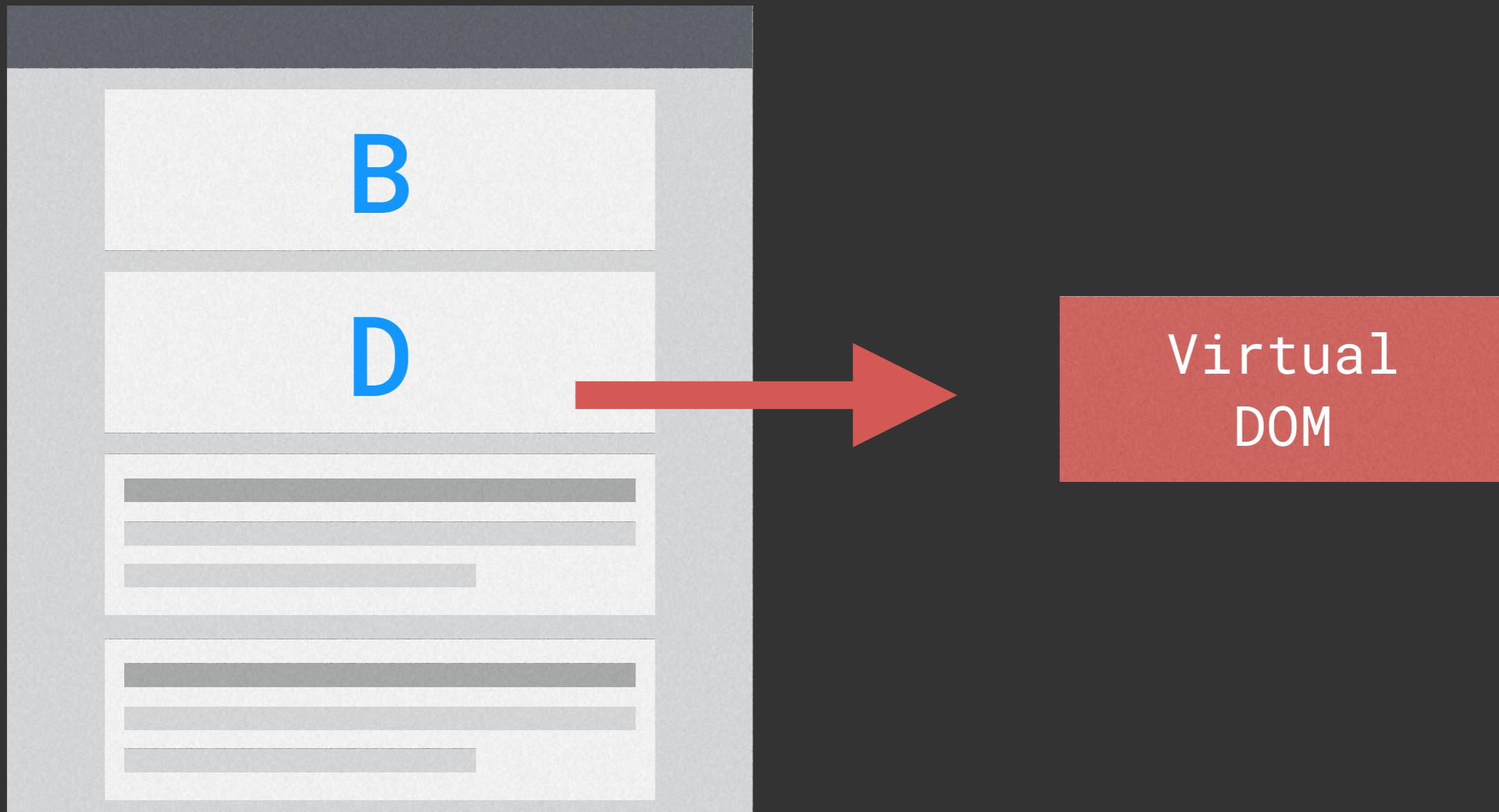
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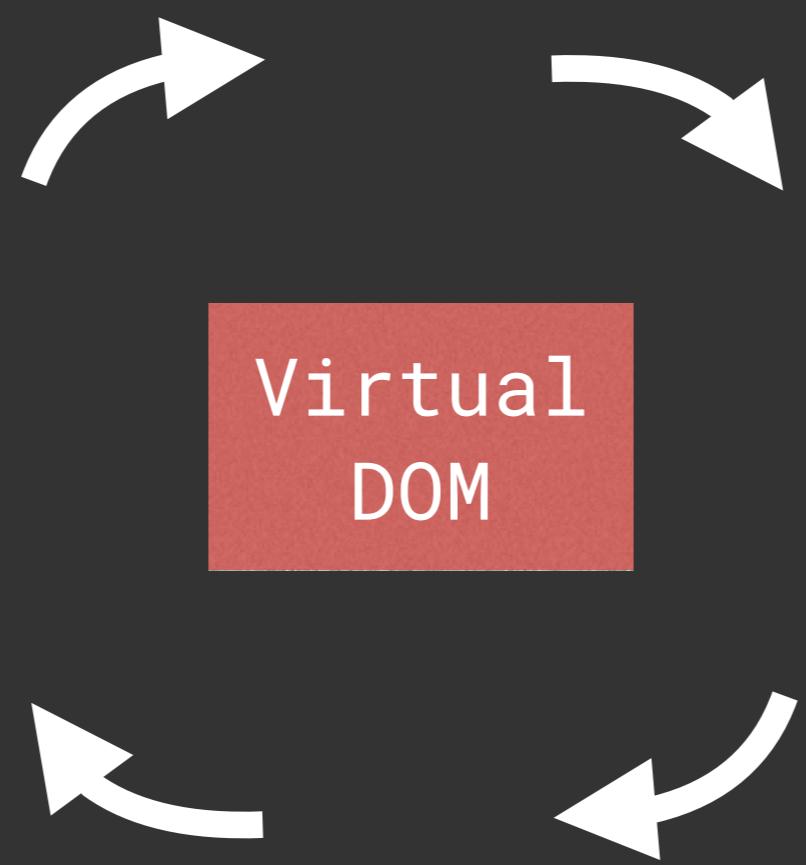
Virtual DOM

