

INTRODUCTION TO REACT

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Create React Application with the CLI

- Use ***npx*** to create a react application from using the ***create-react-app*** CLI (command line interface)

```
$ npx create-react-app my-wonderful-react-app
```

- Start the application

```
$ cd my-wonderful-react-app
```

```
$ npm start
```

- Note, use application name as discussed in class or homework

Create an application from scratch

- Open the app with an IDE, and do all your work in src directory
- Edit `src/index.js`, and replace the first argument in ***render()***

```
import React from 'react';
import ReactDOM from 'react-dom';
ReactDOM.render(
  <h1>Hello, world!</h1>,
  document.getElementById('root')
);
```

REACT HELLO WORLD

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Create a hello world component

- Create reusable, self-contained components in hello.js

```
import React from 'react';  
class HelloWorld extends React.Component {  
  render() {  
    return(<h1>Hello, world!</h1>);  
  }  
}  
export default HelloWorld
```

Functions are preferred

- Use functions as well hello.js

```
import React from 'react';  
const HelloWorld = () => {  
  return(<h1>Hello, world!</h1>);  
}  
export default HelloWorld
```

Components define new elements

Components can be rendered as new HTML elements

```
import HelloWorld from 'hello';  
ReactDOM.render(  
  <HelloWorld/>,  
  document.getElementById('root')  
);
```

COMPONENT FILES

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Declare components in their own file

This allows importing components from other file

```
import React from 'react';  
class HelloWorld extends React.Component {  
  render() { return(  
    <h1>Hello, world!</h1>  
  )  
}  
}  
export default HelloWorld;
```

Import components

Import component to use it in other places

```
import React from 'react';  
import ReactDOM from 'react-dom';  
import HelloWorld from 'hello';  
ReactDOM.render(  
  <HelloWorld />,  
  document.getElementById('root')  
);
```

Deploying to Heroku

Initialize a git new repo, add and commit all your new code

```
$ git init  
$ git add .  
$ git commit -m 'created hello world'
```

Create a heroku add, push your content, wait for app to deploy, and open it

```
$ heroku create my-wonderful-react-app  
$ git push heroku master  
$ heroku open
```