Handwritten Notes



"Everything om React ois a Component" REACT COMPONENTS



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COMPONENT

Everything eis a component ein React'.

React Components

-D2 types: - a xel alrownos Jodos of

behind the

a) Functional component - NEW WAY

b) Class Based component -OLD WAY

- Functional component

o is nothing but a journsmipt function.

is a normal Js for which returns

some piece of react elements (JSX).

-: p3 const Header Component = () => } nst Header Helloworld < h17; return < h17 Helloworld < h17;

· For any component,

Norme starts with capital letter. Of is not mandatory, but it's a convention

to render functional component, unite: < Header Component 17 Functional Component React element const heading = () => { const heading = (retum (<h1 id = "title"</pre> <h1 id = "title" Key="h1"> Key = "h1" > Helloworld Hello world </h < | h17) is and Functional component is finally a function. React element is finally an object The Next Amorging thing I * Const Title = () => { is a <h1>Hello world </h1> [functional component

* const fleader Component = () = 7 } This is <h27 Normante React </h2>
This is <h27 Normante React </h2> composition' < h27 Hai all </h27 Shit it = "title Still 2/div> Key; Ch2 > Hellowollis. This is a normal journs cript function! 2) const title = () is a normal <h1> Helloworld </h1> variable * const Header Component = () => { return (Ediv7 3 = () = still +2000 Etitle 3 Lha7 Normaste React </h2> <ha> Hai all </h>> 7; /; < ldiv7

```
NB:
```

*Whenever you write JSX, you can write any piece of javasoript code between parantheris {}. It will work.

* JSX is very secure.

JSX makes sure your app is safe.

It does samitization.

const data = api. get Data ();

const Header Component = ()=7 {

return (

Ville amything inside { },

Vdiv7

JSX will samitize the code.

{ data }

< har Hello World < /hz>

</dr>

//

Component Composition

If I have to use a component inside a component. Then, it is called component composition / Composing components.

CLASS BASED COMPONENTS

-> It was less maintainable, have more code and a little messy.

They are no longer used.

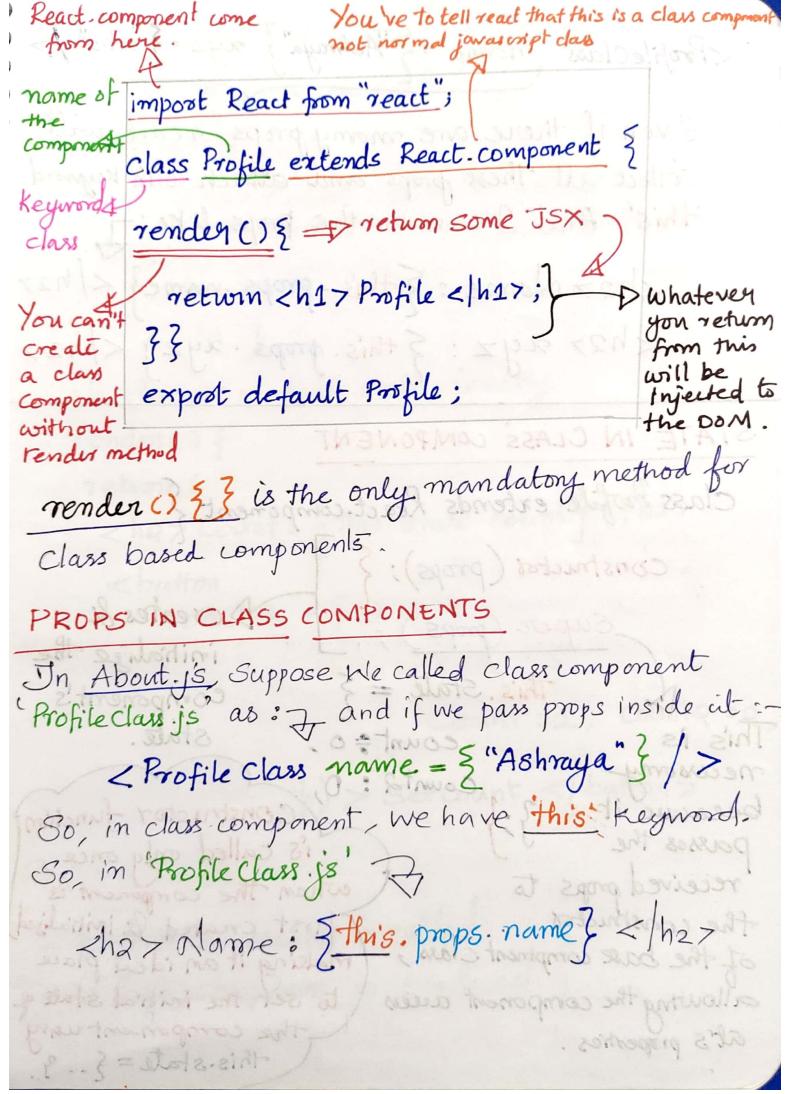
Developers com do almost everything using functional components now.

- D Functional component, at the eod is just

normal j's functions. Similary I,

D Class based components are just normal j's

- La mona taris, houses (100 700-0	13 Burmand bbA-1
CLASS BASED COMPONENT	FUNCTIONAL COMPONENT
import React from "react";	const Profile = () => {
class Profile extends React.components	return (
render() {	<h1> Profile <h1< td=""></h1<></h1>
neturn < h17 Profile < h17	(use Child winter)
If I sente pougnes is 5	S) Make a Enry P
export défault Profile;	expost défault Profile;
Proble Class is	Profile Func, is



< Profile Class norme = { "Ashraya" & xyz = { "abc" }/> Even if there are many props, react will Collect all these props and attach with keyword this'. And I can use the props like: I <h27 Nome: 3 this props name; 2/h27</p> <h2> xyz : 3 this. props - xyz) </h2> STATE IN CLASS COMPONENT Class Profile extends React-component? constructor (props); } D creates & Super (props); initialize the this. State = } components state. count ; o, This is necessory count 2:0, constructor functions passes the 3:1 constructor functions is called only once, when the component is received props to the constructor first created & initialized of the base component class, making it an ideal place allowing the component access to set the initial state of the component unvy cit's properties. this state = g. g.