Before

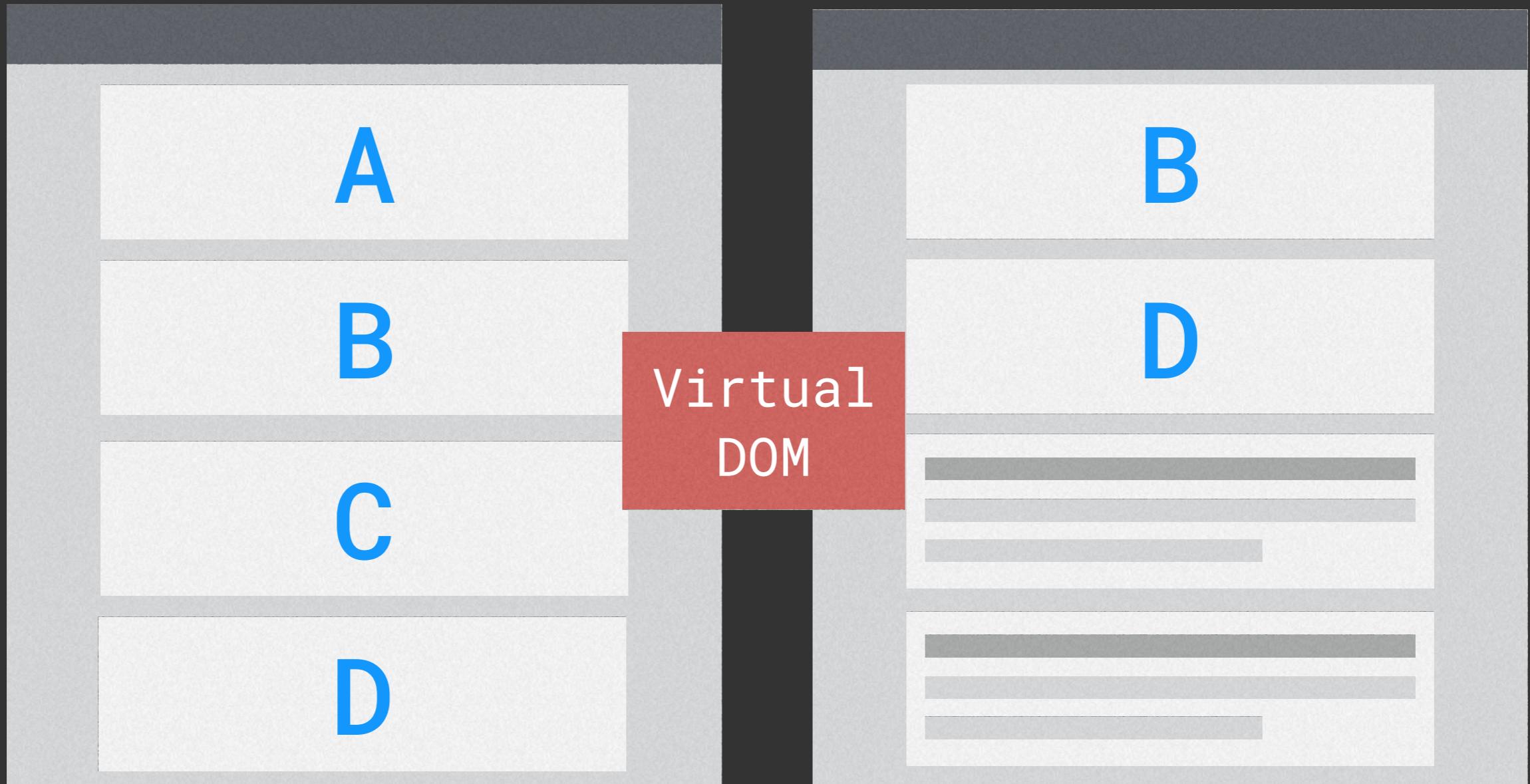


After





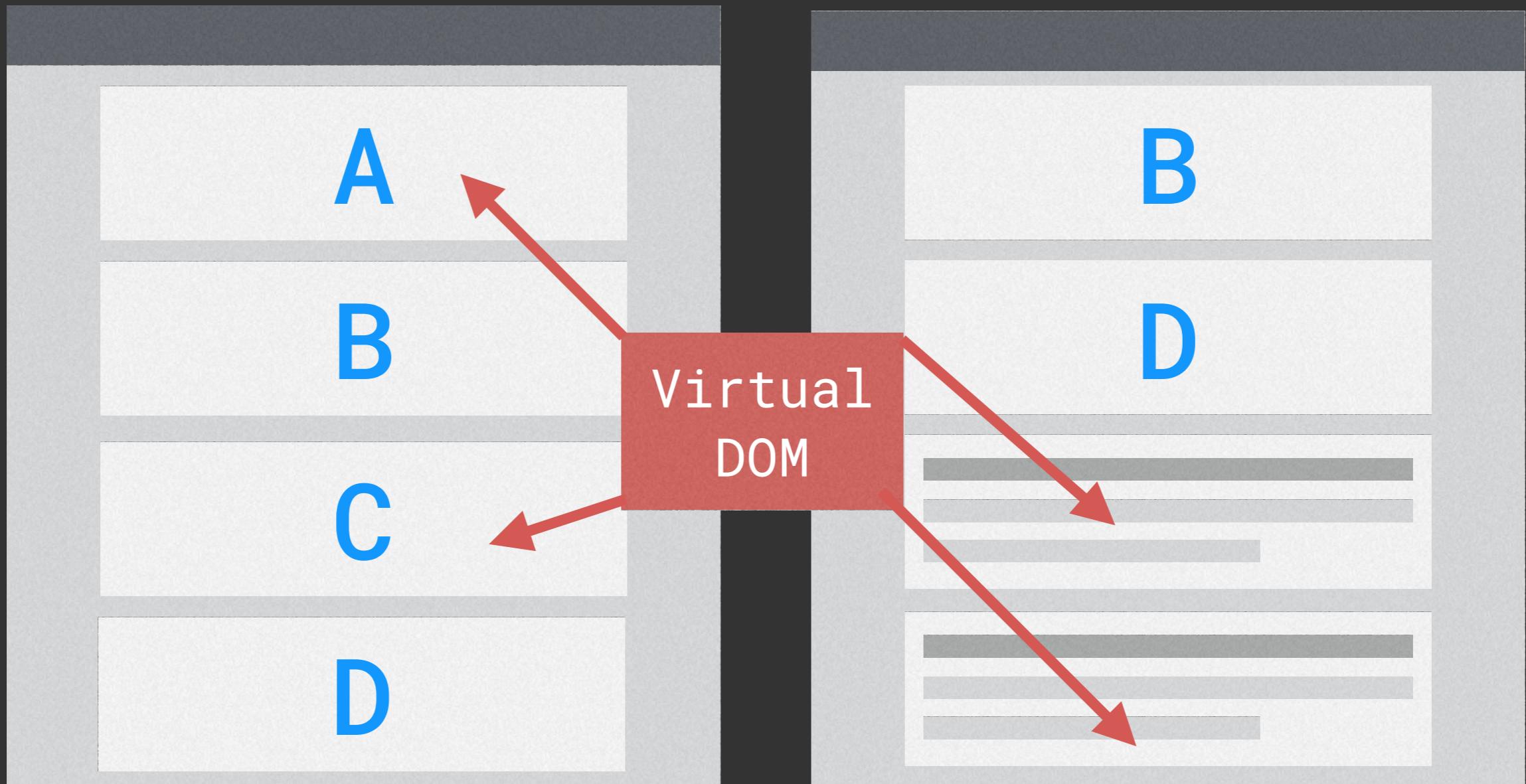
Before



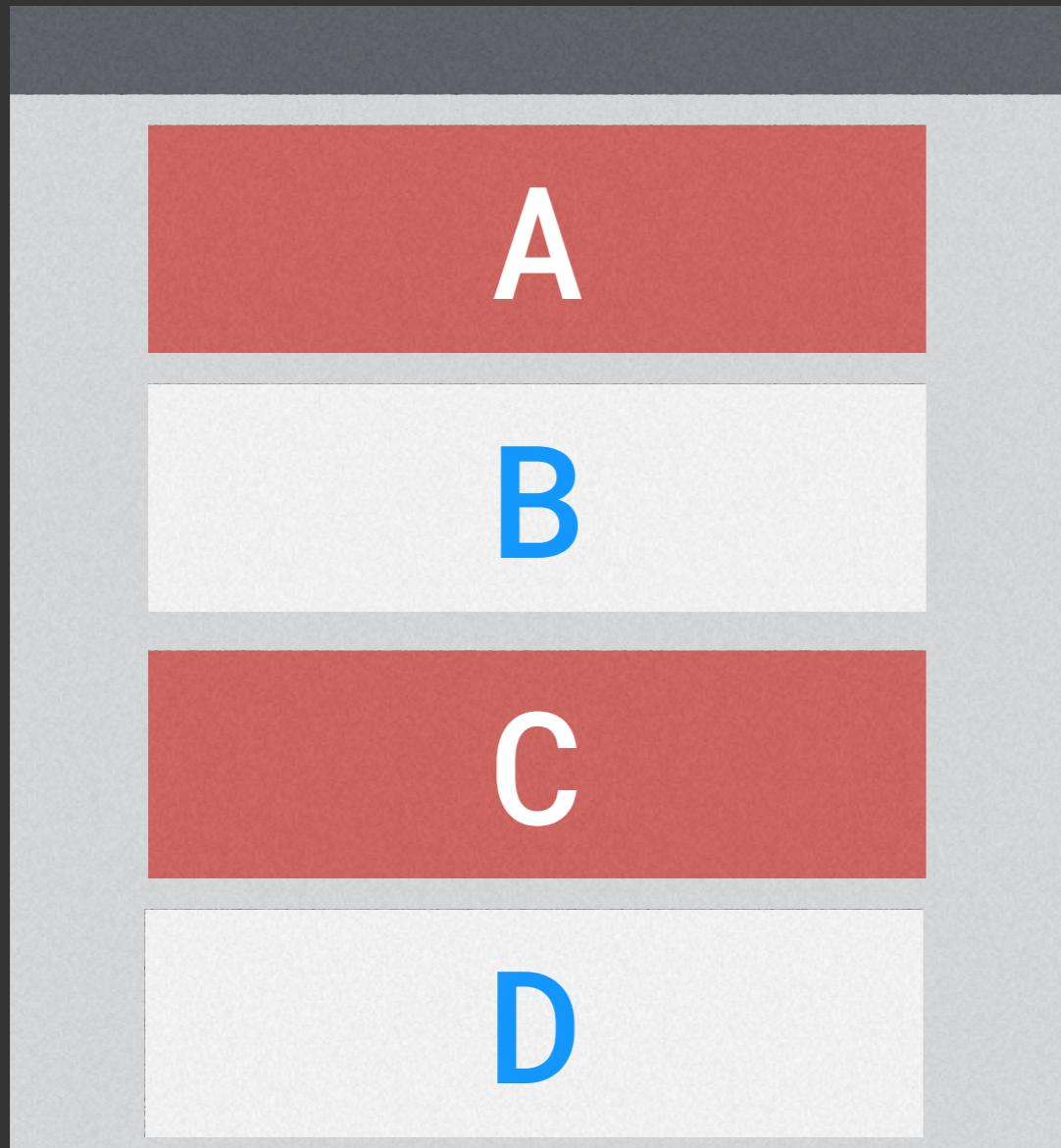
After

Before

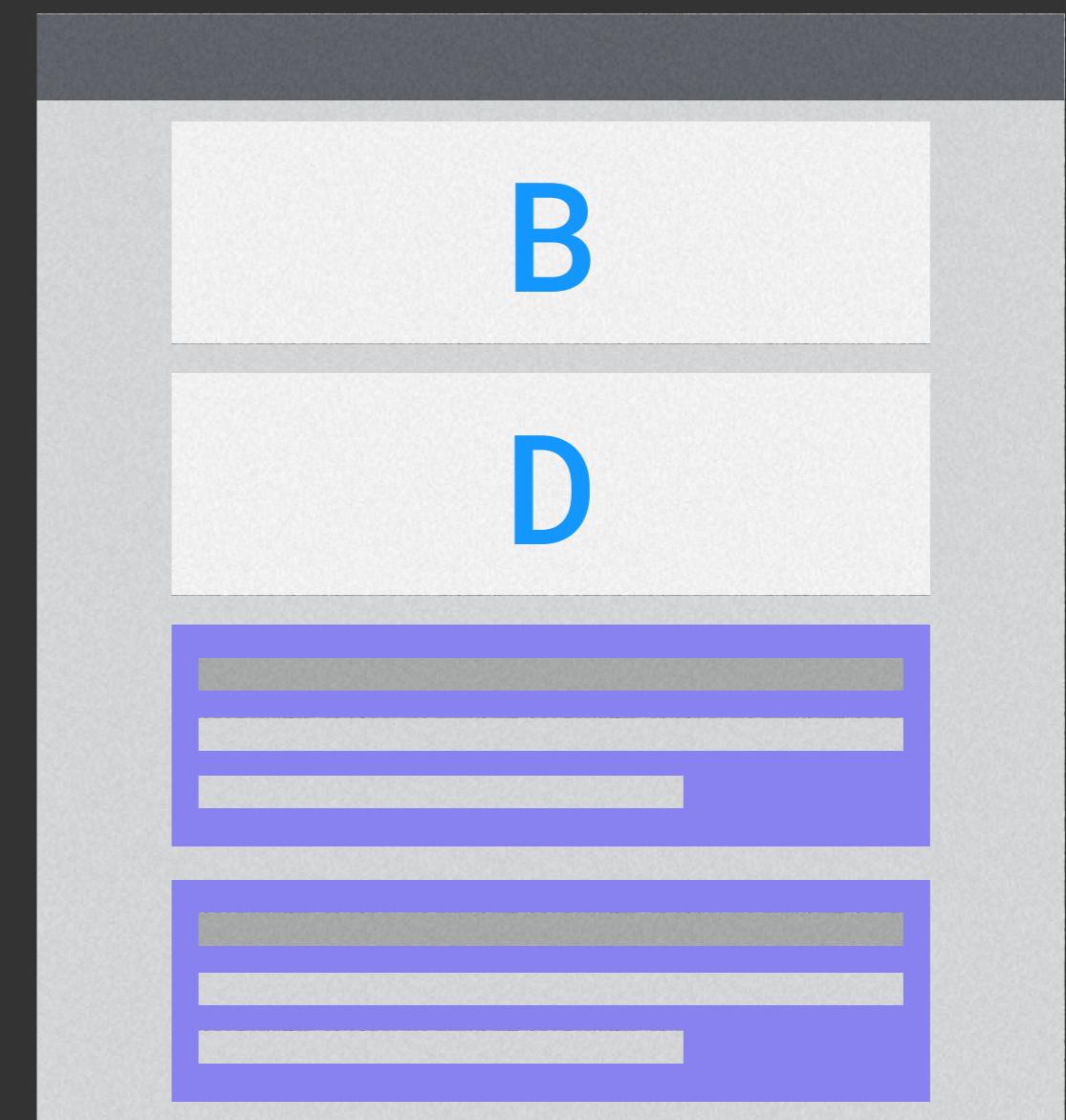
After



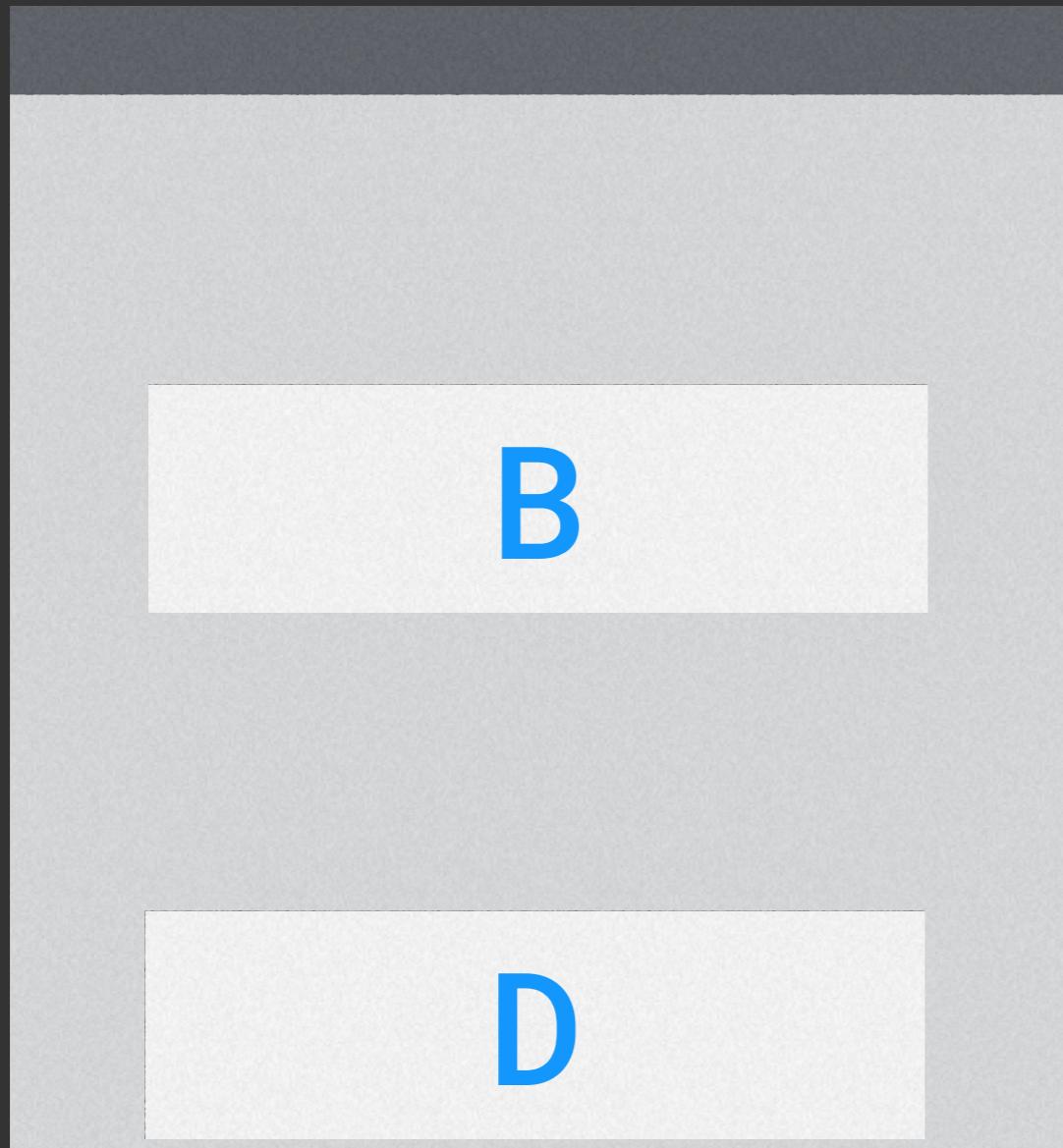
Before



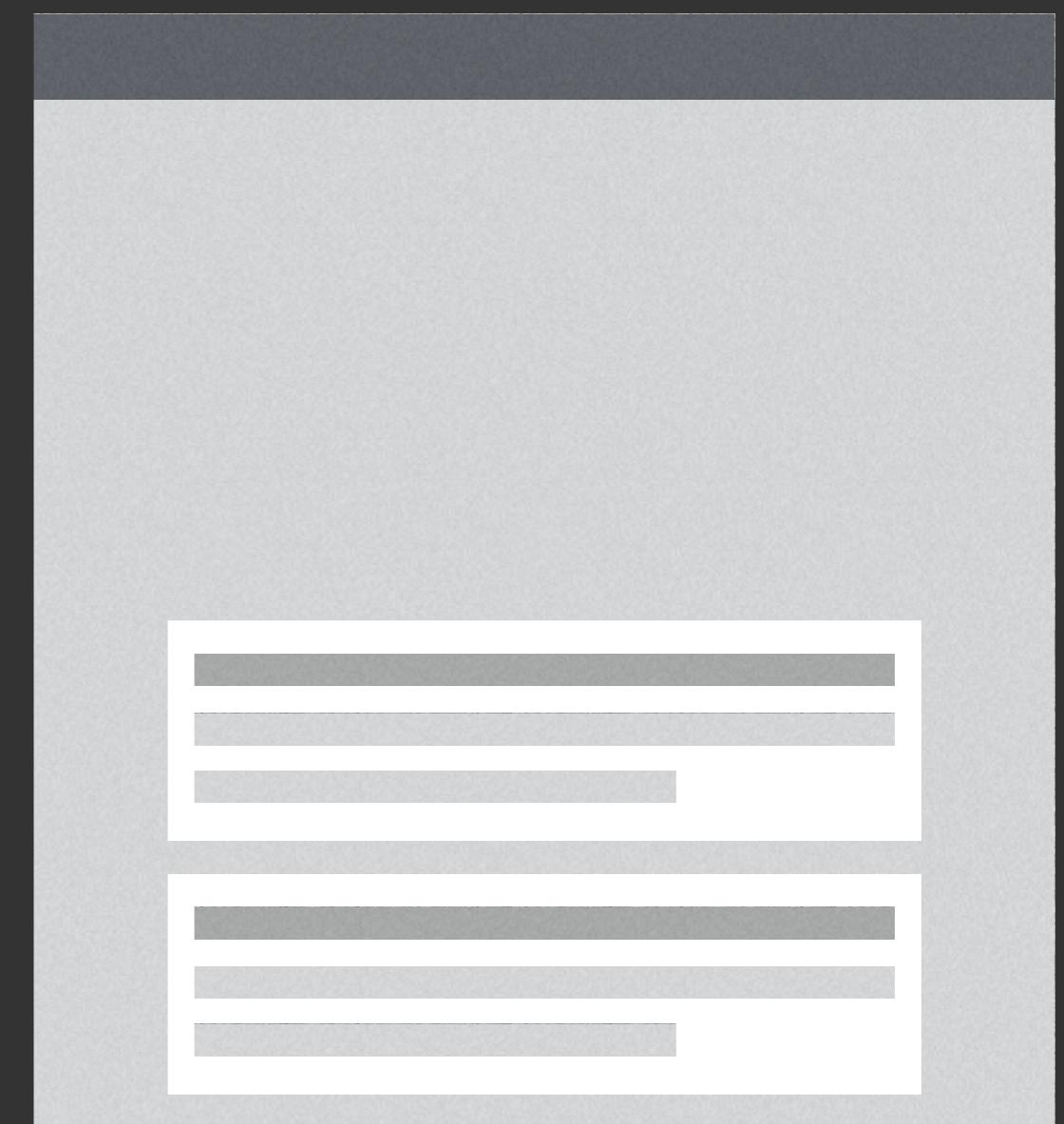
After



Before

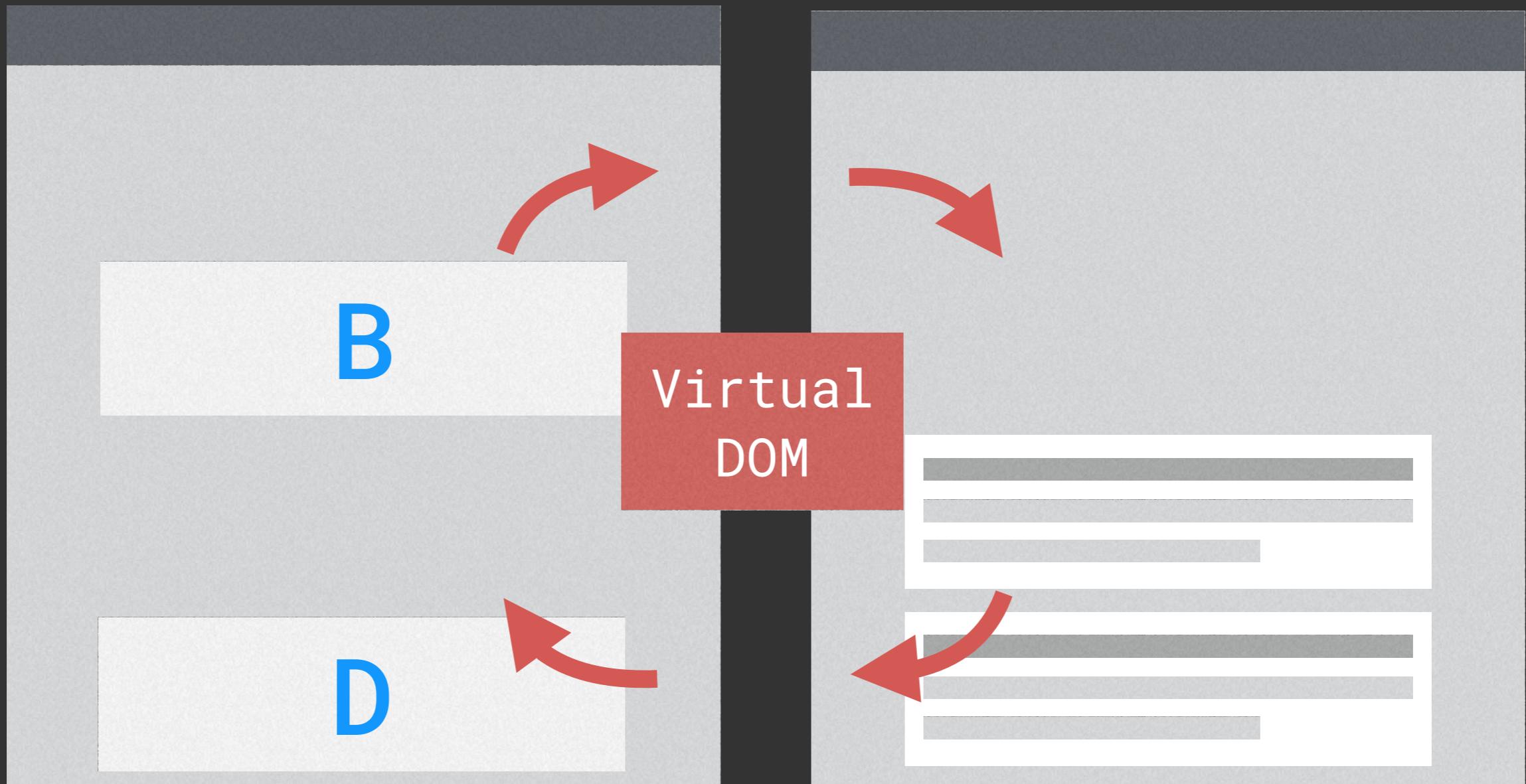


After

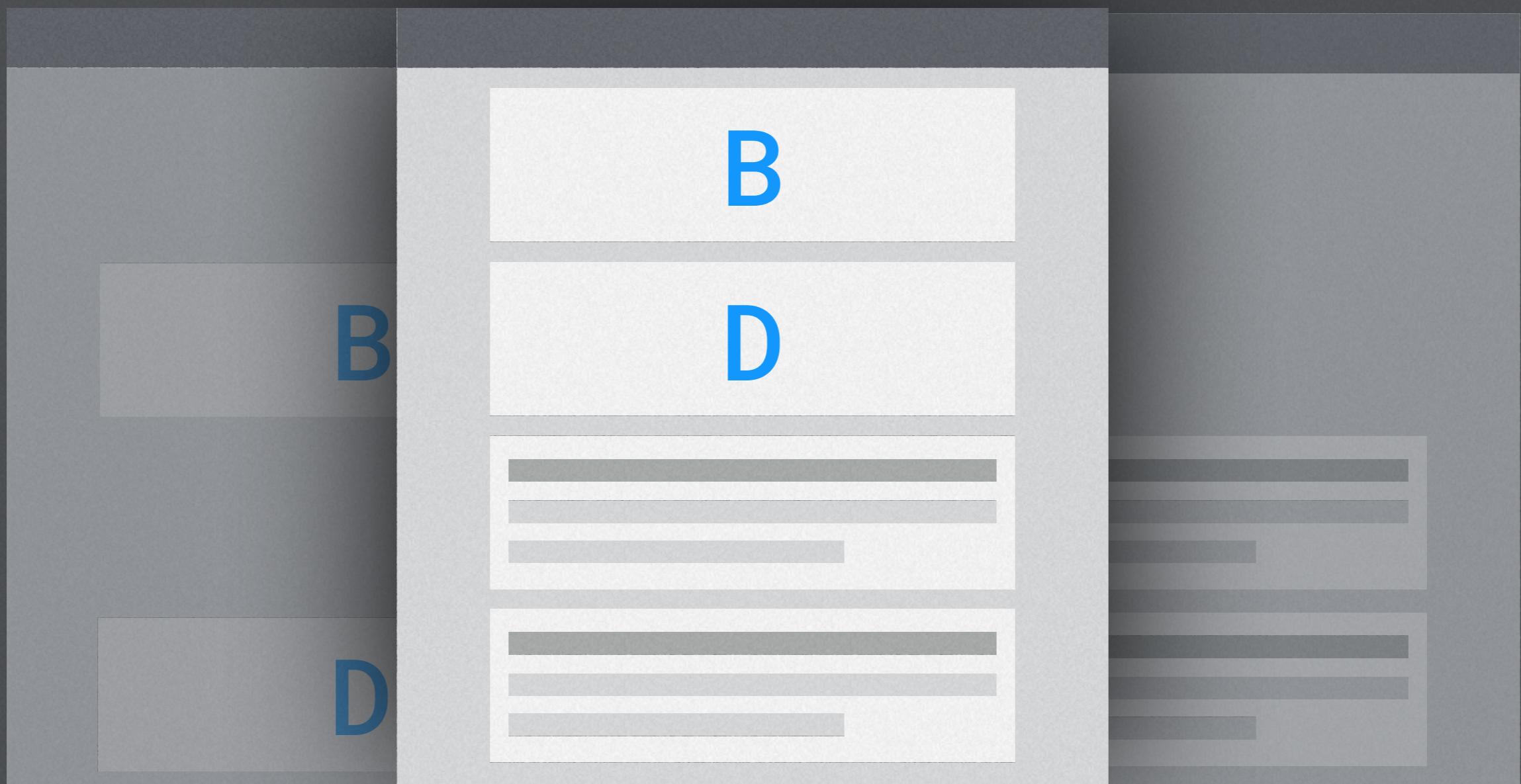


Before

After



Before Result After





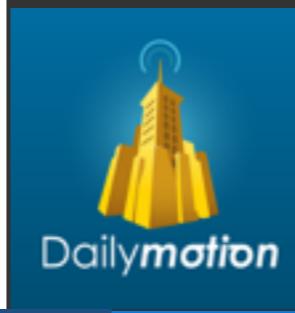
Reason 3

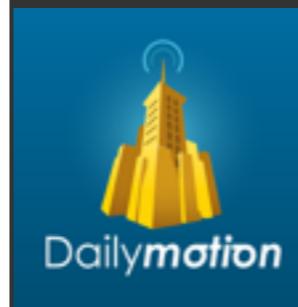
Believe in facebook

Reason 3

~~Believe in facebook~~

Ecosystem





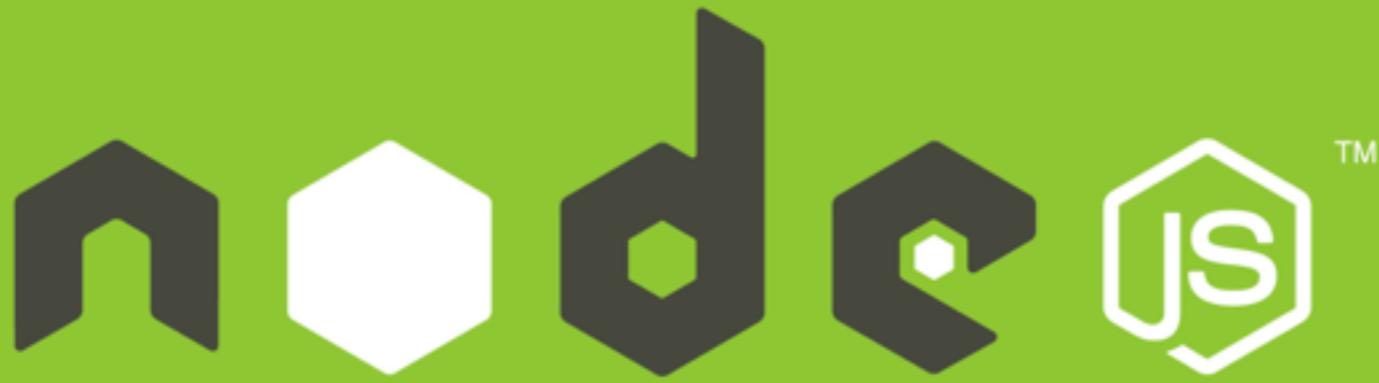
// Sites using react

<https://github.com/facebook/react/wiki/Sites-Using-React>





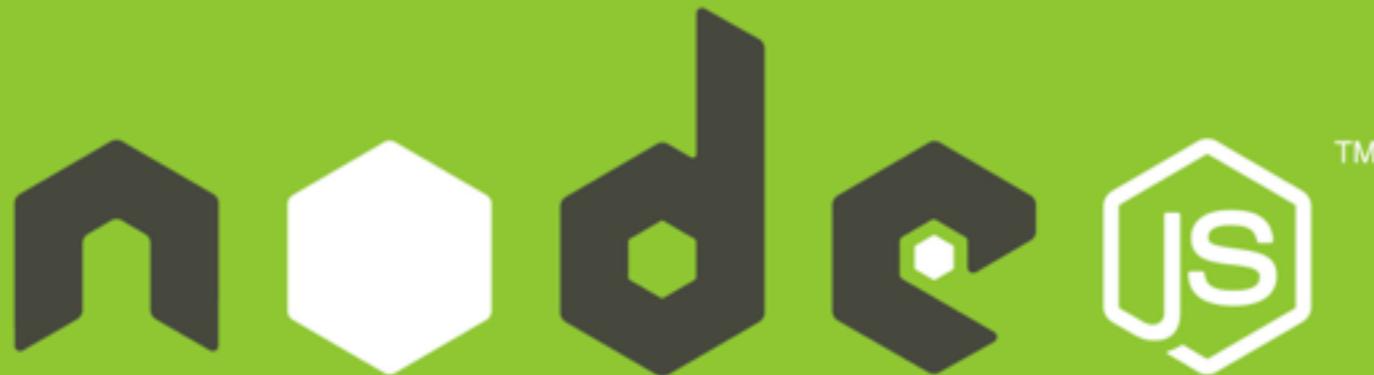
How to start
ReactJS project?





