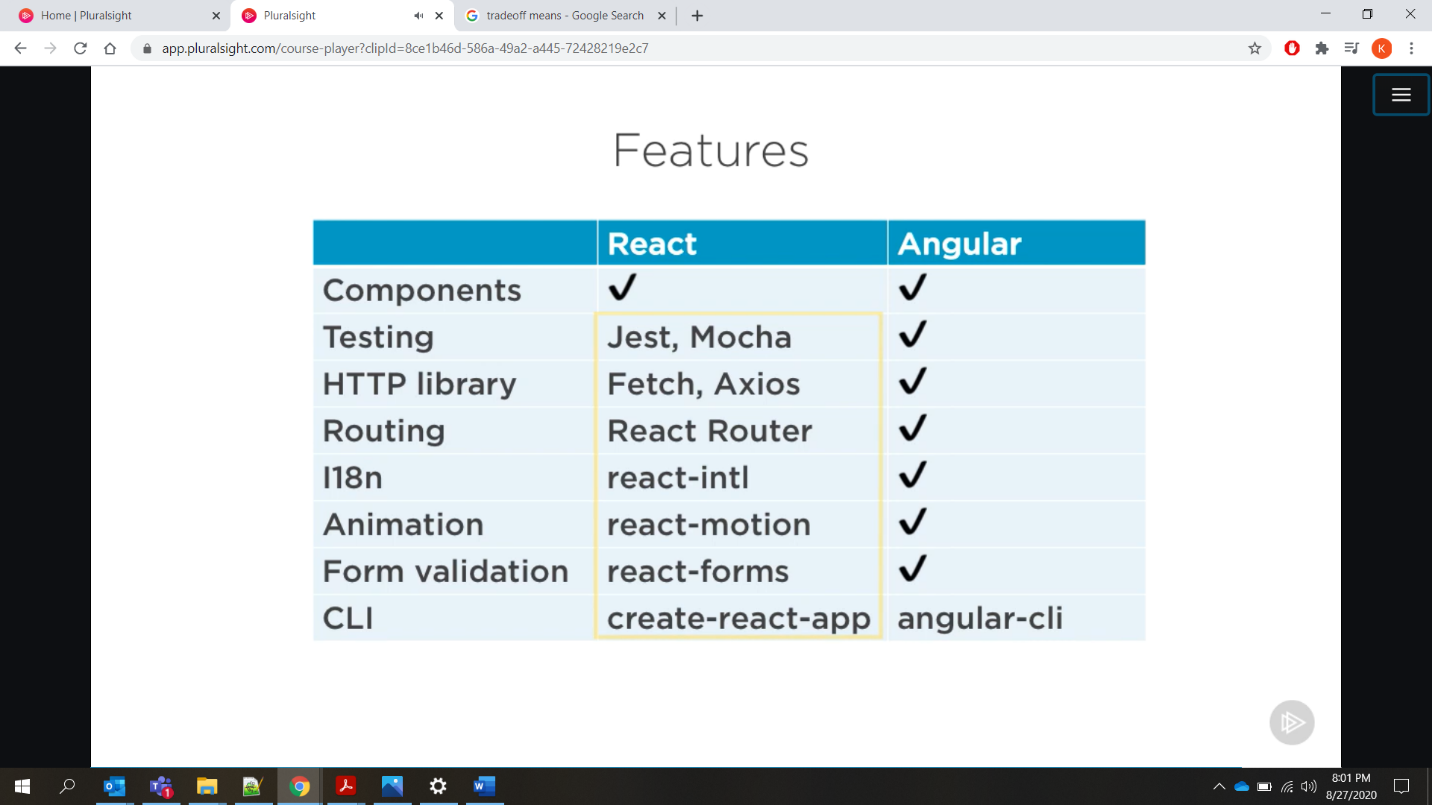
* Websites : github.com/enaqx/awesome-react
* React

**Features of react:**

* It is a library not framework.
* Virtual DOM: update the DOM in most efficient way, which avoids layout thrash(restricting the layout) and in mobile devices saves battery and cpu.
* By default it follows one-way binding
* Angular is template-centric whereas react is JavaScript-centric
* It has mvc in a single component and each component can be independent of each other. Form, accordion, button can be different components.



**Why not web compoents**

* Spotty browser support- need polyfills to work in many browsers
* JS libraries keeps innovating
* Only run in the browser, not on mobiles

**Why React?**<https://jscomplete.com/why-react>

**React components:**

* + Function component
  + Class component

**Virtual DOM:**  
[https://reactjs.org/docs/virtual-dom](https://reactjs.org/docs/faq-internals.html%23:~:text=The%20virtual%20DOM%20(VDOM)%20is,This%20process%20is%20called%20reconciliation.&text=They%20may%20also%20be%20considered,virtual%20DOM%E2%80%9D%20implementation%20in%20React.)

**Event in react take function reference not function invocation**

**Tree Reconciliation:**

React provides a declarative API so that you don’t have to worry about exactly what changes on every update. Reconciliation is the process through which React updates the DOM. When a component’s state changes, React has to calculate if it is necessary to update the DOM. It does this by creating a virtual DOM and comparing it with the current DOM. In this context, the virtual DOM will contain the new state of the component.

* <https://reactjs.org/docs/reconciliation.html>
* <https://css-tricks.com/how-react-reconciliation-works/>

**To mount and unmount the react container just change the key.**

**CustomHooks**

* Use “use” before naming a custom hook.

**CustomHook Rules:**

* Don’t call hooks inside loops or conditions

**JSX:**

<https://reactjs.org/docs/introducing-jsx.html>

**Setup react environment manually:**

<https://jscomplete.com/learn/1rd-reactful>

Github repo: <https://github.com/jscomplete/rgs-template>

**For Sameer buna jscomplete server side rendering react template:**

npx reactful my-app

**React based games for practice:**

<https://jscomplete.com/react-beyond-basics>

**Service worker:**

[**https://medium.com/@addyosmani/progressive-web-apps-with-react-js-part-3-offline-support-and-network-resilience-c84db889162c#:~:text=A%20service%20worker%20is%20a,entire)%20React%20apps%20work%20offline.**](https://medium.com/@addyosmani/progressive-web-apps-with-react-js-part-3-offline-support-and-network-resilience-c84db889162c%23:~:text=A%20service%20worker%20is%20a,entire)%20React%20apps%20work%20offline.)

**Extra:**

<https://graphql.org/>