# (React) React.JS Essential Training

## Introduction

* React is JavaScript
* ES6 Syntax
* Install npm

## What is React?

1. React Doc
2. Install react developer tools – search chrome web store react developer tools in Google

* Open react developer tools – PC – ctrl + shift + J

## Intro to React Elements (npm, ReactDOM.render)

1. Installing create react app

* Install node.JS and npm

1. Generating a project

* Type cd react-laser-mate > npm start to go to the development server
* React.new to browser > go to browser text editor and the deployment interface

1. Creating react elements

* ReactDOM.render(first element = what you want to create/ see, second element = what page/ where to put the content). First element = (x, property, text). Second element = (div defined in public > index.html file)
* See html via react chrome extensive (ctrl + shift + J)

1. Refactoring elements using JSX

* Babel is a platform that converts HTML to JSX

## React Components

1. Creating a React Component

* Link url (index.js) to content (app.js)
* Index.js has reactDOM.render(<App />, document.getElementByID(‘root’));
* App.js has function Header() and (<div className=”App”> <Header /> <Main /> </div>)

1. Adding component properties

* Pass text from one function to another
* Have individual component

1. Working with lists

* Passes list of texts from one function to another

1. Adding keys to list items

* Dynamically add keys (1,2,3,4) to list items using dishObjects const

1. Displaying images with React

* If can’t drag and drop images, drag and drop the image to the computer files instead of the VS code.

1. Ysubg Fragments

* <div> </div> not using it will cause error

## React State in Component Tree

Conditional Rendering

* If statement

Deconstructing arrays and objects

* Select and name a particular element in a list
* Advanced if statement

Understanding the useState Hook

* Set new value when a button a clicked to change some text
* useState sets initial state/ word

Working with useEffect

* useEffect shows current state/word

Incorporating useReducer

* for checkbox, verify if it is clicked or not

## Asynchronous React (doing)

# Optional (React) Building an Interface

# (Real-App) Build Two Pages of the Customer App using Fire-Blade

# (React & Django & Testing) Building React and Django Apps

# Optional (PostgreSQL) - Building a Personal Portfolio with Django

* PostgreSQL + Django
* Build some database transfer

# Optional (Responsive Design)

* See if the above tutorials cover it or need to find it myself

# Optional (Testing) – Test Django

* Build some test – Django