ES6

BABEL

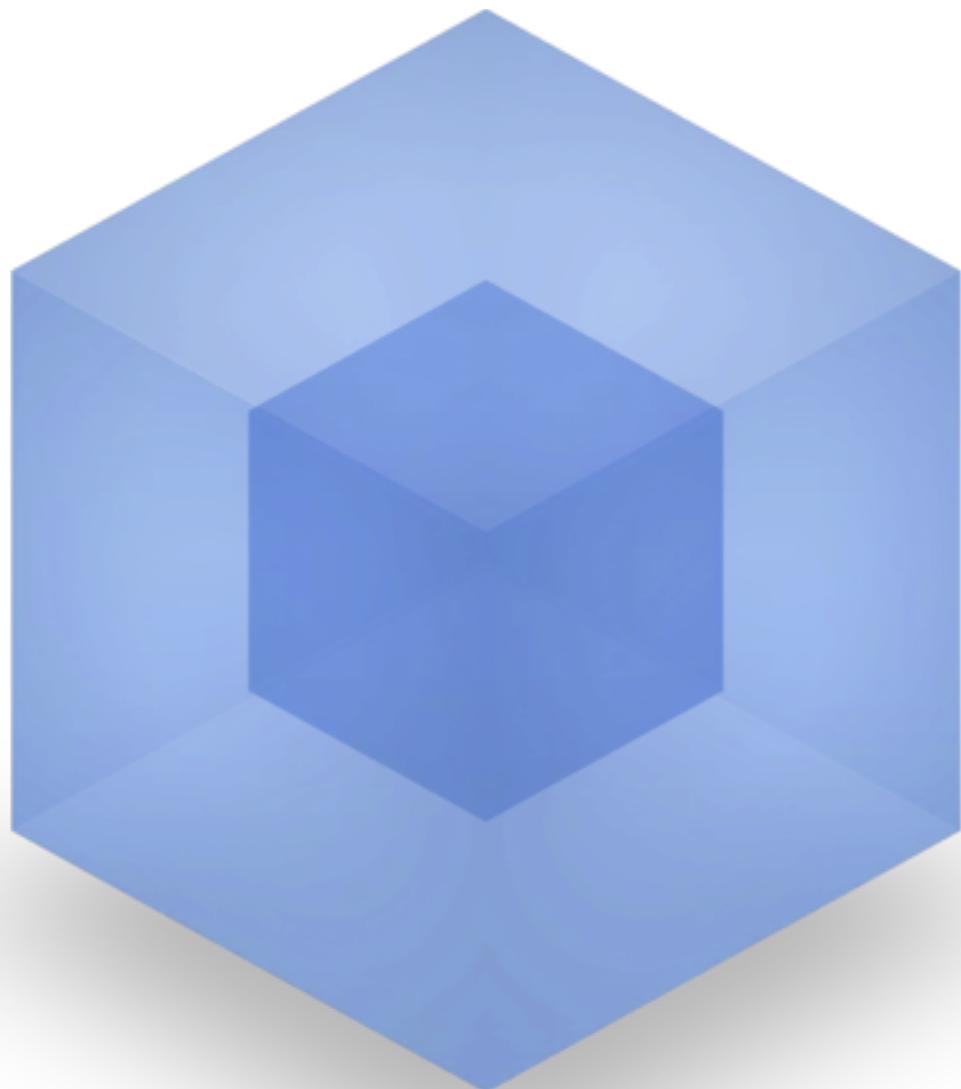


ES6

BABEL

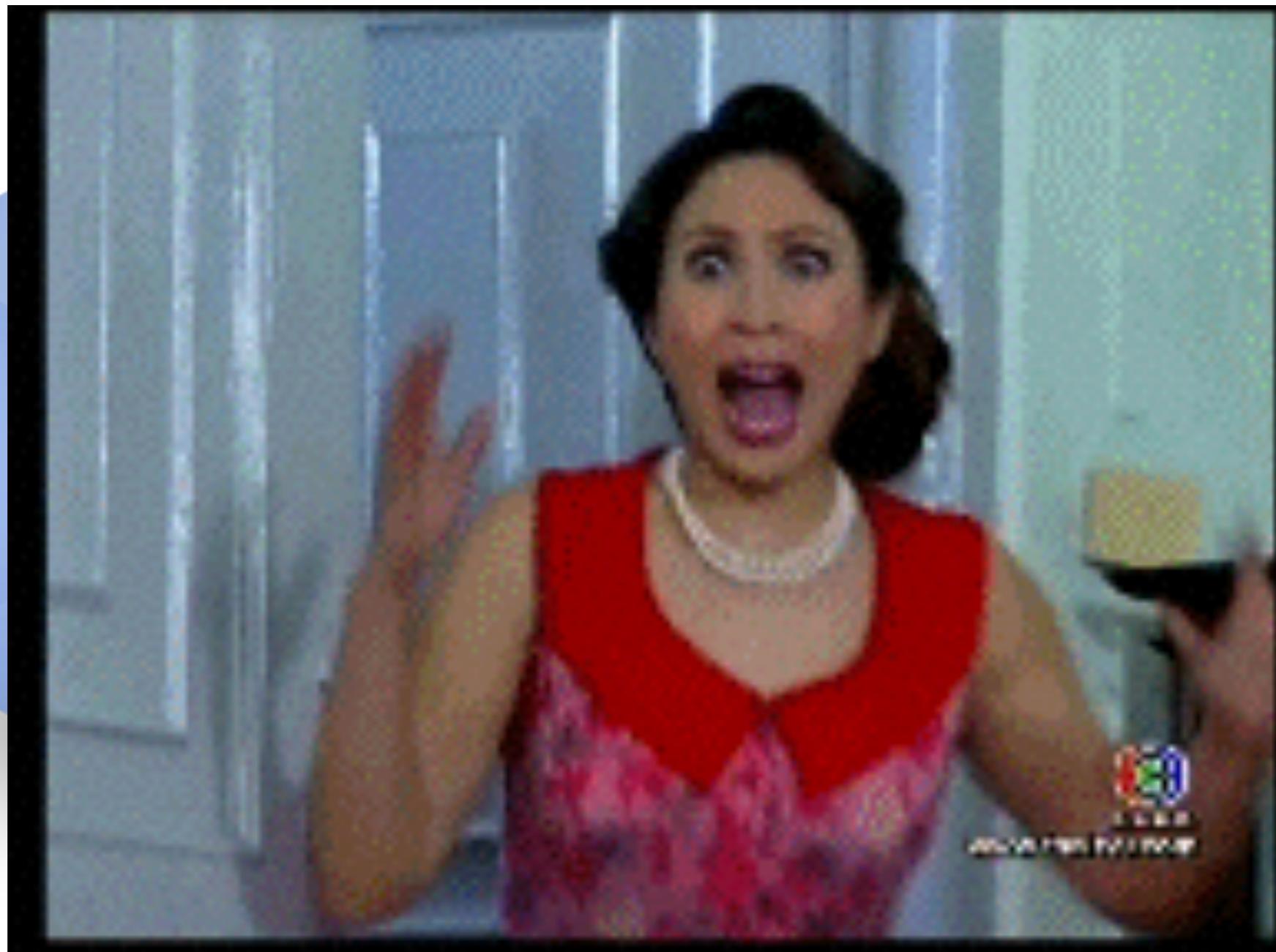


ESLint



webpack
MODULE BUNDLER





ck
UNDLER

LOLITIC

Dependencies

```
"autoprefixer"
"babel-core"
"babel-eslint"
"babel-jest"
"babel-loader"
"babel-plugin-syntax-async-functions"
"babel-plugin-syntax-trailing-function-commas"
"babel-plugin-transform-class-properties"
"babel-plugin-transform-object-rest-spread"
"babel-plugin-transform-react-constant-elements"
"babel-plugin-transform-regenerator"
"babel-plugin-transform-runtime"
"babel-preset-es2015"
"babel-preset-es2016"
"babel-preset-react"
"babel-runtime"
"case-sensitive-paths-webpack-plugin"
"chalk"
"connect-history-api-fallback"
"cross-spawn"
"css-loader"
"detect-port"
"eslint"
"eslint-loader"
"eslint-plugin-flowtype"
"eslint-plugin-import"
"eslint-plugin-jsx-a11y"
"eslint-plugin-react"
"extract-text-webpack-plugin"
"file-loader"
"filesize"
"fs-extra"
"gzip-size"
"html-loader"
"html-webpack-plugin"
"http-proxy-middleware"
"jest"
"json-loader"
"object-assign"
"opn"
"path-exists"
"postcss-loader"
"promise"
"recursive-readdir"
"rimraf"
"strip-ansi"
"style-loader"
"url-loader"
"webpack"
"webpack-dev-server"
"whatwg-fetch"
```

Dependencies

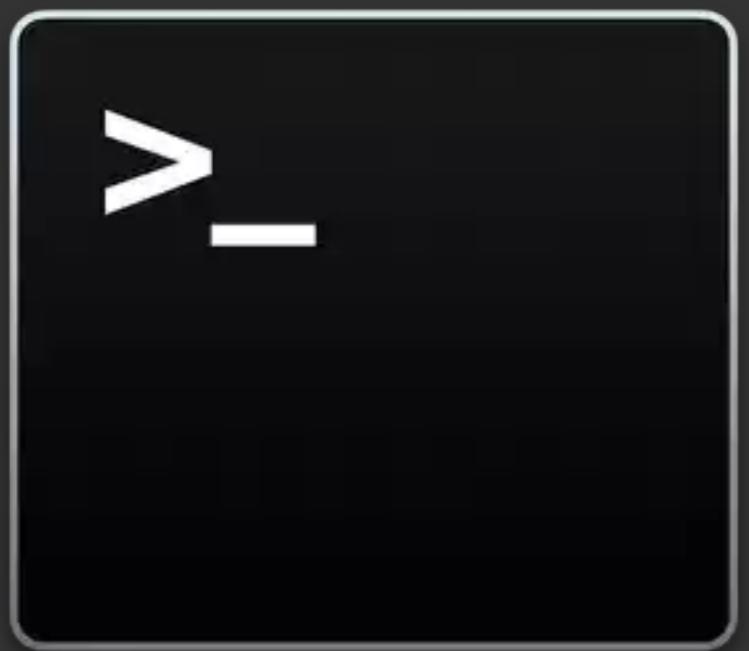
```
"autoprefixer"
"babel"
"babel-eslint"
"babel-jest"
"babel-polyfill"
"babel-preset-env"
"babel-preset-react"
"babel-preset-stage-0"
"babel-preset-stage-1"
"babel-preset-stage-2"
"babel-preset-stage-3"
"babel-preset-stage-4"
"babel-preset-stage-5"
"babel-preset-stage-6"
"babel-preset-stage-7"
"babel-preset-stage-8"
"babel-preset-stage-9"
"case-sensitive-paths-webpack-plugin"
"chalk"
"connect"
"cross-env"
"css-loader"
"detec"
"eslint"
"eslint"
"eslint-plugin-flowtype"
"eslint-plugin-import"
"whatwg-fetch"
```

A photograph of a person with dark hair, wearing a grey hoodie, sitting at a desk and looking down at a laptop screen. The screen displays a terminal window with a long list of npm package names. In the bottom right corner of the slide, there is a small watermark or logo for "WHATWG WHATWG WHATWG WHATWG".

Today
We have shortcut . . .

FB : ការវិកាយនិតិវិធី

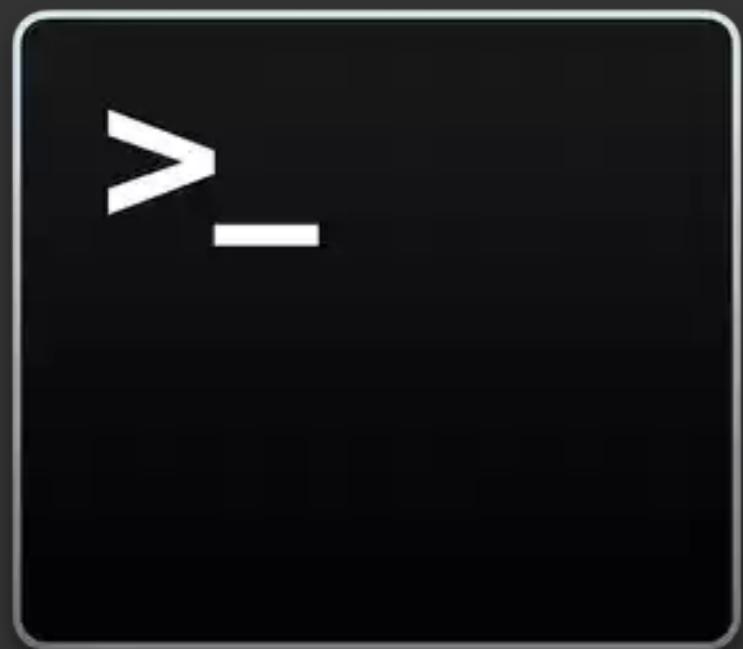




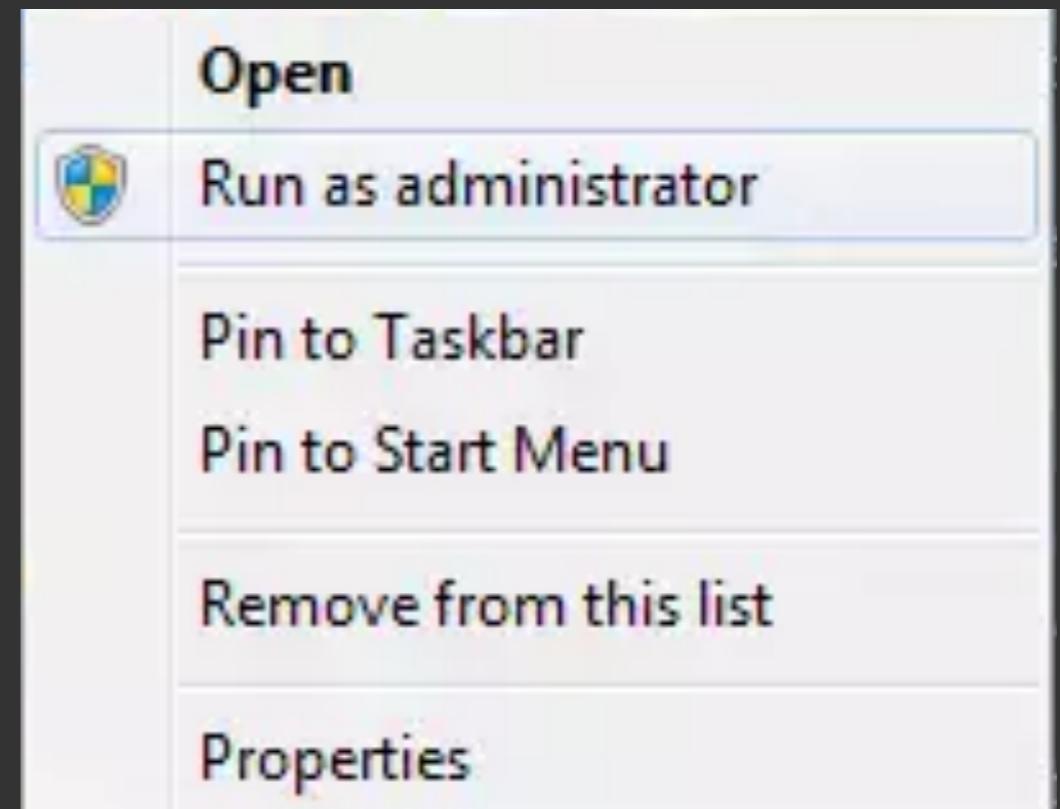
// Open Terminal



// Open CMD



// Open Terminal



// With run as admin



Homebrew

The missing package manager for OS X

```
// Install Homebrew
/usr/bin/ruby -e "$
(curl -fsSL https://
raw.githubusercontent.com/Homebrew/install/
master/install)"
```



```
// Install Chocolatey
@powershell -NoProfile -
ExecutionPolicy Bypass -
Command "iex ((New-Object
System.Net.WebClient).Dow
nloadString('https://
chocolatey.org/
install.ps1'))" && SET
"PATH=%PATH%;
%ALLUSERSPROFILE%
\chocolatey\bin"
```



```
// Install nodeJS  
$ brew install node
```



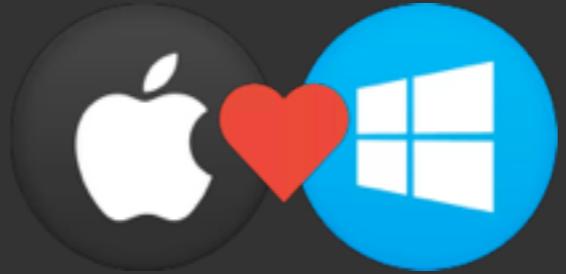
```
// Install nodeJS  
> choco install nodejs.install
```



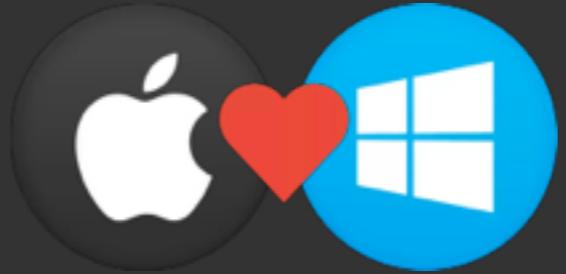
```
// Install nodeJS  
$ brew install node  
  
// Check nodeJS version  
$ node -v  
v6.4.0
```



```
// Install nodeJS  
> choco install nodejs.install  
  
// Check nodeJS version  
> node -v  
v6.4.0
```

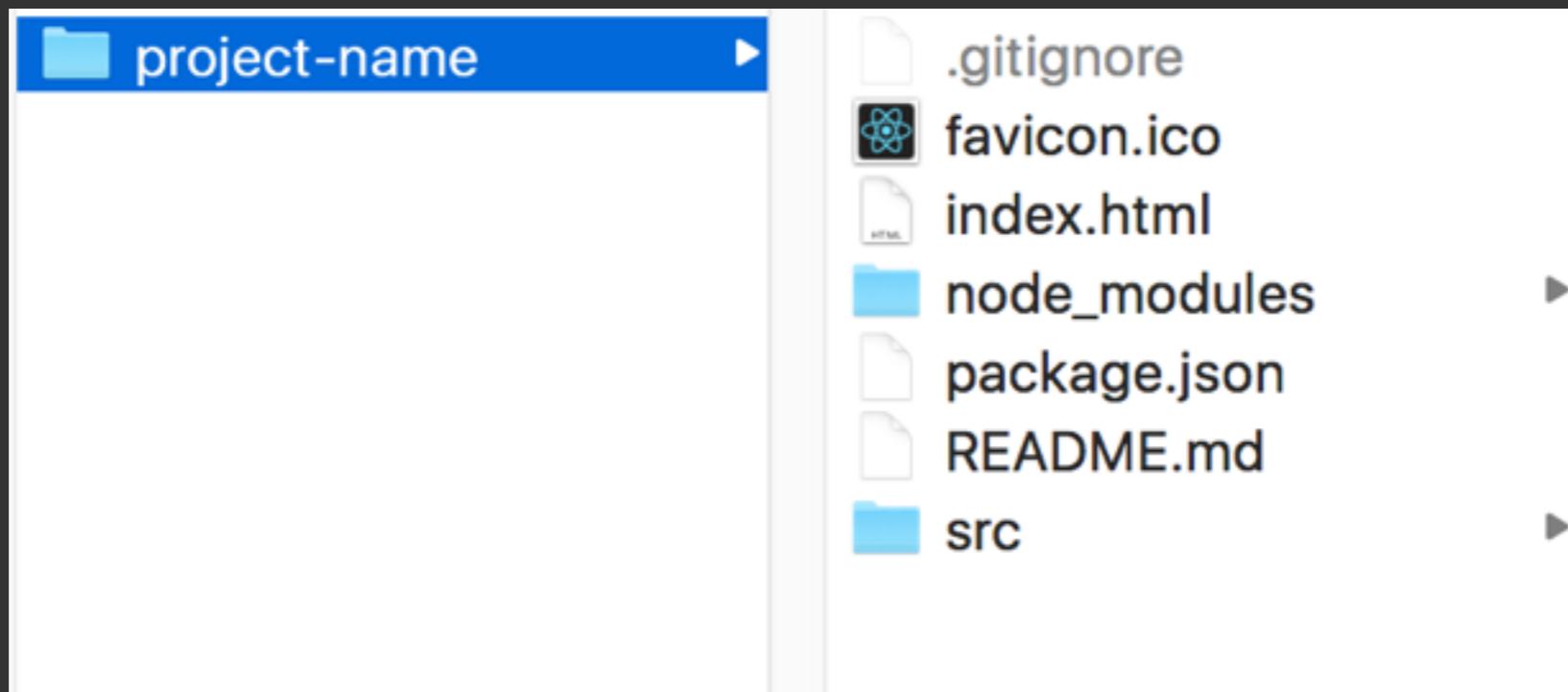


```
// Install create-react-app  
$ npm install -g create-react-app
```



```
// Install create-react-app  
$ npm install -g create-react-app
```

```
// Create react project  
$ create-react-app project-name
```



