REACT HOOKS AND YOU

AGENDA

- **useState**
  - Replaces this.setState
- **Rules**
  - Order Matters
  - Incompatible with Classes
- **useEffect**
  - Replaces componentDidMount, componentDidUpdate, componentWillUnmount

SETTING STATE

Class Component

```
class YourName extends React.Component {
  constructor() {
    super()
    this.state = { name: "" }
    this.handleChange = this.handleChange.bind(this)
  }
  handleChange(evt) {
    this.setState({ name: evt.target.value })
  }
  render() {
    return (
      <div>
        <h1>Name: {this.state.name}</h1>
        <input
          type="text"
          value={this.state.name}
          onChange={this.handleChange}
        />
      </div>
    )
  }
}
```

Hooks Component

```
function YourName() {
  const [name, setName] = useState("")
  const handleChange = evt => {
    setName(evt.target.value)
  }
  return (
    <div>
      <h1>Name: {name}</h1>
      <input
        type="text"
        value={name}
        onChange={handleChange} />
    </div>
  )
}
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Hooks Component

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    <div>
      <h1>Name: {name}</h1>
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        value={name}
        onChange={handleChange} />
    </div>
  )
}
```

1. Initialize State
2. Use State
3. Set State

SETTING STATE

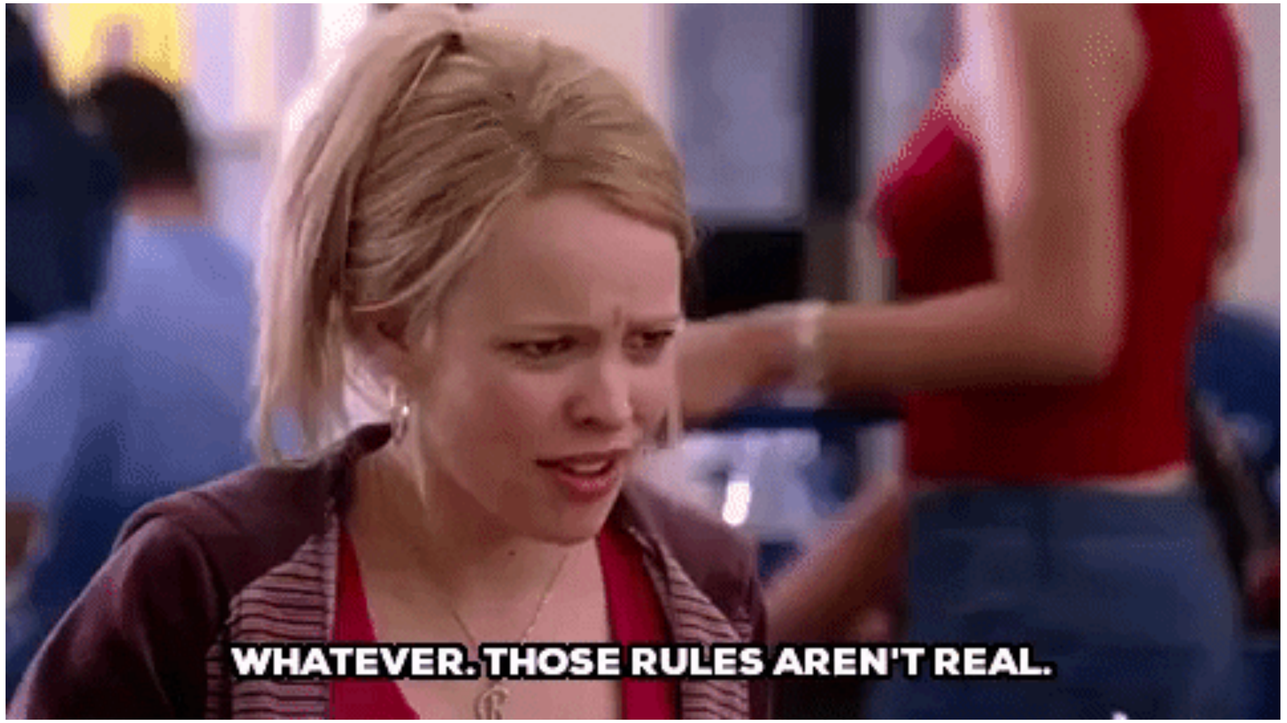
- `import React, { useState } from “react”`
- useState takes initial state as argument
- useState returns an array
  - First element is the current value
  - Second element is a setter function
- No need to bind handleChange!
  - State is available as a variable in the same scope

Hooks Component

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

function YourName() {
  const [name, setName] = useState("")
  const handleChange = evt => {
    setName(evt.target.value)
  }
  return (
    <div>
      <h1>Name: {name}</h1>
      <input
        type=“text"
        value={name}
        onChange={handleChange} />
    </div>
  )
}
```

RULES



RULES: SETTING STATE

1. useState *cannot* be used in a class component!
2. useState must run *on every render*
   - Don’t put it in an if-block!
   - Don’t put it after a conditional return!
3. Get used to array destructuring!

Hooks Component

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

function YourName() {
  const [name, setName] = useState("")
  const handleChange = evt => {
    setName(evt.target.value)
  }
  return (
    <div>
      <h1>Name: {name}</h1>
      <input
        type=“text"
        value={name}
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Clahooks(?) Component

```
class YourName extends React.Component {
  render() {
    const [name, setName] = useState("")
    return (
      <div>
        <h1>Name: {name}</h1>
        <input
          type="text"
          value={name}
          onChange={evt =>
            setName(evt.target.value)
          }
        />
      </div>
    )
  }
}
```

RULES: SETTING STATE

☠️

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Hooks Component

```
function YourName(props) {
  if (props.dontRender) {
    return <div>Not This Time!</div>
  }
  let name = ""
  let setName = () => {}
  if (props.someThing) {
    [name, setName] = useState("")
  }
  const handleChange = evt => {
    setName(evt.target.value)
  }
  return (
    <div>
      <h1>Name: {name}</h1>
      <input
        type=“text"
        value={name}
        onChange={handleChange} />
    </div>
  )
}
```

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Hooks Component

```
function YourName() {
  const nameState = useState("")
  const name = nameState[0]
  const setName = nameState[1]
  const handleChange = evt => {
    setName(evt.target.value)
  }
  return (
    <div>
      <h1>Name: {name}</h1>
      <input
        type="text"
        value={name}
        onChange={handleChange} />
    </div>
  )
}
```

CODE DEMO TIME