

Introduction to React.

Simon Achkar

- MCDA5510 -

Hi, I'm Simon.



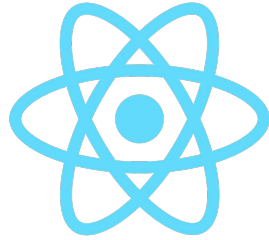
- **Software Developer at REDspace**



- **MCDA Alumni**



- **Freelance UI/UX Designer and Web Developer**



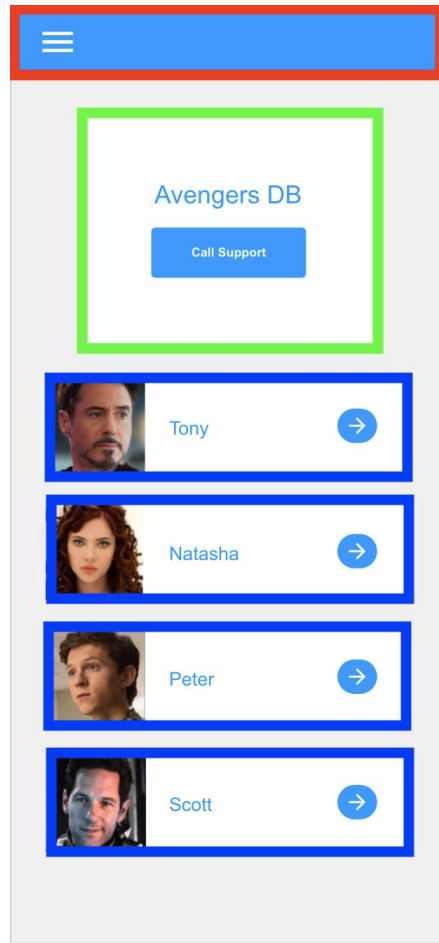
What is React?

React is a JavaScript Library for building user interface

It's Component-Based.

```
class Hero extends React.Component {  
  render() {  
    return(  
      <div>  
        <img src={this.props.imageUrl} className="logo" />  
        <h1>{this.props.name}</h1>  
        <Button link={this.props.btnLink} />  
      </div>  
    )  
  }  
}
```

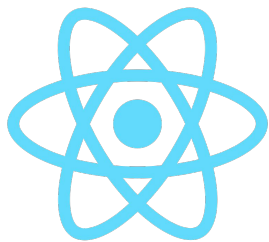
```
<Hero  
  imageUrl="https://img.co/iron-man.png"  
  name="Tony"  
  btnLink="/tony-stark"  
>
```



It's Declarative.

```
// Imperative
function addArtistNameToBody() {
  const bodyTag = document.querySelector('body')
  const divTag = document.createElement('div')
  let h1Tag = document.createElement('h1')
  h1Tag.innerText = "Drake"
  divTag.append(h1Tag)
  bodyTag.append(divTag)
}
```

```
// Declarative
class Artist extends React.Component {
  render() {
    return(
      <div>
        <h1>{this.props.name}</h1>
      </div>
    )
  }
}
```



Let's code!

Creating a hello world app, injecting React to the DOM (the “HTML”)

`</> hello-world.html`

What's JSX?



```
const element = <h1>Hello World</h1>;

ReactDOM.render(
  element,
  document.getElementById( 'root' )
);
```

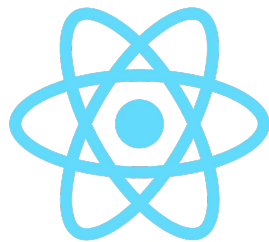
Ways to create a React app.

- **create-react-app**




Gatsby

Other Tools •



create-react-app

Creating a single-page application

 `react-app/`

Ugh... Assignment!

About me My Town



Hi, I'm Simon

I'm a Software Developer based in Halifax, NS currently working with REDspace.

I joined MCDA because I wanted to have a bird sight view of the different aspect to working with data.

About me My Town



I live in Halifax, NS

Halifax is a city situated on the East Coast of Canada in the Maritime province of Nova Scotia.



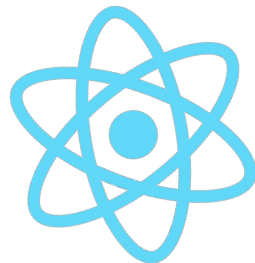
Main Concepts.

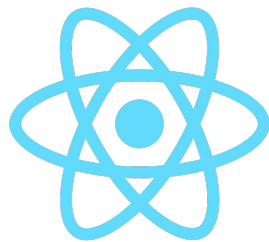
- Class Component + Props
- States + Conditional Rendering
- Rendering Multiple Components

- Functional Components
- Functional vs Class Components
- Fetching Data
- Component Lifecycle

Advanced Topics.