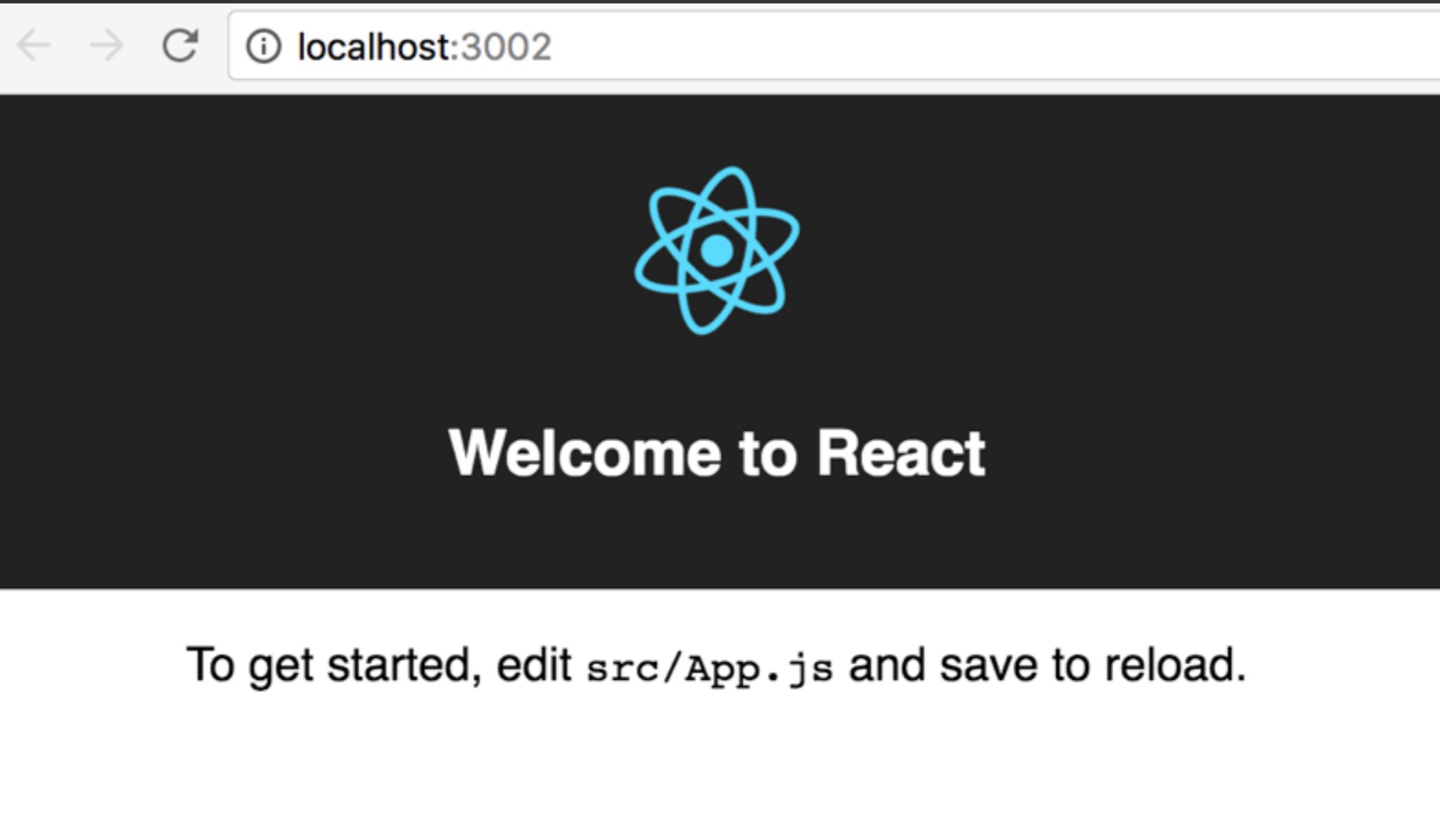


```
// Install create-react-app  
$ npm install -g create-react-app
```

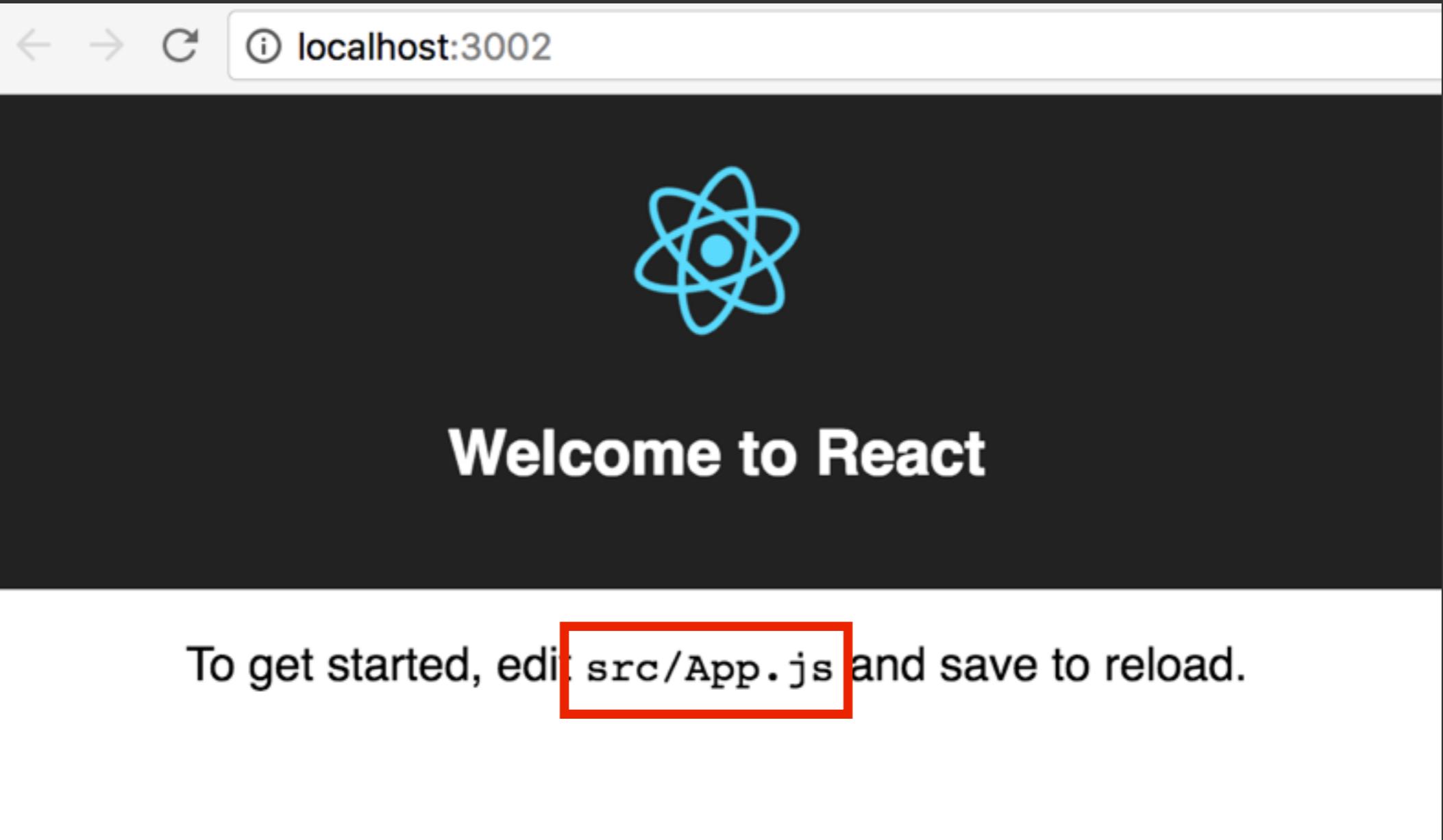
```
// Create react project  
$ create-react-app project-name
```

```
// Go to project folder  
$ cd project-name
```

```
// Start develop  
$ npm start
```







```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg'
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header" >
          // ES6 for humans
          https://github.com/metagrover/ES6-for-humans
        </div>
      </div>
    );
  }
}
export default App;
```



oad.

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';

class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}

export default App;
```

Assets

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';

class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="React logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <a href="https://github.com/facebook/react">src/App.js</a>
        </p>
      </div>
    );
  }
}

export default App;
```

```
// App.css

.App {
  text-align: center;
}

.App-logo {
  animation: App-logo-spin infinite 20s linear;
  height: 80px;
}

.App-header {
  background-color: #222;
  height: 150px;
  padding: 20px;
  color: white;
}

.App-intro {
  font-size: large;
}
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';

class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}

export default App;
```

```
// App.js
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <h2>Hello world</h2>
        </div>
      </div>
    );
  }
}
export default App;
```

```
// App.js
class App extends Component {
Failed to compile.

Error in ./src/App.js
Syntax error: /Users/buffaly/work/test_reactJS_create/project-name/src/App.js:
Unexpected token (9:8)
  7 |     return (
  8 |       <div className="App"
> 9 |         <div className="App-header">
|           ^
|           <h2>Hello world</h2>
10 |         </div>
11 |       </div>
12 |     </div>
@ ./src/index.js 11:11-27
}

export default App;
```

```
// App.js
class App extends Component {
  Failed to compile.

  Error in ./src/App.js
  Syntax error
  Unexpected
    7 |
    8 |
  > 9 |
    |
  10 |
  11 |
  12 |   </div>
  @ ./src/index.js 11:11-27
}

export default App;
```



ESLint

rc/App.js:

```
// App.js
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <h2>Hello world</h2>
        </div>
      </div>
    );
  }
}
export default App;
```



```
// App.js
class App extends Component {
  render() {
    return (
      <div>
        <h1>Hello world!</h1>
        <img alt="React logo" src={logo} />
      </div>
    );
  }
}

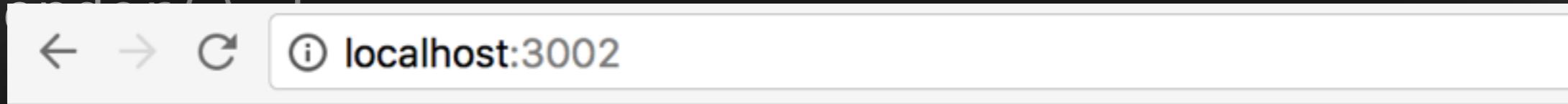
export default App;
```

/Users/buffaly/work/test_reactJS_create/project-name/src/App.js
2:8 warning 'logo' is defined but never used no-unused-vars

*** 1 problem (0 errors, 1 warning)**

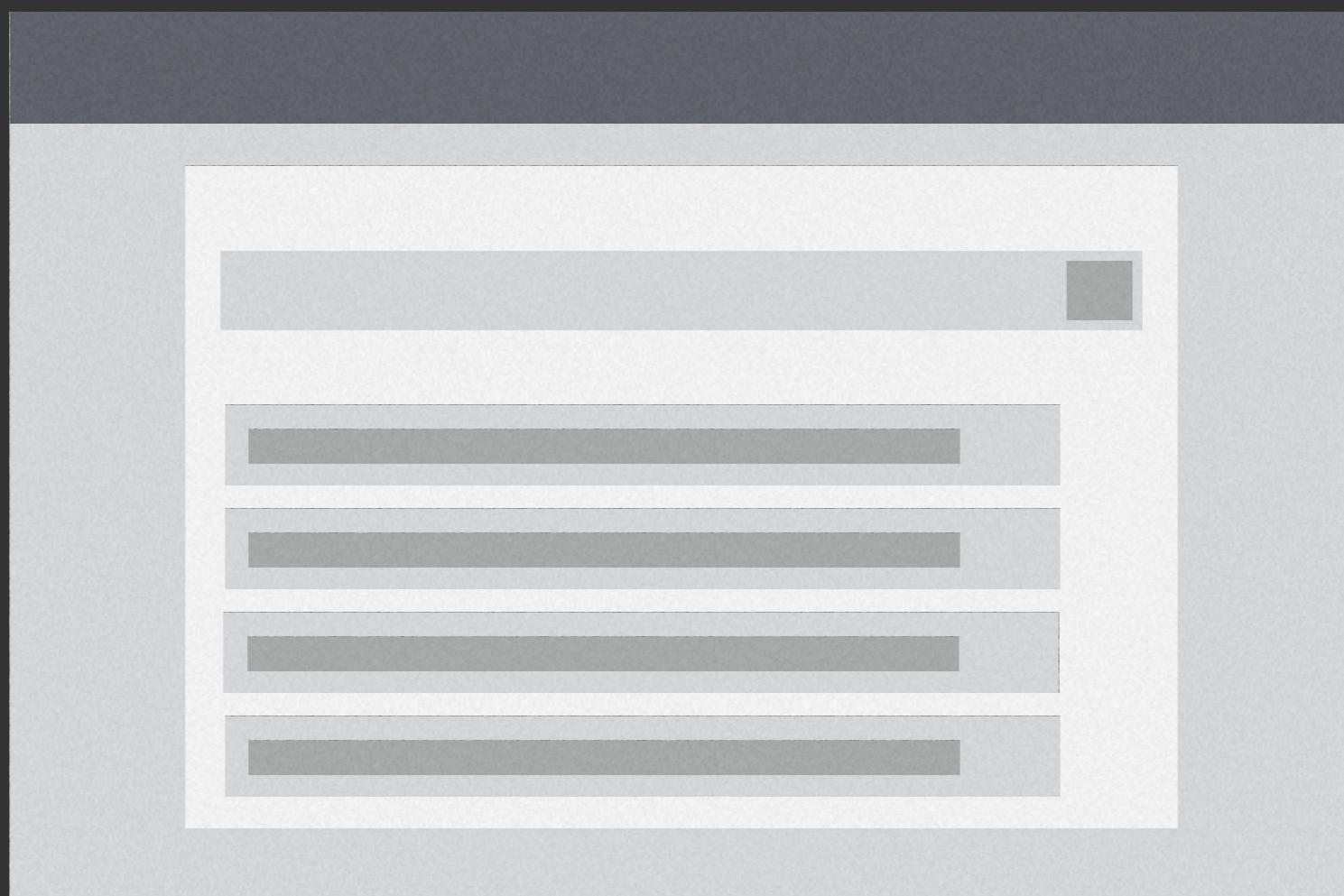
```
// App.js
class App extends Component {
  render() {
    return (
      // ESlint
      https://github.com/airbnb/javascript
      </div>
    );
  }
}
export default App;
```

```
// App.js
class App extends Component {
  render() {
    return (
      <h1>Hello world</h1>
    );
  }
}
export default App;
```



Example

To-do-list



How to create component

```
// Todo.js
```

```
import React, { Component } from 'react';

export class Todo extends Component {
  render() {
    return (
      <div></div>
    );
  }
}
```

```
// Todo.js
```

```
import React, { Component } from 'react';
```

```
export class Todo extends Component {
```

```
  render() {
```

```
    return (
```

```
      <div></div>
```

```
    );
```

```
}
```

```
}
```



```
// Todo.js

import React, { Component } from 'react';

export class Todo extends Component {
  render() {
    return (
      <div>
        <h1>New component</h1>
      </div>
    );
  }
}
```

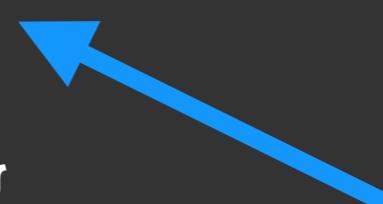


```
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```



```
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```

```
// Todo.js
import React, { Component }

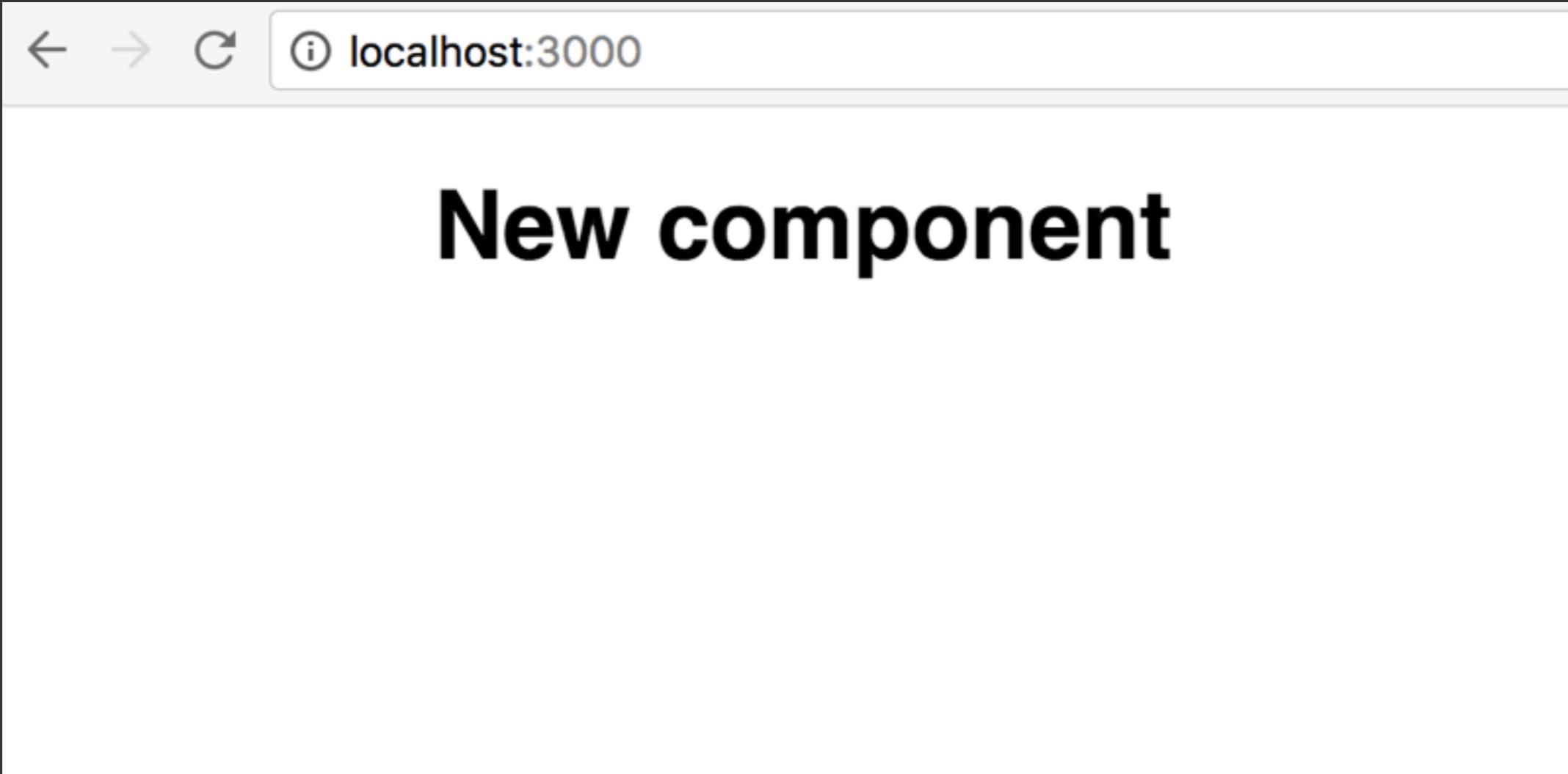
export class Todo extends Component {
  render() {
    return (
      <div></div>
    );
  }
}
```

```
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo, ComponentName, ...} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```



How to use bootstrap in react project

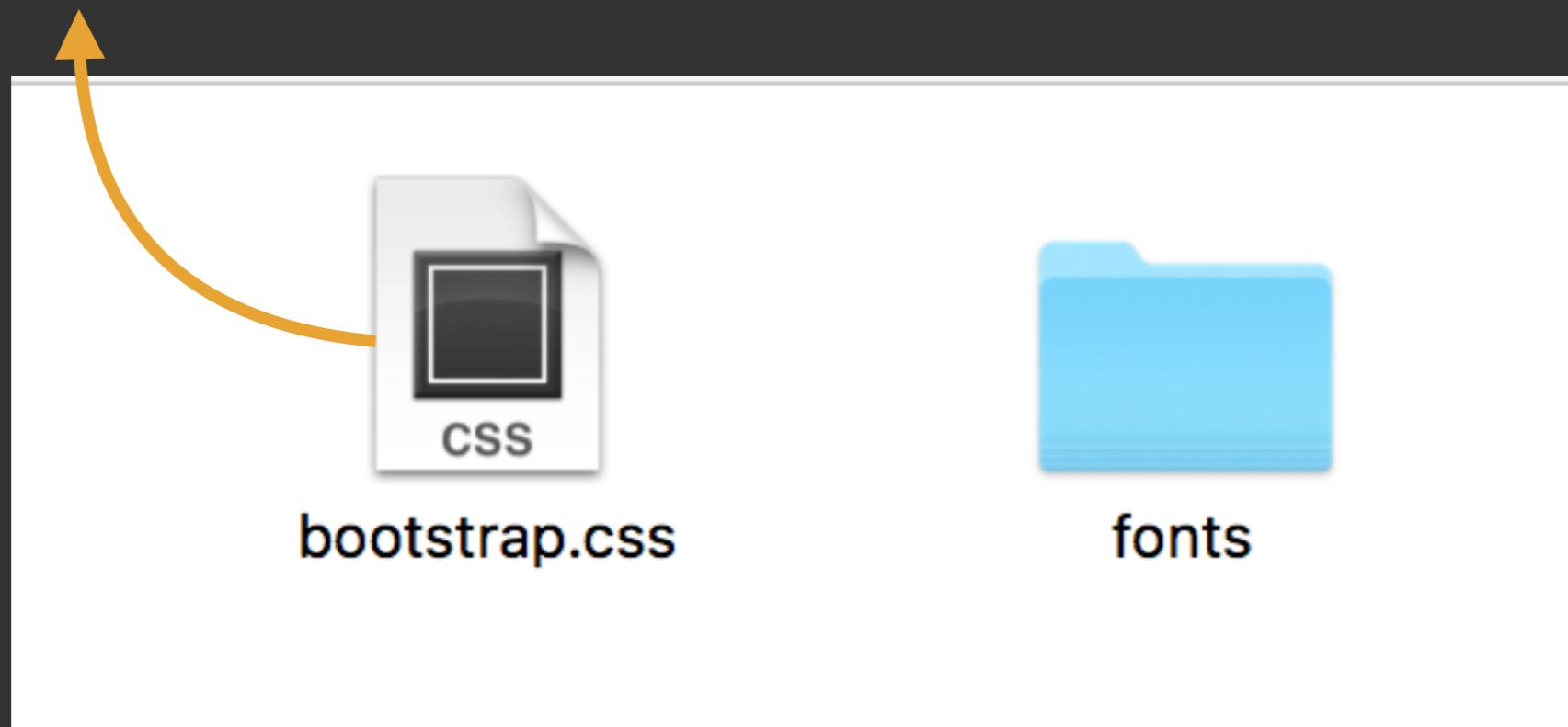


bootstrap.css



fonts

