

TW-14 TEAM LEAD VERSION



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coffee Break
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

10m

- Personal Questions (Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Ask Questions

15m

1. If you see the following import in a file, what is being used for state management in the component?

```
import React, { useState } from "react";
```

- A. React Hooks
- B. stateful components
- C. math
- D. class components

Answer: A

2. When using the React Developer Tools Chrome extension, what does it mean if the React icon is red?

- A. You are using the development build of React.
- B. You are using the production build of React.
- C. You are using webpack.
- D. You are using Create React App.

Answer: A

3. Which language can you not use with React?

- A. JSX
- B. Swift
- C. Javascript
- D. TypeScript

Answer: B

4. What pattern is being used in this code block?

```
const { tree, lake } = nature;
```

- A. function defaults
- B. array destructuring
- C. PRPL pattern
- D. destructuring assignment

Answer: D

5. This code is part of an app that collects Pokemon. The useState hook below is a piece of state holding onto the names of the Pokemon collected so far. How would you access the collected Pokemon in state?

```
const PokeDex = (props) => {  
  const [pokeDex, setPokeDex] = useState([]);  
  /// ...  
};
```

- A. props.pokeDex
- B. pokeDex
- C. setPokeDex()
- D. this.props.pokeDex

Answer: B

6. In this function, which is the best way to describe the Dish component?

```
function Dish() {  
  return (  
    <>  
      <Ingredient />  
      <Ingredient />  
    </>  
  );  
}
```

- A. child component
- B. parent component
- C. nested component
- D. sibling component

Answer: B

7. What is the first file loaded by the browser in a basic React project?

- A. src/App.js
- B. src/index.js
- C. public/manifest.json
- D. public/index.html

Answer: D

8. Why is it a good idea to pass a function to `useState` instead of providing a direct input?

- A. It provides better encapsulation.
- B. It makes sure that the object is not mutated.
- C. It automatically updates a component.
- D. `useState` is asynchronous and might result in out of sync values.

Answer: D

9. How do you add an id of heading to the following h1 element?

- A. `let dish = <h1 id={heading}>Mac and Cheese</h1>;`
- B. `let dish = <h1 id="heading">Mac and Cheese</h1>;`
- C. `let dish = <h1 id:"heading">Mac and Cheese</h1>;`
- D. `let dish = <h1 class="heading">Mac and Cheese</h1>;`

Answer: B

10. You are rendering a list with React when this warning appears in the console: "Warning: Each child in a list should have a unique 'key' prop." How do you fix this issue?

- A. Pass the name of each item as its key.
- B. Add a key prop with the same value to each item the list.
- C. Clear the console warnings.
- D. When iterating over the list items, add a unique property to each list item.

Answer: D

11. The lifecycle methods are mainly used for?

- A. keeping track of event history
- B. enhancing components
- C. freeing up resources
- D. none of the above

Answer: C

12. What will happen if the following render() method executes?

```
render(){  
  let langs = ["Ruby","ES6","Scala"]  
  return (<div>  
    {langs.map(it => <p>{it}</p>)}  
  </div>)  
}
```

- A. Displays the list of languages in the array
- B. Error. Cannot use direct JavaScript code in JSX
- C. Displays nothing
- D. Error. Should be replaced with a for..loop for correct output

Answer: A

13. Filter Map and Reduce operation is way to:

- A. Un-compress and expand data.
- B. Create new immutable dataset.
- C. Crunch and analyze the data
- D. All of them

Answer: C

14. In React, what is the purpose of the render method in a class component?

- A. It is responsible for defining the initial state.
- B. It updates the component's state.
- C. It returns the JSX to be rendered on the screen.
- D. It is used for making API requests.

Answer: C

15. Consider the following component. What is the default color for the star?

```
const Star = ({ selected = true }) => <Icon color={selected ? 'red' : 'grey'} />;
```

- A. You can not use ternaries in React.
- B. white
- C. red
- D. grey

Answer: C

16. In React, functional components are now recommended over class components, and functional components are simpler and easier to use.

True

False

Answer: True

Interview Questions

15m

1. What is a state in React?

Answer:

The state is a built-in React object that is used to contain data or information about the component. The state in a component can change over time, and whenever it changes, the component re-renders.

The change in state can happen as a response to user action or system-generated events. It determines the behavior of the component and how it will render.

2. What are props in React?

Props are short for Properties. It is a React built-in object that stores the value of attributes of a tag and works similarly to HTML attributes. Props provide a way to pass data from one component to another component.

Props are passed to the component in the same way as arguments are passed in a function.

3. Why you can't update props in React?

Answer:

The React philosophy is that props should be immutable and top-down. This means that a parent can send any prop values to a child, but the child can't modify received props.

4. What are default props?

Answer:

The defaultProps are defined as a property on the component class to set the default props for the class. This is used for undefined props, but not for null props.


For example, let us create color default prop for the button component,

```
class MyButton extends React.Component {  
  // ...  
}  
  
MyButton.defaultProps = {
```

```
    color: "blue",  
  };
```

If props.color is not provided then it will set the default value to 'red'. i.e, Whenever you try to access the color prop it uses default value

```
render() {  
  return <MyButton /> ; // props.color will be set to red  
}
```

 Note: If you provide null value then it remains null value.

5. What is an arrow function and how is it used in React?

Answer:

An arrow function is a short way of writing a function to React.

It is unnecessary to bind 'this' inside the constructor when using an arrow function. This prevents bugs caused by the use of 'this' in React callbacks.

Coding Challenge

15m

- [R-03 Image Gallery](#)



Coffee Break

10m



Video of the Week

10m

- [React State Vs Props](#)

Case study/Project

15m

- [RP-02 NBA Legends](#)

Retro Meeting on a personal and team level

10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Closing

5m

- Next week's plan
 - QA Session
-