**React Component Lifecycle**

Each component has several "lifecycle methods" that you can override to run code at particular times in the process. Methods prefixed with **will** are called right before something happens, and methods prefixed with **did** are called right after something happens.

**Mounting**

These methods are called when an instance of a component is being created and inserted into the DOM:

* [constructor()](https://facebook.github.io/react/docs/react-component.html#constructor)
* [componentWillMount()](https://facebook.github.io/react/docs/react-component.html#componentwillmount)
* [render()](https://facebook.github.io/react/docs/react-component.html#render)
* [componentDidMount()](https://facebook.github.io/react/docs/react-component.html#componentdidmount)

**Updating**

An update can be caused by changes to props or state. These methods are called when a component is being re-rendered:

* [componentWillReceiveProps()](https://facebook.github.io/react/docs/react-component.html#componentwillreceiveprops)
* [shouldComponentUpdate()](https://facebook.github.io/react/docs/react-component.html#shouldcomponentupdate)
* [componentWillUpdate()](https://facebook.github.io/react/docs/react-component.html#componentwillupdate)
* [render()](https://facebook.github.io/react/docs/react-component.html#render)
* [componentDidUpdate()](https://facebook.github.io/react/docs/react-component.html#componentdidupdate)

**Unmounting**

This method is called when a component is being removed from the DOM:

* [componentWillUnmount()](https://facebook.github.io/react/docs/react-component.html#componentwillunmount)

**Other APIs**

Each component also provides some other APIs:

* [setState()](https://facebook.github.io/react/docs/react-component.html#setstate)
* [forceUpdate()](https://facebook.github.io/react/docs/react-component.html#forceupdate)

**Class Properties**[**#**](https://facebook.github.io/react/docs/react-component.html#class-properties)

* [defaultProps](https://facebook.github.io/react/docs/react-component.html#defaultprops)
* [displayName](https://facebook.github.io/react/docs/react-component.html#displayname)

**Instance Properties**

* [props](https://facebook.github.io/react/docs/react-component.html#props)
* [state](https://facebook.github.io/react/docs/react-component.html#state)