```
// Change path file  
..../fonts => ./font
```



```
// Todo.js
```

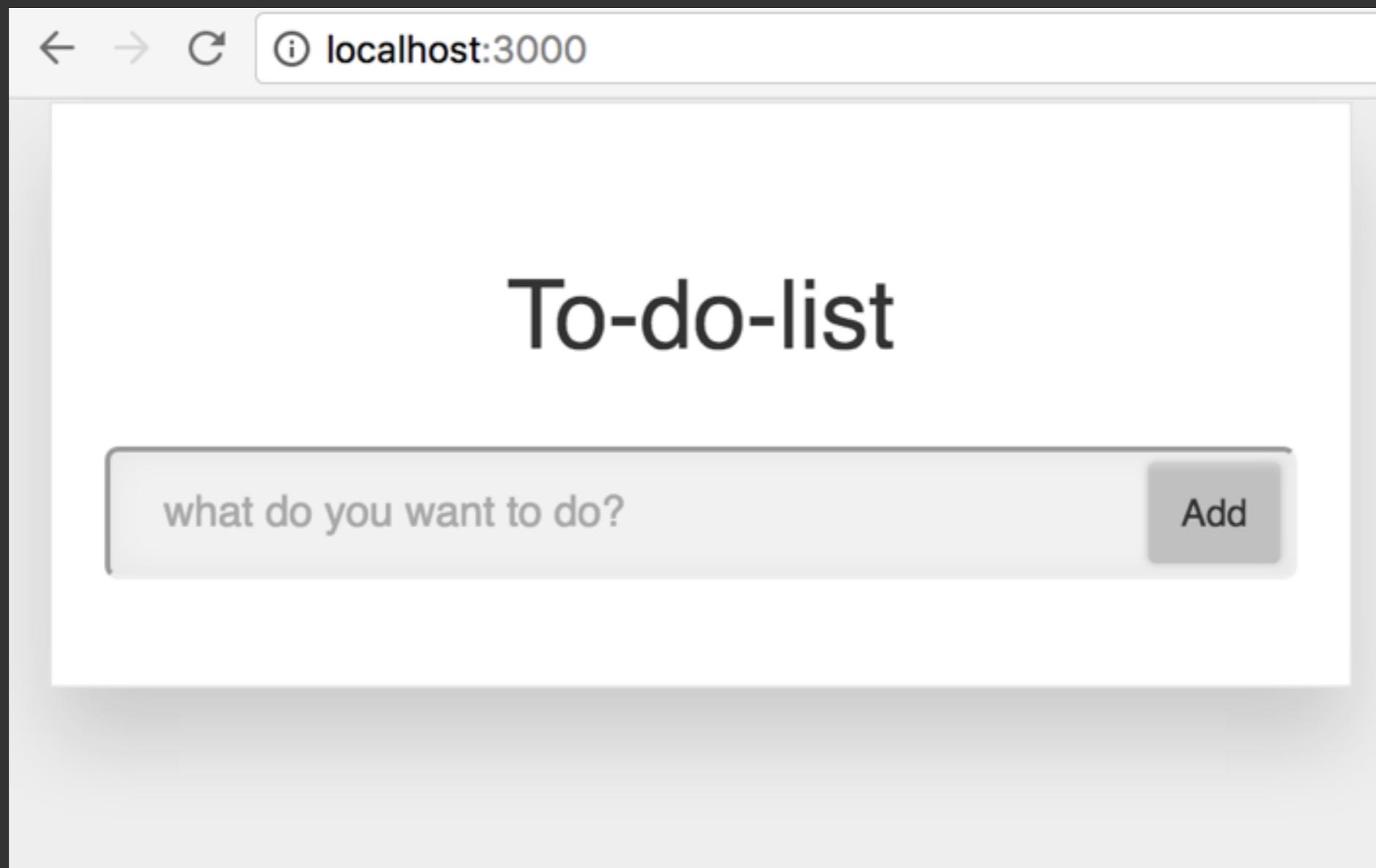
```
import React, { Component } from 'react';
import './bootstrap.css';
import './Todo.css';
...
```



```
// Todo.js
...
export class Todo extends Component {
  render() {
    return (
      <div class="card clearfix">
        <div class="to-do-box">
          <h1 class="title">To-do-list</h1>
          <div class="form-box">
            <input class="input input" type="text">
            <button class="bb-input button">
              Add
            </button>
          </div>
        </div>
      </div>
    ) ;
  }
}
```

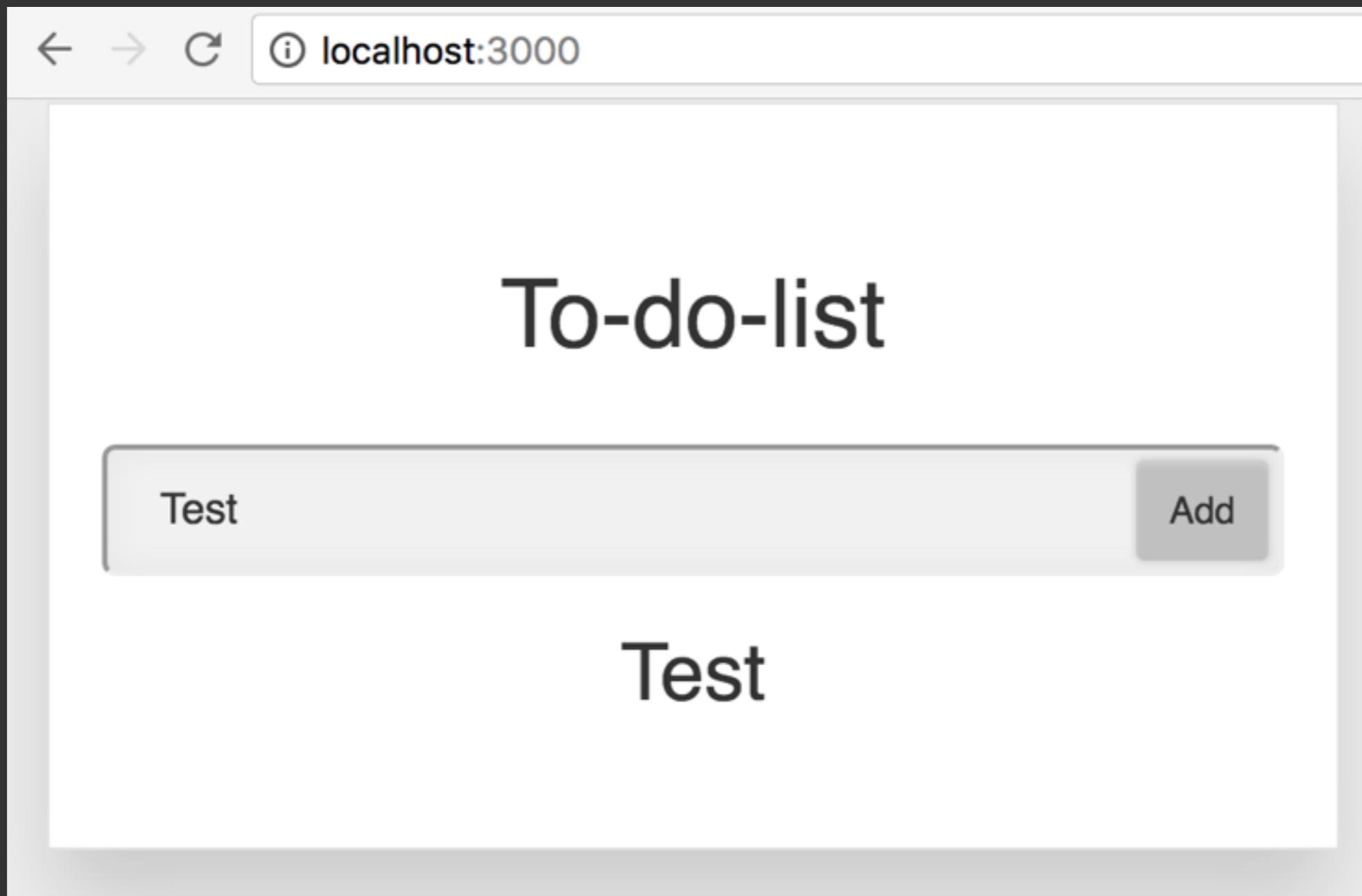
```
// Todo.js
...
export class Todo extends Component {
  render() {
    return (
      <div className="card clearfix">
        <div className="to-do-box">
          <h1 className="title">To-do-list</h1>
          <div className="form-box">
            <input className="input input" type="text" />
            <button className="bb-input button">
              Add
            </button>
          </div>
        </div>
      </div>
    );
  }
}
```

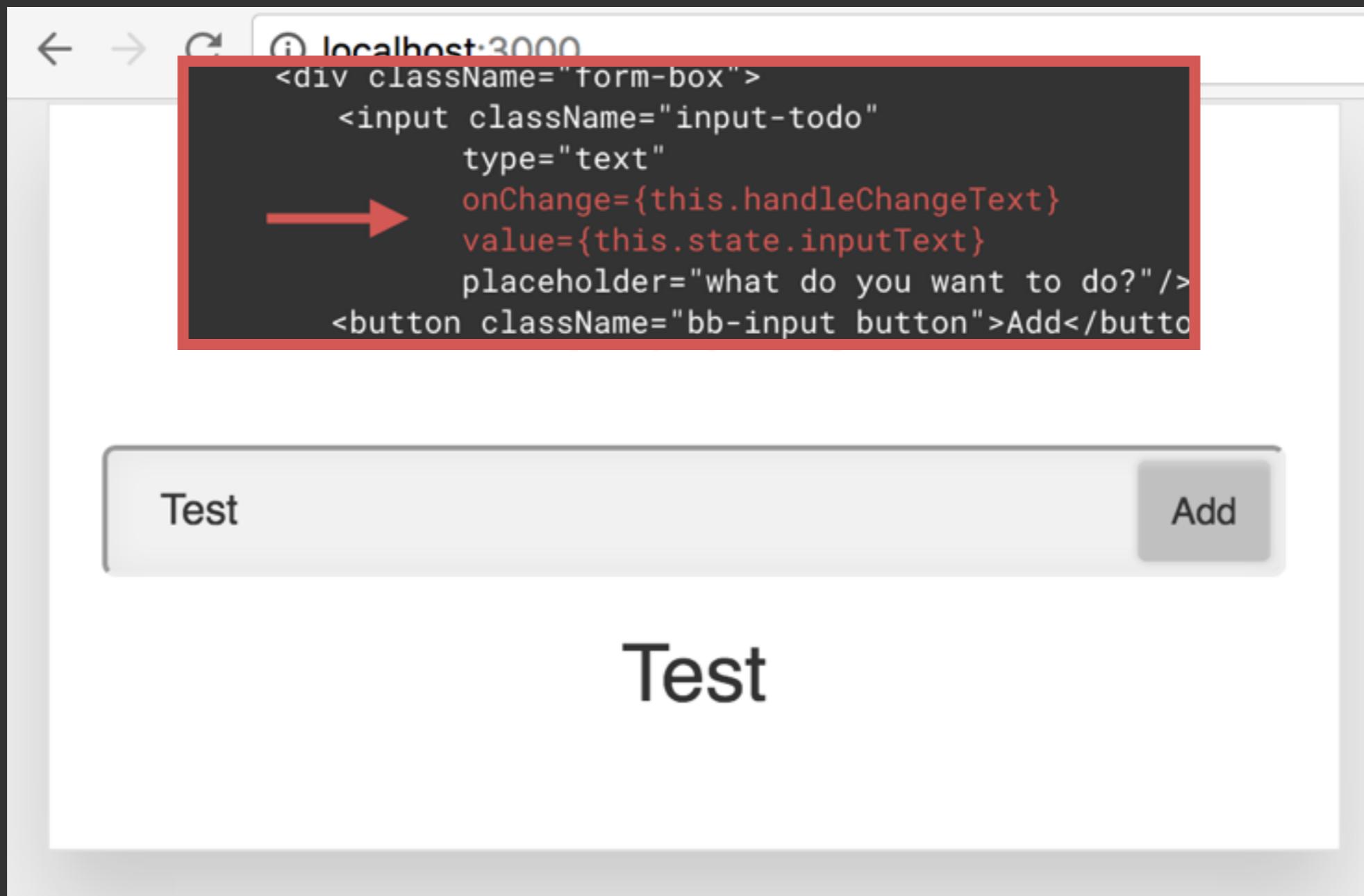
class => className
close tag



```
// Todo.js  
...  
  
export class Todo extends Component {  
  
  state = {  
    inputText: ''  
  }  
  
  handleChangeText = (event) => {  
    this.setState({inputText: event.target.value});  
  }  
  
  render() {  
...  
  }
```

```
// Todo.js  
...  
  
render() {  
  return (  
    <div className="card clearfix">  
      <div className="to-do-box">  
        <h1 className="title">To-do-list</h1>  
        <div className="form-box">  
          <input className="input-todo"  
            type="text"  
            onChange={this.handleChangeText}  
            value={this.state.inputText}  
            placeholder="what do you want to do?"/>  
          <button className="bb-input button">Add</button>  
        </div>  
        <h2>{this.state.inputText}</h2>  
      </div>  
    </div>  
  );  
}  
...
```





The screenshot shows a browser window at `localhost:3000` displaying a component's code and its rendered state.

The component's code is:

```
<div className="form-box">
  handleChangeText = (event) => {
    this.setState({inputText: event.target.value});
  }
<button className="bb-input button">Add</button>
```

The rendered state shows a text input field containing "Test" and a button labeled "Add". A red arrow points from the rendered text "Test" down to the text "Test" in the slide content below.

The screenshot shows a browser window at `localhost:3000` displaying a React component. The component's code is shown in a red-bordered box:

```
<div className="form-box">
  handleChangeText = (event) => {
    this.setState({inputText: event.target.value});
  }
<button className="bb-input button">Add</button>
```

The rendered UI consists of a text input field containing "Test" and a button labeled "Add". A green arrow points from the green-highlighted code block to the "Test" text in the input field, indicating the state value being displayed. A red arrow points from the red-highlighted code block to the "Add" button, indicating the function being triggered by the button click.

```
// Todo.js
...
state = {
  inputText: '',
  listItem: []
}

submitList = () => {
  this.setState({
    listItem: this.state.listItem.concat([this.state.inputText]),
    inputText: ''
  })
}

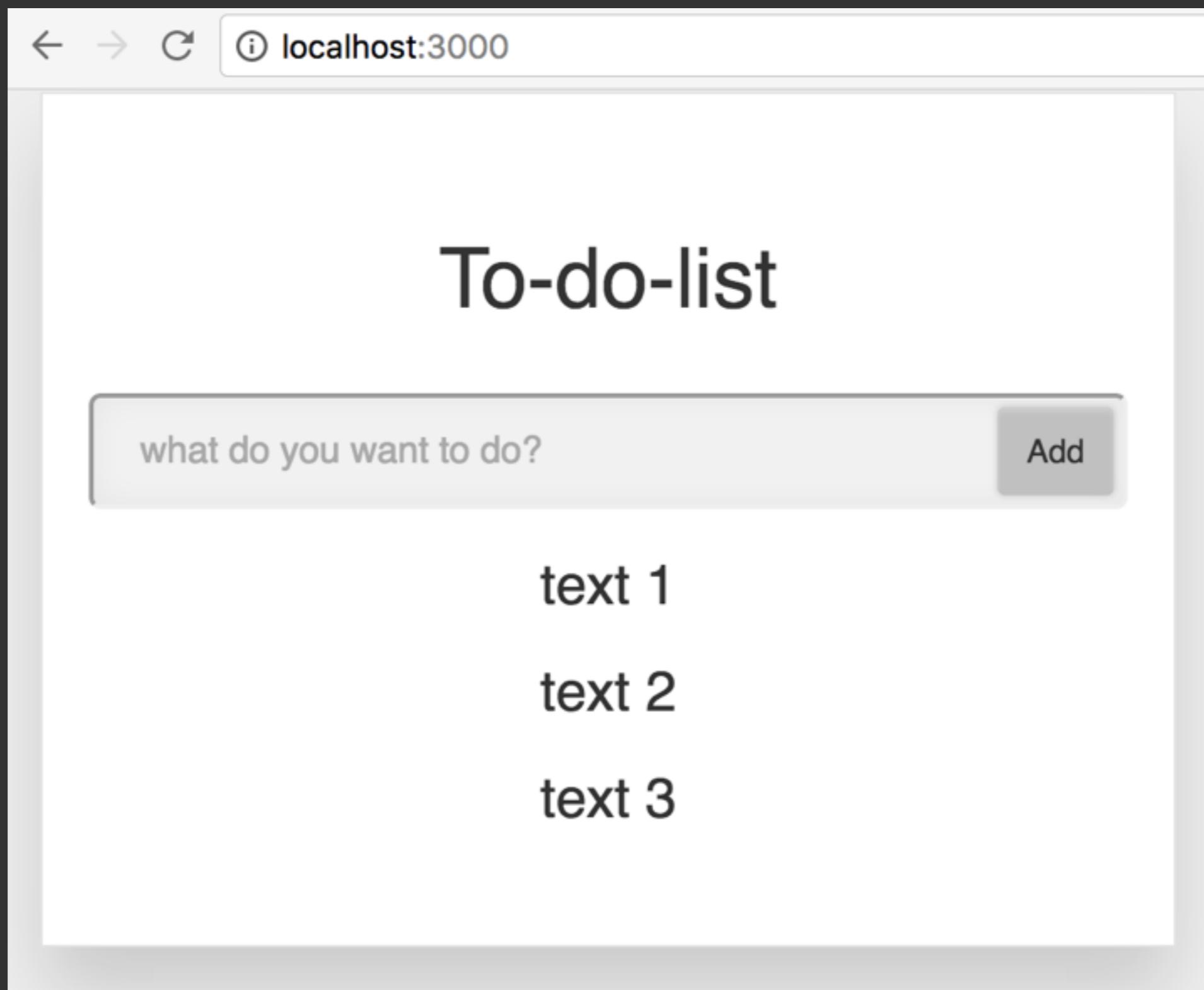
handleKeyPress = (event) => {
  if (event.key === 'Enter') {
    this.submitList();
  }
}

...

```

```
// Todo.js
...
  render() {
    return (
      <div className="card clearfix">
        <div className="to-do-box">
          <h1 className="title">To-do-list</h1>
          <div className="form-box">
            <input className="input-todo"
                  type="text"
                  onChange={this.handleChangeText}
                  value={this.state.inputText}
                  placeholder="what do you want to do?"
                  onKeyPress={this.handleKeyPress}/>
            <button className="bb-input button"
                  onClick={this.submitList}>Add</button>
          </div>
          {
            this.state.listItem.map((value, index) => {
              return (
                <h3 key={index + value}>{value}</h3>
              );
            })
          }
        </div>
      </div>
    );
  }
}
```

```
// Todo.js
...
  render() {
    return (
      <div className="card clearfix">
        <div className="to-do-box">
          <h1 className="title">To-do-list</h1>
          <div className="form-box">
            <input className="input-todo"
                  type="text"
                  onChange={this.handleChangeText}
                  value={this.state.inputText}
                  placeholder="what do you want to do?"
                  onKeyPress={this.handleKeyPress}/>
            <button className="bb-input button"
                  onClick={this.submitList}>Add</button>
          </div>
          {
            this.state.listItem.map((value, index) => {
              return (
                <h3 key={index + value}>{value}</h3>
              );
            })
          }
        </div>
      </div>
    );
  }
}
```



```
// Todo.js
...
  render() {
    return (
      <div className="card clearfix">
        <div className="to-do-box">
          <h1 className="title">To-do-list</h1>
          <div className="form-box">
            <input className="input-todo"
                  type="text"
                  onChange={this.handleChangeText}
                  value={this.state.inputText}
                  placeholder="what do you want to do?"
                  onKeyPress={this.handleKeyPress}/>
            <button className="bb-input button"
                  onClick={this.submitList}>Add</button>
          </div>
          {
            this.state.listItem.map((value, index) => {
              return (
                <h3 key={index + value}>{value}</h3>
              );
            })
          }
        </div>
      </div>
    );
  }
}
```