- React Hooks
- Routing

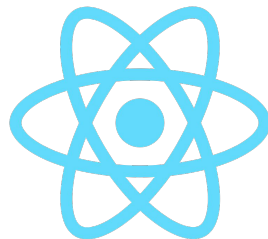




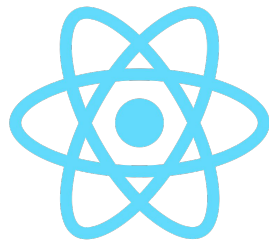
Class Component + Props.

Creating a simple components with some properties


 01-simple-component

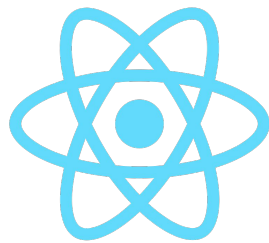


States + Handling Events.

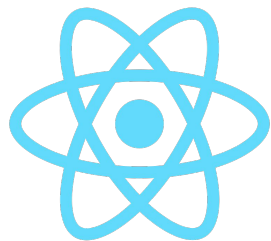


Conditional Rendering.

 03-conditional-rendering



Rendering Multiple Components.



Functional Components.



05-functional-component

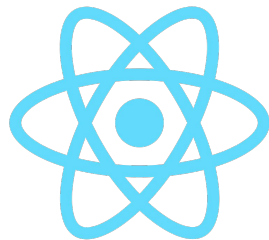
Functional components **vs** Class Components



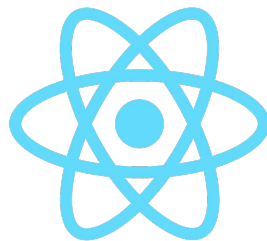
```
const Hello = (props) => (  
  <div>  
    <h1>Hello, {props.name}</h1>  
  </div>  
)
```




```
class Hello extends React.Component {  
  render() {  
    return (  
      <h1>Hello, {this.props.name} </h1>  
    )  
  }  
}
```

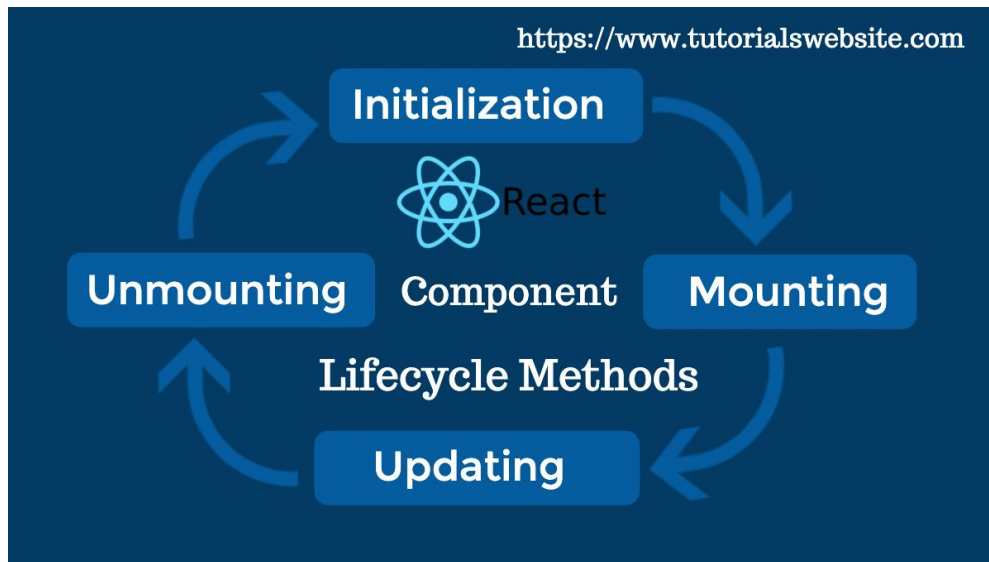


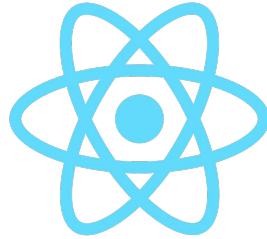
Fetching Data.



 07-component-lifecycle

Component Lifecycle.

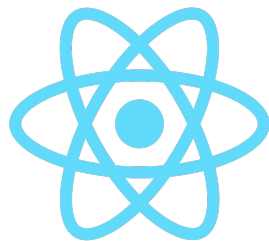




React Hooks.



08-react-hooks



Routing.

Routing is the process of selecting a path.

Routing in React is switching between pages.

Thank you!



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- github.com/simonachkar/react-mcda5510



- Assignment (in the repo)