<aside class="notes">  
 Shhh, these are your private notes 📝  
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**Hello!**

My name is Valentin Anikin and I am going to discuss with you some basic information about React. I hope it will help beginners to basically understand purposes for which this technology was created and how you can use it.

**What is React.**

* As the official website says this is a JavaScript library for building user interfaces.
* It is one of the most popular JavaScript libraries.
* It is positioned as a library, but not a framework.
* It was created by Facebook, and it is one of the advantages of this technologies, as you know, that it will be supported and updated in future.
* It is based on Model View Controller or MVC.

MVC generally imply that data should be delivered to users in the form suitable for users, but it should be stored and processed in the way suitable for business. So while developing an application we should separately organize business layer of an application which will process and store data and user interface which will display data for users. And we can effectively create such an application using React.

* React uses Virtual DOM concept which allows to effectively render single page application that is application having one html document and a script with logic of how to change it.

**How to install React**

The simplest way is to use the command Create React App.

You need the Node installed on your local computer. You can follow the ling I put into this slide to install it.

After you installed Node JS, you should open your terminal and there you should open the folder when you want to create your new application.

In this folder you should run one of the following commands in your terminal: NPX, NPM or yarn. NPX and NPM must be already installed on your computer along with Node, YARN you should download separately.

Once you have run one of these commands, you will see the new folder downloaded with name as you call it in the command you have run before. This is your React project.

This folder will have the structure as you can see here. In folder public you will see the index.html file which will be the main html file of your project. Other files of our project will be stored in SRC folder.

In this folder you can run one of the following commands to look at your application in browser.

And you fill see the application template and instruction how to proceed.

**Introducing JSX**

When you open App.js you will see a new syntax, which is called JSX.

From one point of view it looks like a standard JavaScript function: we see the key word function, name of the function, some module structure (there are import and export here).

But this function returns something strange. It looks like HTML but not an HTML.

So what is JSX. It is not required to use it, but it is really helpful while using react.

**Component**

To understand the component concept, we will change our app.js file as follows. Instead of the tag “header” we will create some new tag “Header” starting with a capital letter and will import function Header from the file with name Header from the current directory.

Also we will create Header.js file in the SRC directory, and we will copy the header tag with it’s previous content.

**Props**

Is one single argument containing all the data passed from one React component to another.

We can pass data to another react component by adding a new attribute when we call component in our conde, so the name of the attribute will be the name of property inside props, and data included into braces will be the value of the property inside props.

We can call data inside the React component by calling props, dot and name of the attribute we passed when calling React component.

**Styles**

Inline styling. You can create object and pass to it CSS properties. And you can add attribute style to the tag and put the name of the object with CSS properties into braces.

CSS module. It is commonly accepted that CSS file which is CSS module we name with the key word module.

**The END**

This is all the information I wanted to share with you. You can learn more about REACT on the official REACT webpage. I linked a presentation to this video with all links you can follow. Enjoy.