```
// Todo.js
```

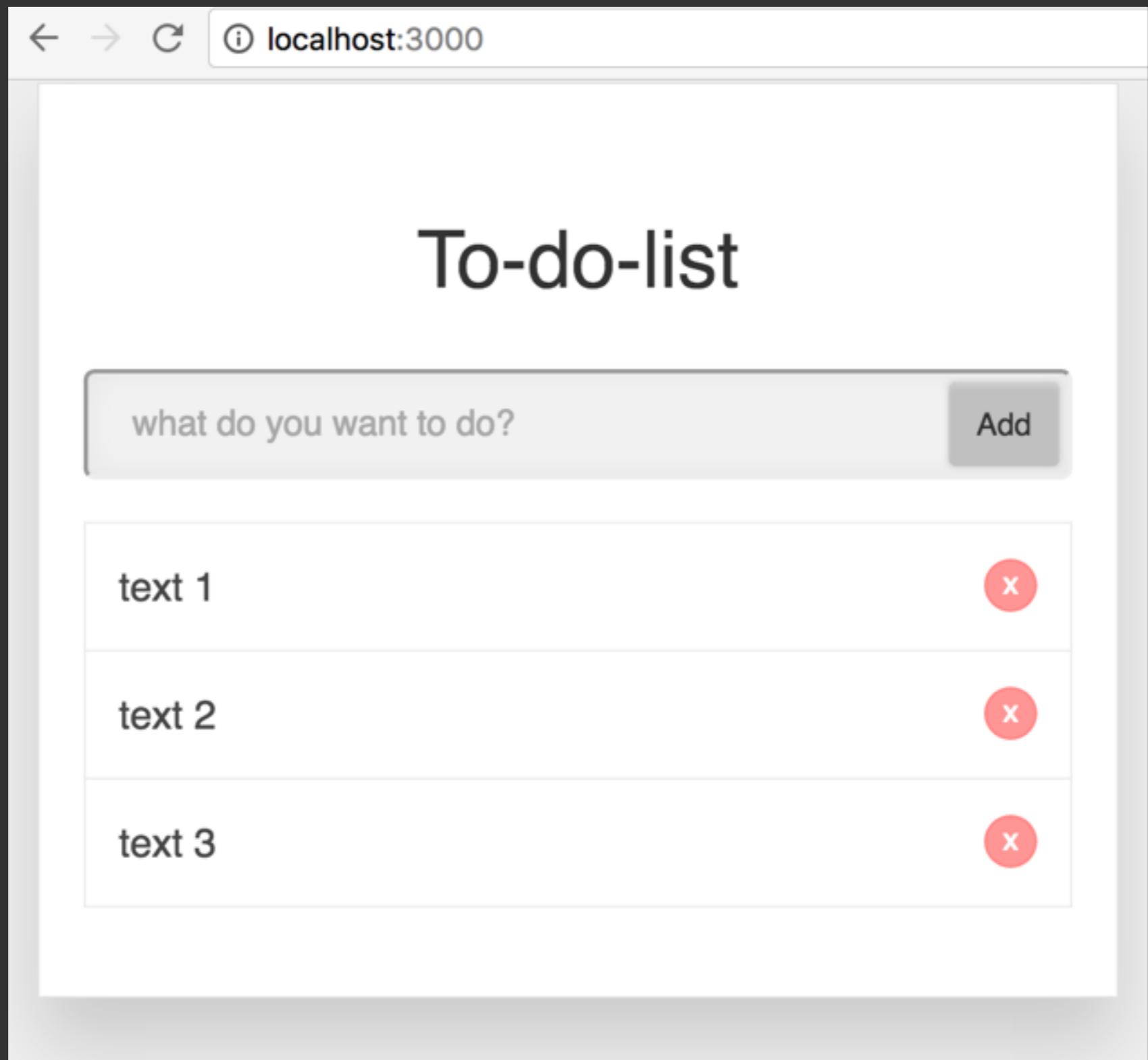
```
...
```

```
render() {
  return (
    <div className="list-box">
      {this.state.listItem.map((value, index) => {
        return (
          <div key={index + value} className="list-item">
            <div className="text-list">{value}</div>
            <div className="bb-action">x</div>
          </div>
        );
      })}
    </div>
  );
}
```



```
{
```

```
  this.state.listItem.map((value, index) => {
    return (
      <h3 key={index + value}>{value}</h3>
    );
  });
}
</div>
</div>
);
}
```



```
// Todo.js
```

```
...
```

```
deleteListAtIndex = (index) => {
  this.state.listItem.splice(index, 1);
}
```

```
...
```

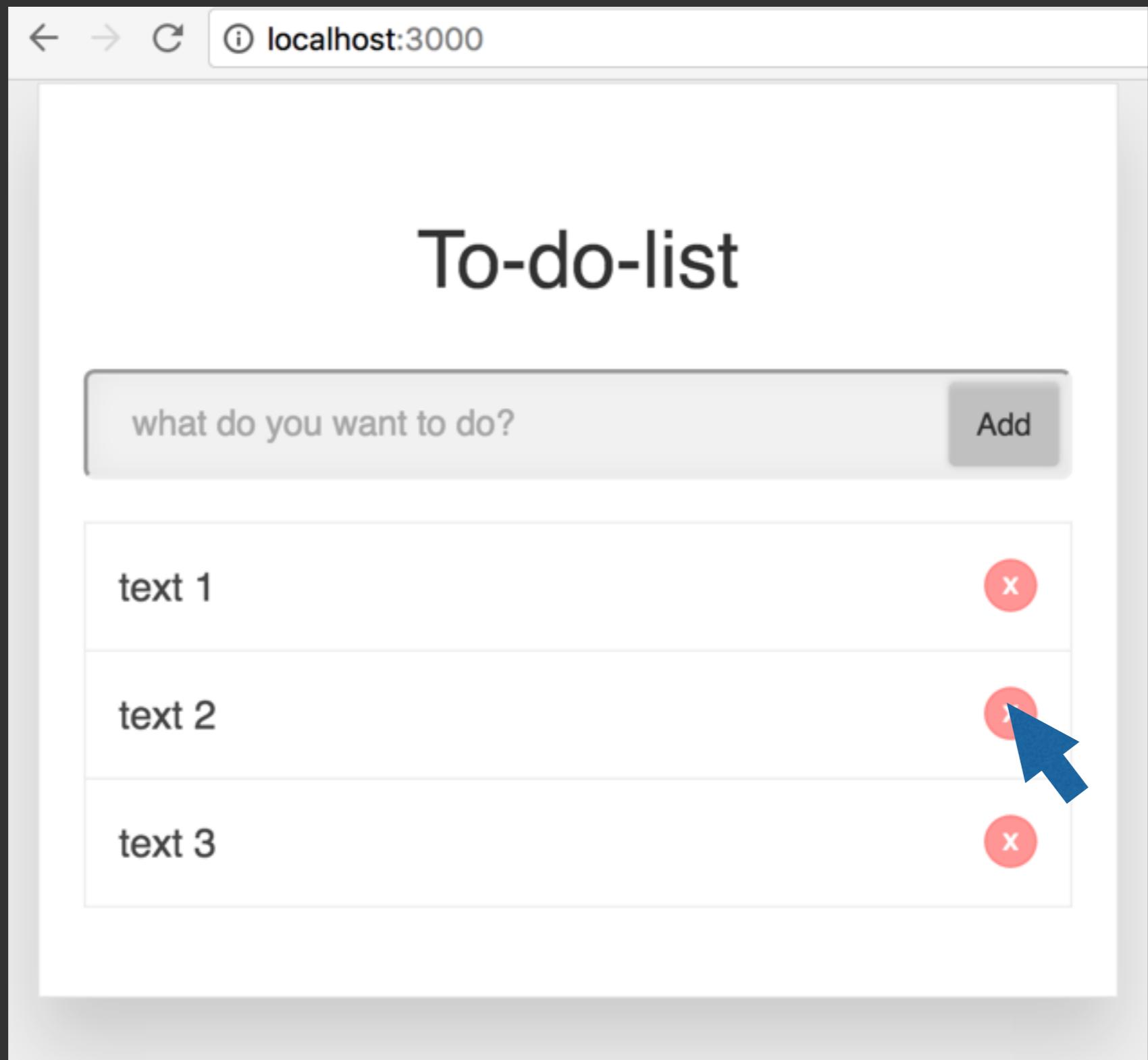
```
// Todo.js  
...  
  
{this.state.listItem.map((value, index) => {  
  return (  
    <div key={index + value}  
      className="list-item">  
      <div className="text-list">{value}</div>  
      <div className="bb-action"  
        onClick={this.deleteListAtIndex(index)}>x</div>  
    </div>  
  );  
})}  
...  
...
```

```
// Todo.js  
...  
  
{this.state.listItem.map((value, index) => {  
  return (  
    <div key={index + value}  
      className="list-item">  
      <div className="text-list">{value}</div>  
      <div className="bb-action"  
        onClick={this.deleteListAtIndex(index)}>x</div>  
    </div>  
  );  
})}  
...  
...
```



```
// Todo.js  
...  
  
{this.state.listItem.map((value, index) => {  
  return (  
    <div key={index + value}  
      className="list-item">  
      <div className="text-list">{value}</div>  
      <div className="bb-action"  
        onClick={this.deleteListAtIndex.bind(this, index)}>x</div>  
    </div>  
  );  
})}  
...  
...
```





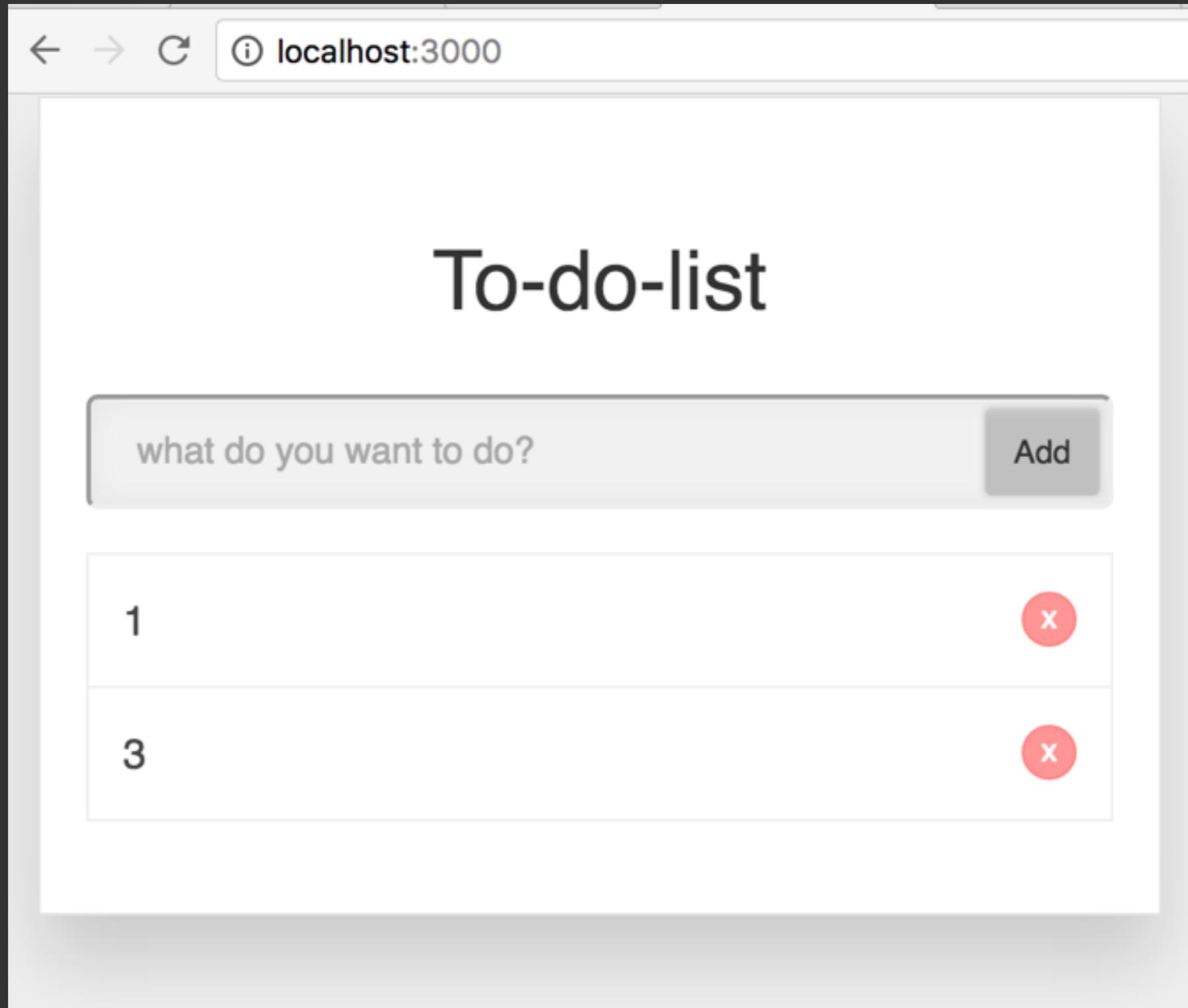
```
// Todo.js
```

```
...
```

```
deleteListAtIndex = (index) => {
  this.state.listItem.splice(index, 1);
  this.setState({});
```

```
}
```

```
...
```





```
// Todo.js
```

```
...
```

```
deleteListAtIndex = (index) => {
  this.state.listItem.splice(index, 1);
this.setState({});
}
```

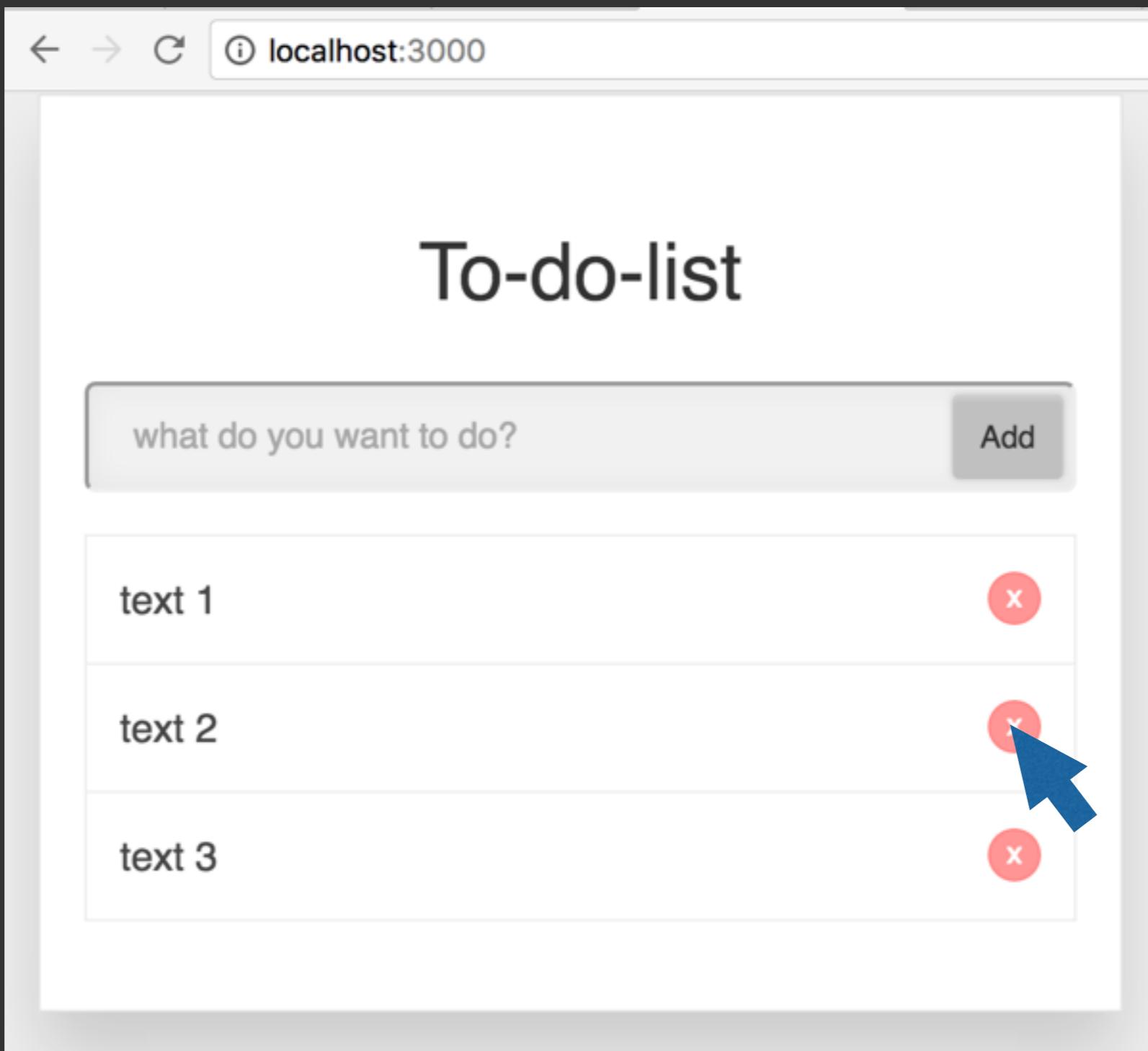
```
...
```

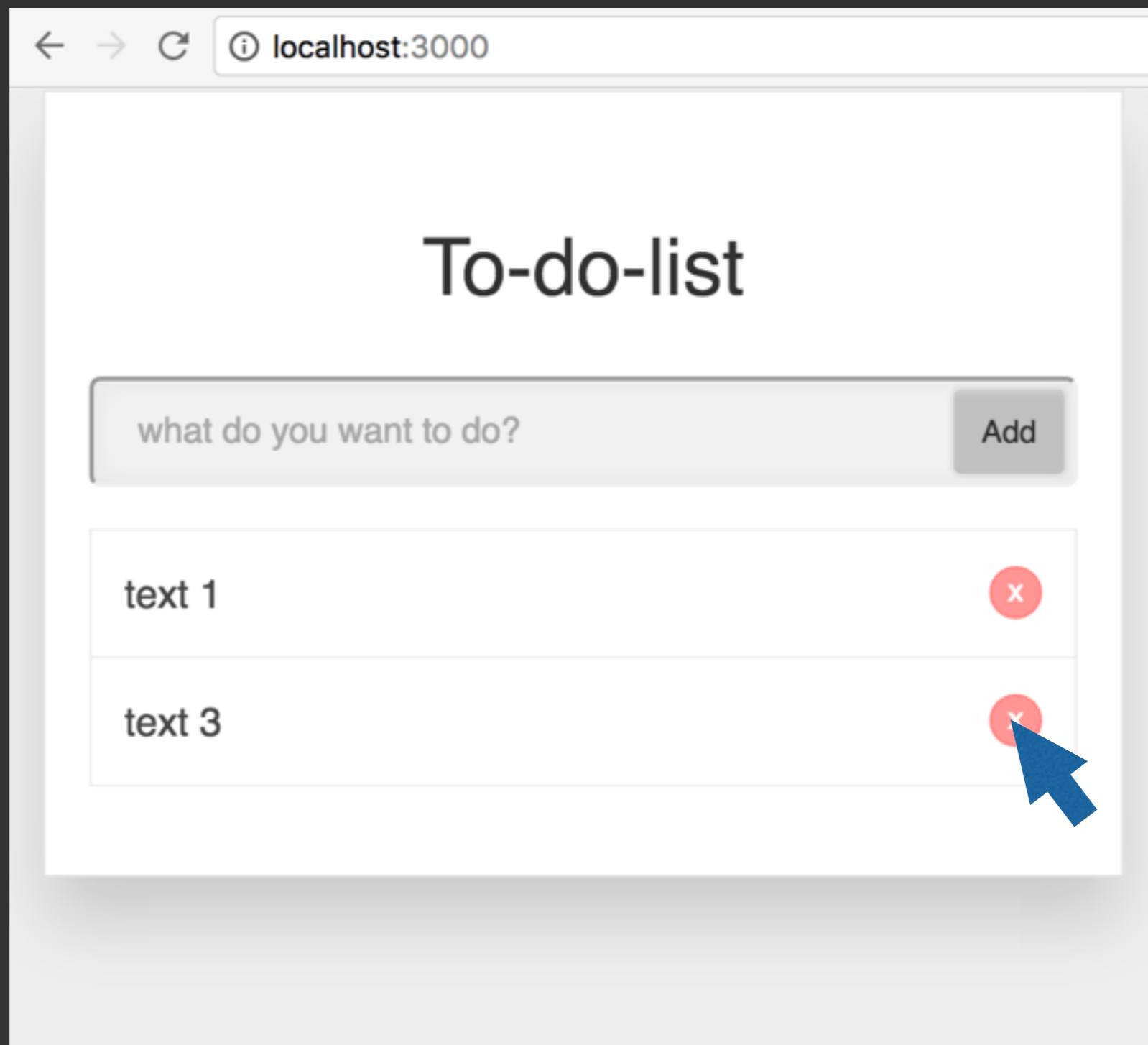
```
// Todo.js
```

```
...
```

```
deleteListAtIndex = (index) => {
  const resule = this.state.listItem;
  resule.splice(index, 1);
  this.setState({
    listItem: resule
  });
}
```

```
...
```







Ohhh yeah!

How to reuse component

```
// App.js
...
render() {
  return (
    <div className="App">
      <div className="container">
        <div className="row">
          <div className="col-md-3">
            <Todo />
          </div>
          <div className="col-md-6">
            <Todo />
          </div>
          <div className="col-md-3">
            <Todo />
          </div>
        </div>
      </div>
    </div>
  );
}
```

To-do-list

what do you want to do?

Add

test 1

X

To-do-list

what do you want to do?

Add

test 2

X

To-do-list

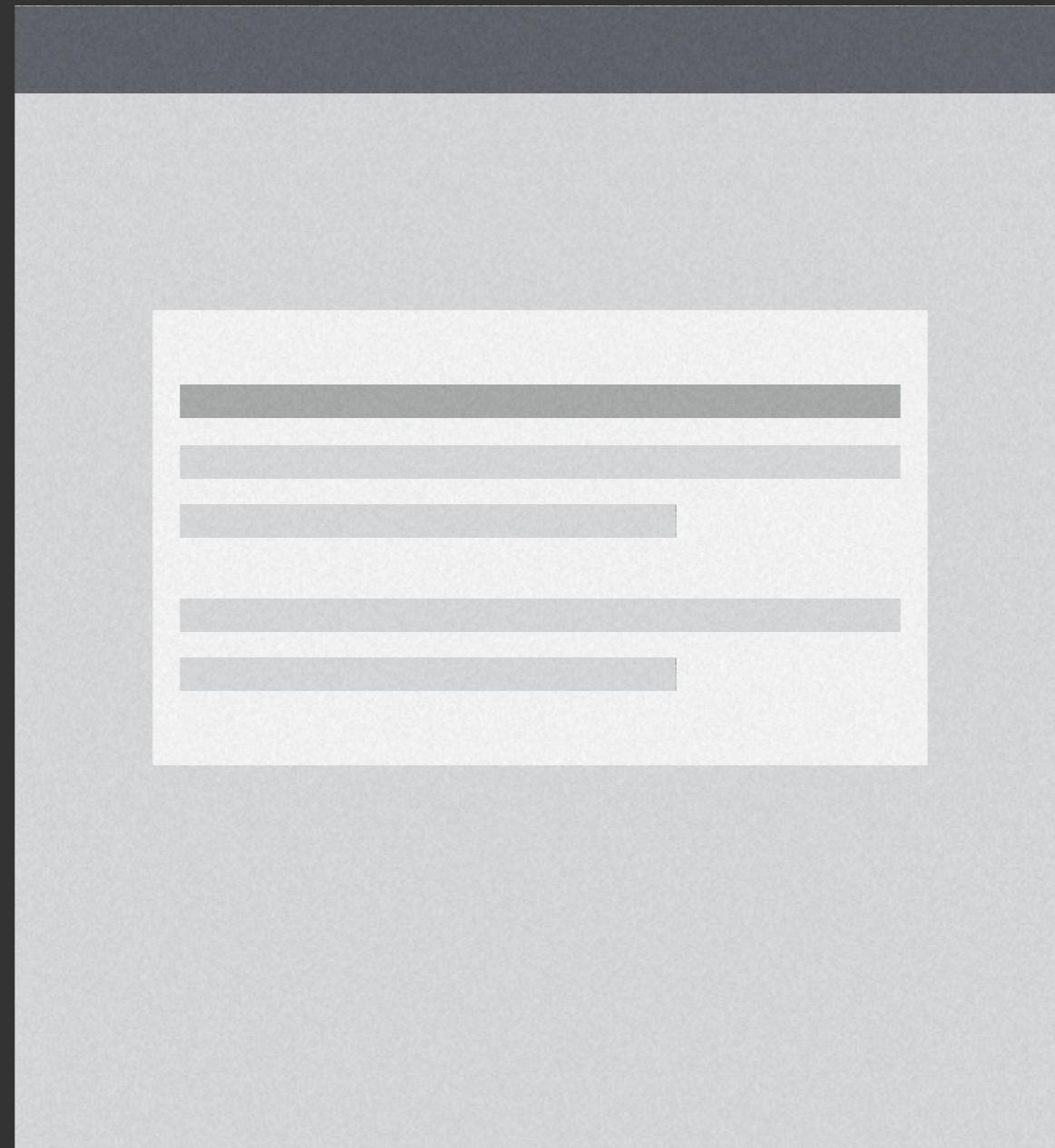
what do you want to do?

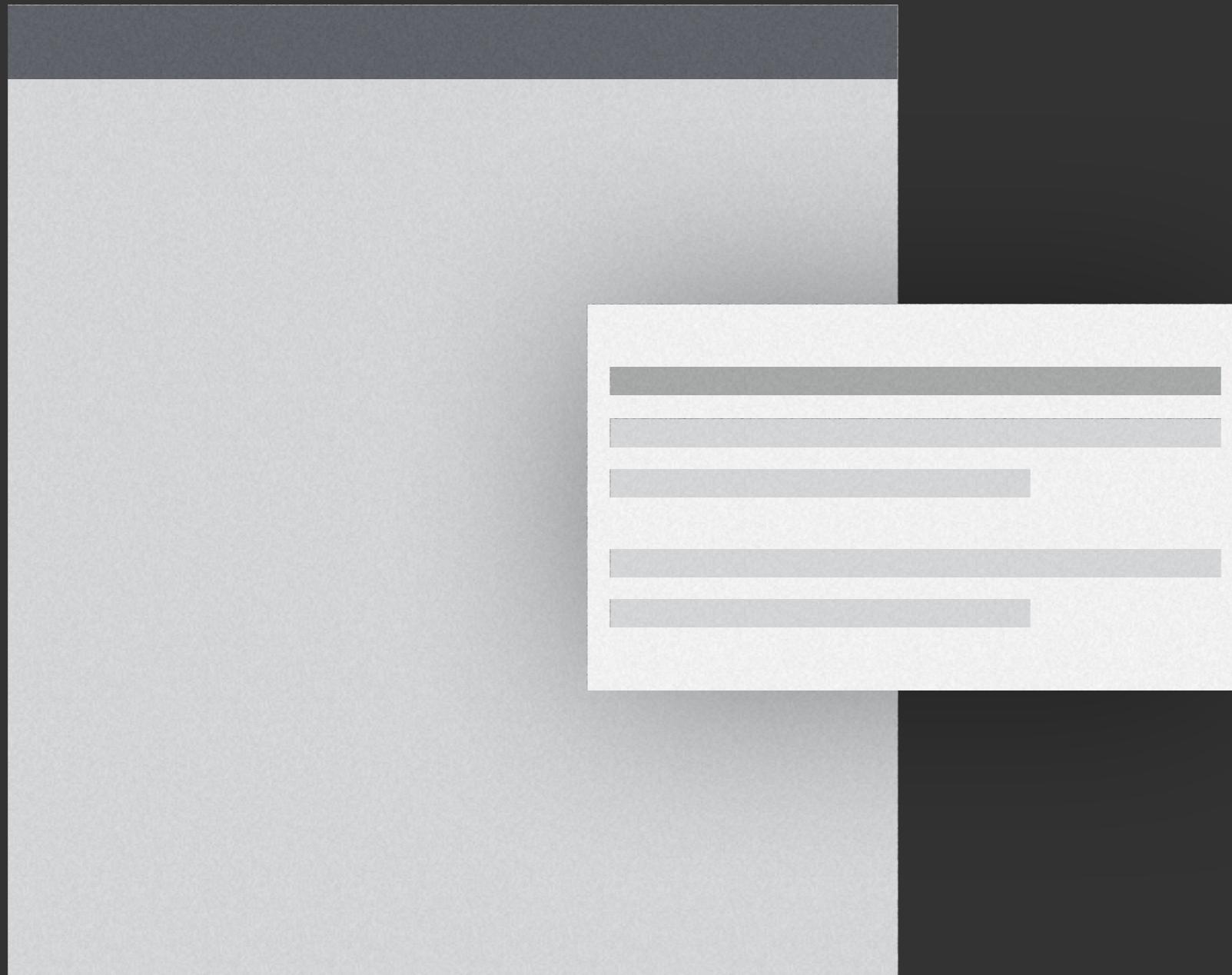
Add

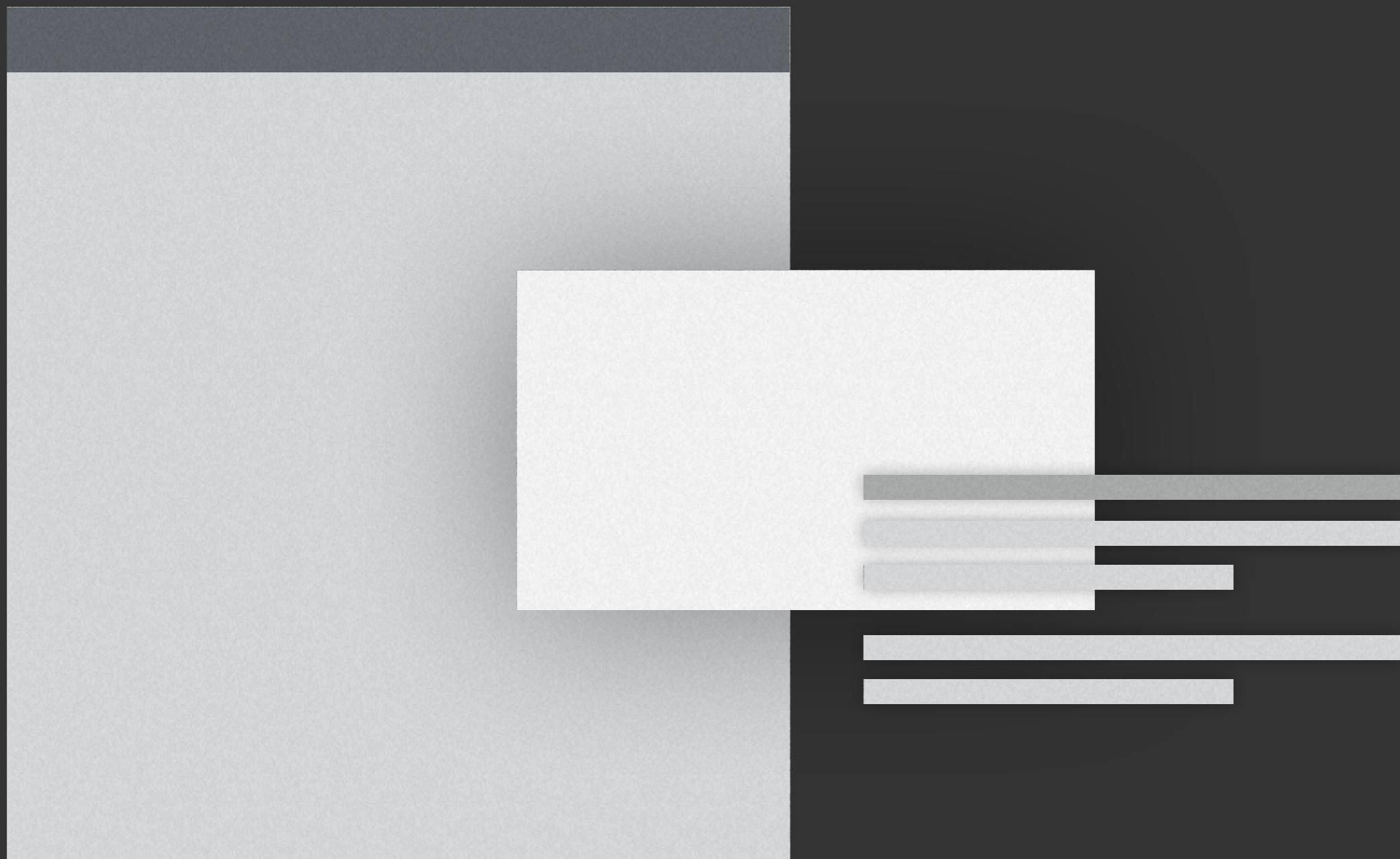
test 3

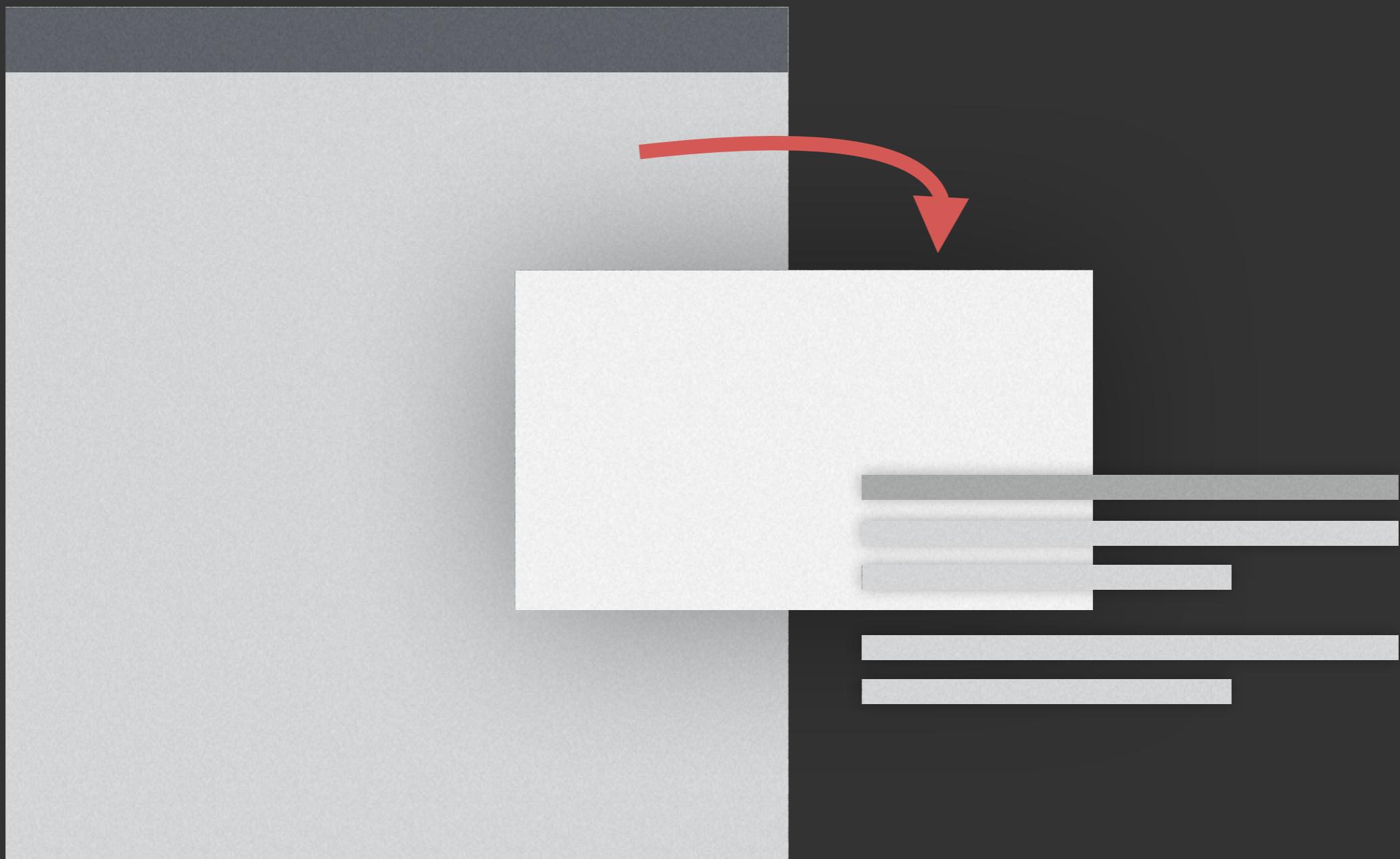
X

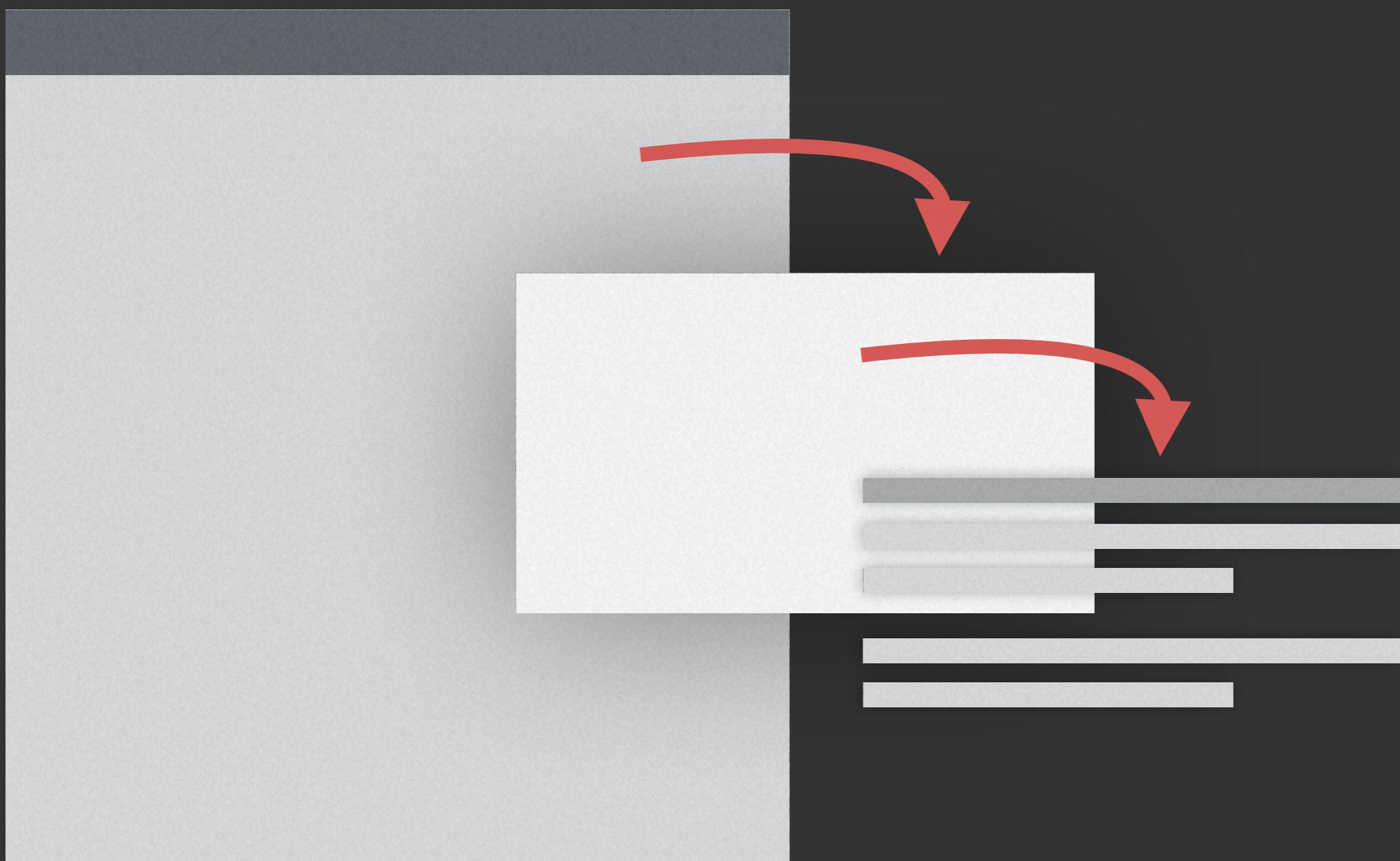
Props???











```
// App.js  
...  
  
<div className="col-md-3">  
  <Todo buttonColor="red"/>  
</div>  
<div className="col-md-6">  
  <Todo buttonColor="green"/>  
</div>  
<div className="col-md-3">  
  <Todo buttonColor="blue"/>  
</div>
```

...

```
// App.js  
...  
  
<div className="col-md-3">  
  <Todo buttonColor="red" />  
</div>  
  
<div className="col-md-6">  
  <Todo buttonColor="green" />  
</div>  
  
<div className="col-md-3">  
  <Todo buttonColor="blue" />  
</div>
```

...

```
// Todo.js
...
import React, { Component, PropTypes } from 'react';
export class Todo extends Component {
  static propTypes = {
    buttonColor: PropTypes.string.isRequired,
  }
  state = {
    ...
  }
}
```

```
// Todo.js
...
import React, { Component, PropTypes } from 'react';
export class Todo extends Component {
  static propTypes = {
    buttonColor: PropTypes.string.isRequired,
  }
  state = {
    ...
  }
}
```

```
// Todo.js
...
<div className="form-box">
  <input className="input-todo"
    type="text"
    onChange={this.handleChangeText}
    value={this.state.inputText}
    placeholder="what do you want to do?"
    onKeyPress={this.handleKeyPress}/>
  <button className="bb-input button"
    onClick={this.submitList}
    style={{background: this.props.buttonColor}}>Add
  </button>
</div>
...
```

To-do-list

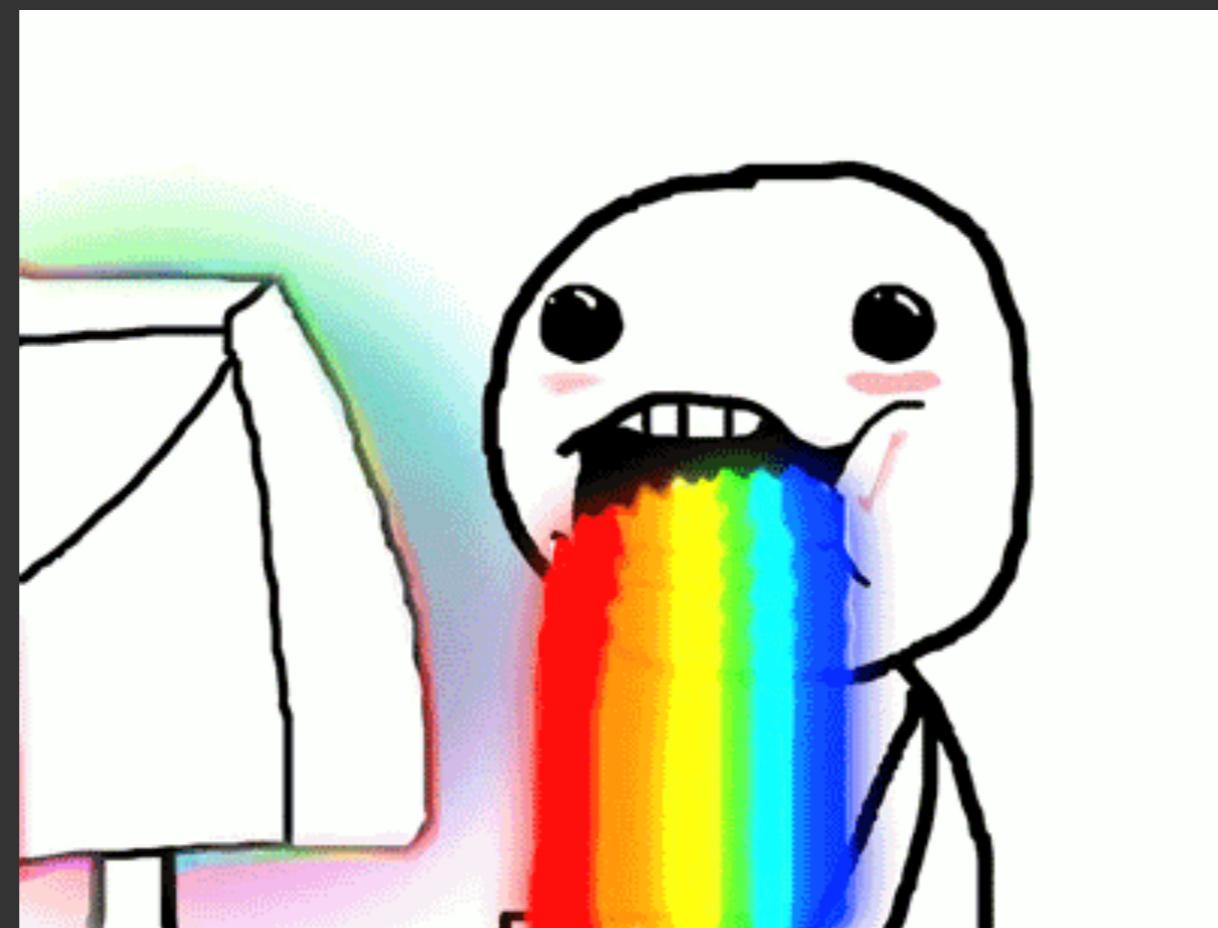
what do you want to do?

To-do-list

what do you want to do?

To-do-list

what do you want to do?



```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.html
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>React App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.html
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>React App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

Building for Production



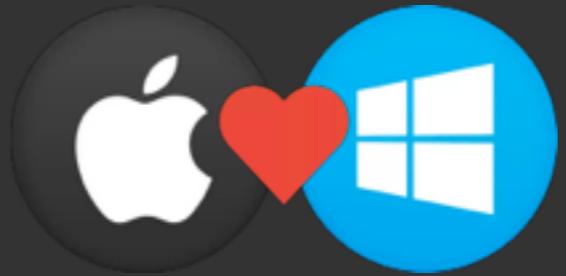
// Stop service

\$ CMD + C

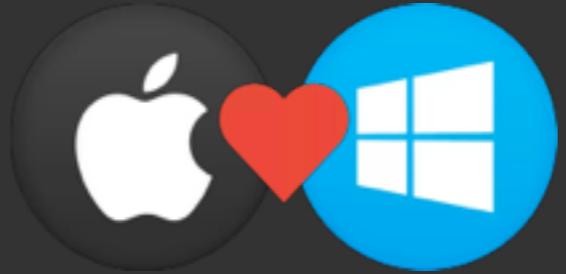


// Stop service

> CTR + C



```
// Building for Production  
$ npm run build
```

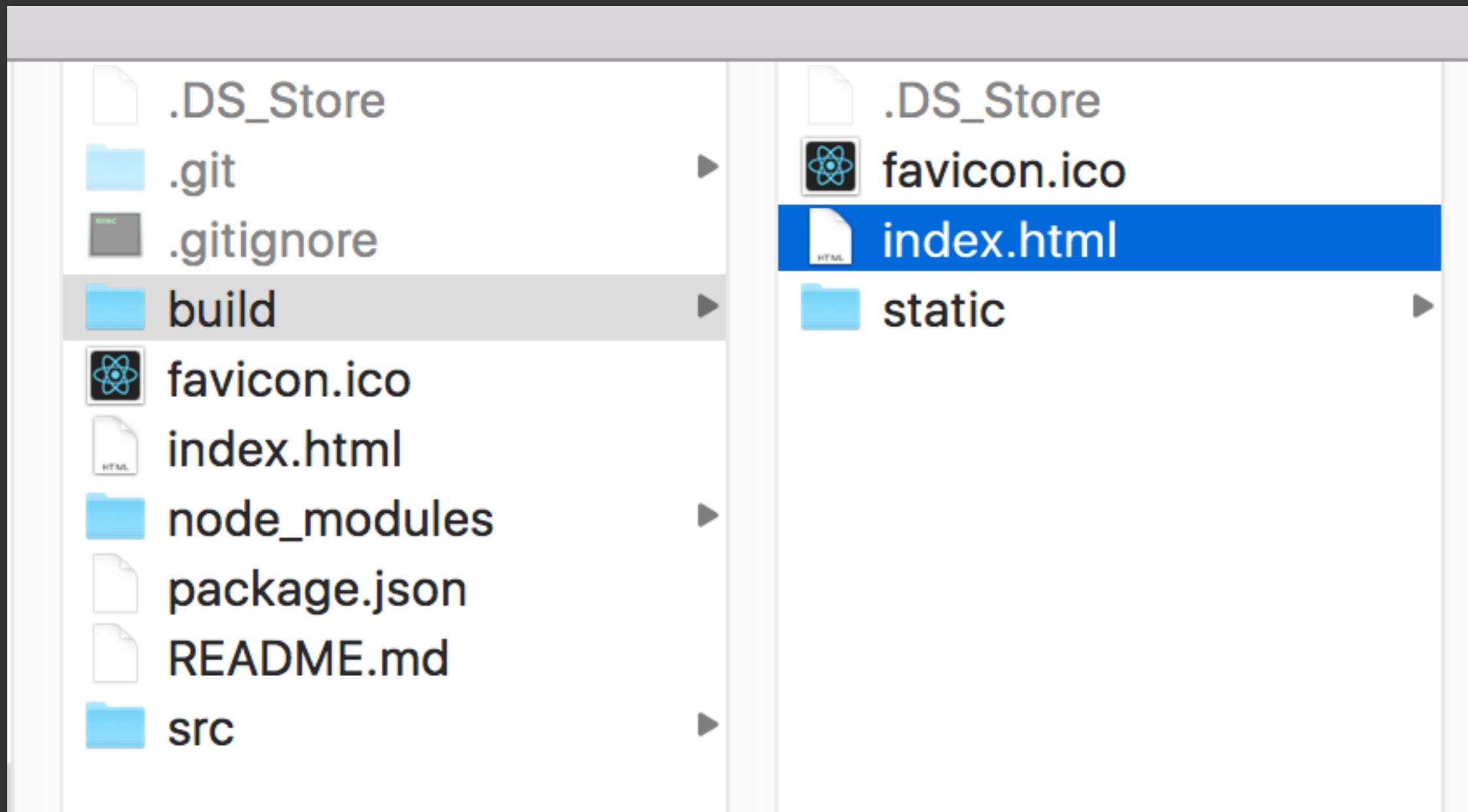
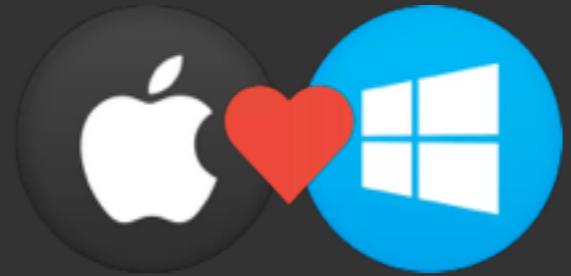


```
// Building for Production  
$ npm run build
```

```
Creating an optimized production build...  
Compiled successfully.
```

File sizes after gzip:

```
47.55 KB  build/static/js/main.a636a154.js  
19.26 KB  build/static/css/main.b87aebdd.css
```



One more thing



REACT ROUTER



```
// React-router  
https://github.com/reactjs/react-router
```

REACT ROUTER



```
// React-router
$ npm install react-router --save
```

REACT ROUTER

```
// index.js  
...  
  
ReactDOM.render(  
  <App />,  
  document.getElementById('root')  
)  
...
```

```
// index.js

...
import { Router, Route, browserHistory } from 'react-router'
import Page1 from './Page/Page1';
import Page2 from './Page/Page2';
import Page3 from './Page/Page3';

ReactDOM.render(
  <Router history={browserHistory}>
    <Route path="/" component={App}>
      <Route path="page1" component={Page1}/>
      <Route path="page2" component={Page2}/>
      <Route path="page3" component={Page3}/>
      <Route path="*" component={Page1}/>
    </Route>
  </Router>,
  document.getElementById('root')
);
...
```

```
// index.js

...
import { Router, Route, browserHistory } from 'react-router'
import Page1 from './Page/Page1';
import Page2 f
import Page3 f

ReactDOM.render(
  <Router hist
    <Route pat
      <Route p
      <Route p
      <Route p
      <Route p
      <Route p
    </Route>
  </Router>,
  document.get
);
```

```
// Page/Page1.js
export default class Page1 extends
Component {
  render() {
    return (
      <div>
        <h1>Page1</h1>
      </div>
    );
  }
}
```



...

```
// App.js
import { Link } from 'react-router'
...
...
<div className="card clearfix">
  <Link to="/page1">
    <div className="tab-page">Page 1</div>
  </Link>
  <Link to="/page2">
    <div className="second tab-page">Page 2</div>
  </Link>
  <Link to="/page3">
    <div className="tab-page">Page 3</div>
  </Link>
</div>
<Todo button="green" />
...
...

```

```
// App.js
import { Link } from 'react-router'
...
...
<div className="card clearfix">
  <Link to="/page1">
    <div className="tab-page">Page 1</div>
  </Link>
  <Link to="/page2">
    <div className="second tab-page">Page 2</div>
  </Link>
  <Link to="/page3">
    <div className="tab-page">Page 3</div>
  </Link>
</div>
<Todo button="green" />
...
...

```

```
// App.js
import { Link } from 'react-router'
...
...
<div className="card clearfix">
  <Route path="/" component={App}>
    <Route path="page1" component={Page1}/>
    <Route path="page2" component={Page2}/>
    <Route path="page3" component={Page3}/>
    <Route path="*" component={Page1}/>
  </Route>
  ...
<Todo button="green" />
...
...
```

Page 1

Page 2

Page 3

To-do-list

what do you want to do?

Add

Page1

Page 1

Page 2

Page 3

To-do-list

what do you want to do?

Add

Page2

Page 1

Page 2

Page 3

To do list

← → ⏪

ⓘ localhost:3000/page2

Page2

One more thing

Two more thing

Redux

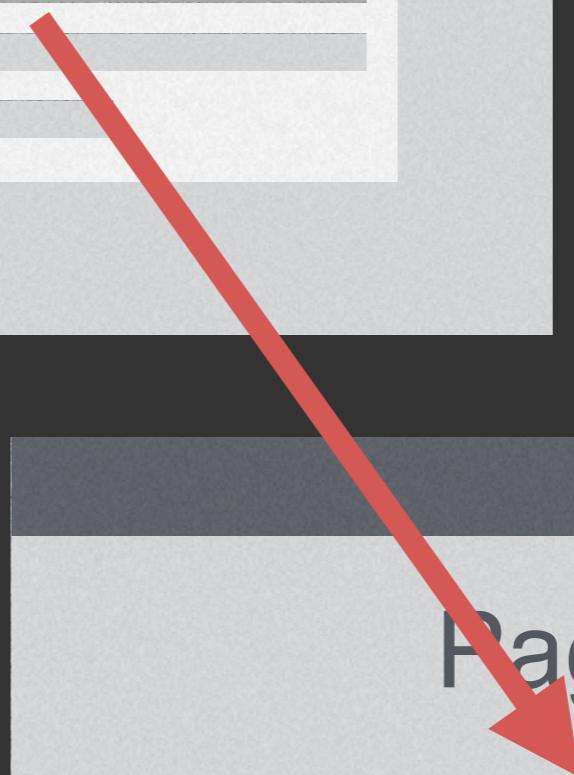
Page 1



Page 3



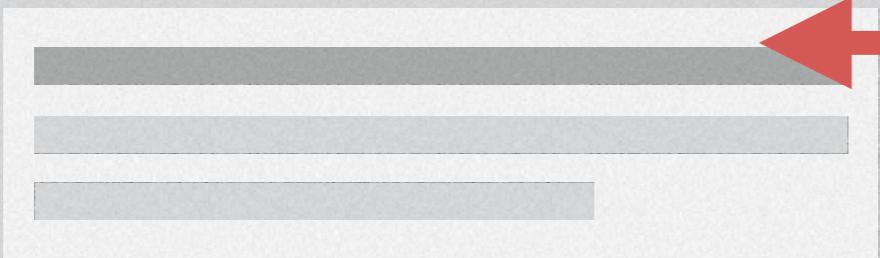
Page 2



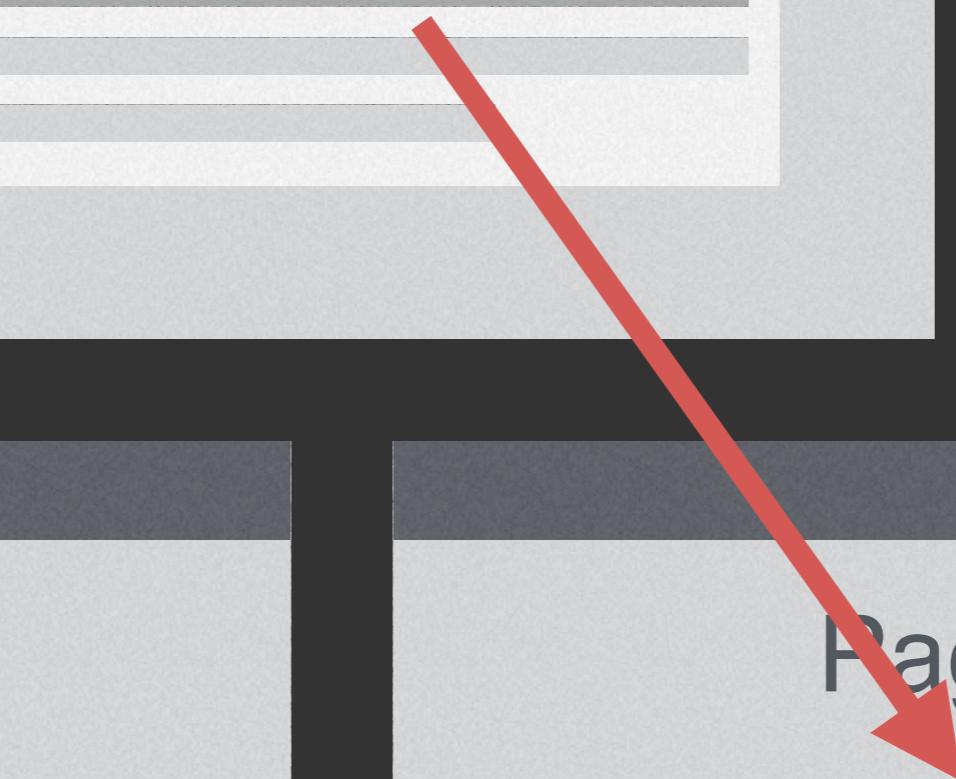
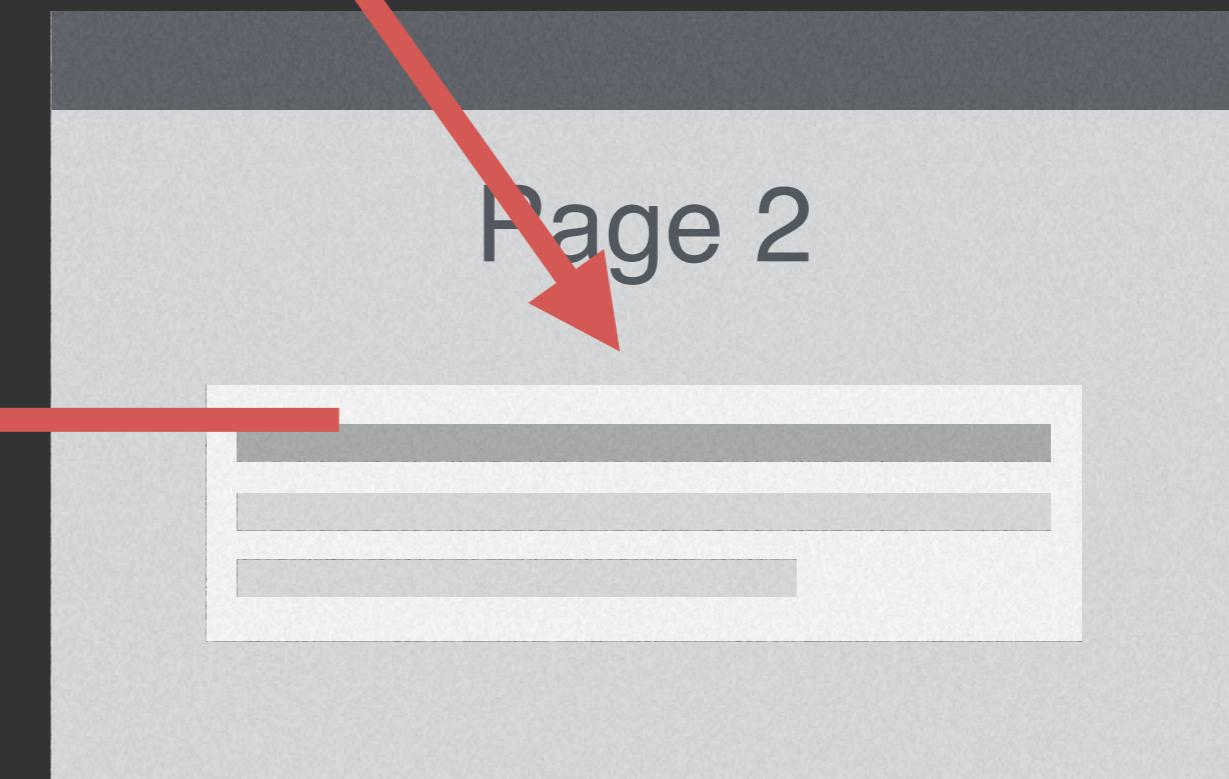
Page 1



Page 3



Page 2



Page 1



Page 3

Page 2

Page 1



Page 3

Page 2

Page 1

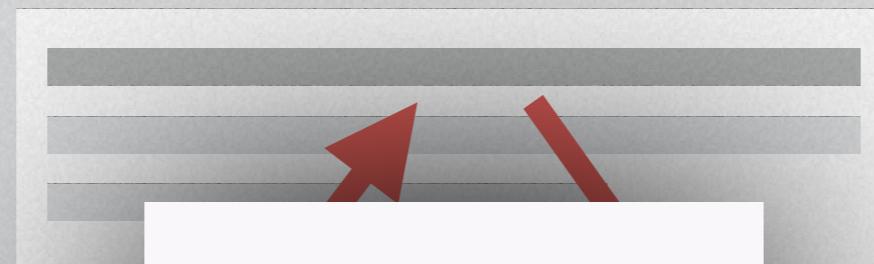


Redux

Page 3

Page 2

Page 1



```
// Redux example to-do-list  
http://redux.js.org/docs/basics/ExampleTodoList.html
```

Page 3

Redux

Page 2





Redux

...

Time Travel Through
Predictable Application States



ReactJS Bangkok 1.0.0

Arnupharp Viratanapanu & Supasate Choochaisri

One more thing

Two more thing

Three more thing



Universal ReactJS

ReactJS Bangkok 1.0.0

27 August 2016



Suranart Niamcome
Founder @ SiamHTML



Tanapol Nearunchorn
Senior Developer @ Wongnai



Isomorphic



Universal ReactJS

ReactJS Bangkok 1.0.0

27 August 2016



Suranart Niamcome
Founder @ SiamHTML



Tanapol Nearunchorn
Senior Developer @ Wongnai

```
// Github intro-react-bkk  
https://github.com/buffaly/intro-react-bkk-1.0.0
```

Thank you

