

Lifecycle Methods

Mounting

When an instance of a component is being created and inserted into the DOM

Updating

When a component is being re-rendered as a result of changes to either its props or state

Unmounting

When a component is being removed from the DOM

Error Handling

When there is an error during rendering, in a lifecycle method, or in the constructor of any child component

Lifecycle Methods

Mounting

constructor, static getDerivedStateFromProps, render and componentDidMount

Updating

static getDerivedStateFromProps, shouldComponentUpdate, render, getSnapshotBeforeUpdate and componentDidUpdate

Unmounting

componentWillUnmount

Error Handling

static getDerivedStateFromError and componentDidCatch

Mounting Lifecycle Methods

`constructor(props)`

A special function that will get called whenever a new component is created.

Initializing state
Binding the event handlers

Do not cause side effects. Ex: HTTP requests

`super(props)`
Directly overwrite `this.state`

Mounting Lifecycle Methods

`constructor(props)`

When the state of the component depends on changes in props over time.

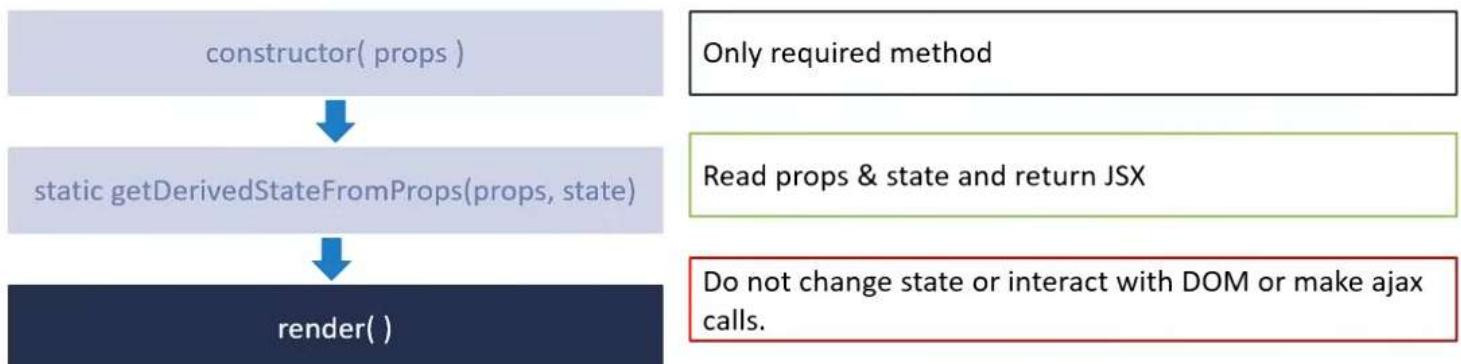


`static getDerivedStateFromProps(props, state)`

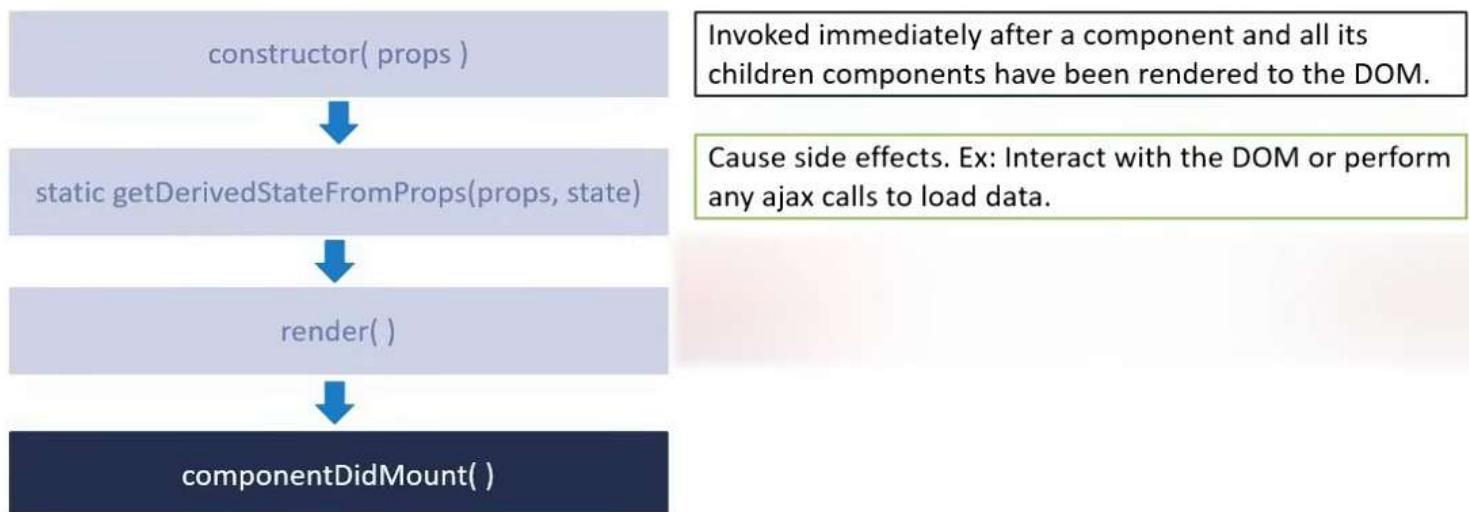
Set the state

Do not cause side effects. Ex: HTTP requests

Mounting Lifecycle Methods



Mounting Lifecycle Methods



Updating Lifecycle Methods

```
static getDerivedStateFromProps( props, state)
```

Method is called every time a component is re-rendered

Set the state

Do not cause side effects. Ex: HTTP requests

Updating Lifecycle Methods

`static getDerivedStateFromProps(props, state)`

Dictates if the component should re-render or not



`shouldComponentUpdate(nextProps, nextState)`

Performance optimization

Do not cause side effects. Ex: HTTP requests

Calling the `setState` method

Updating Lifecycle Methods

```
static getDerivedStateFromProps( props, state)
```

Only required method

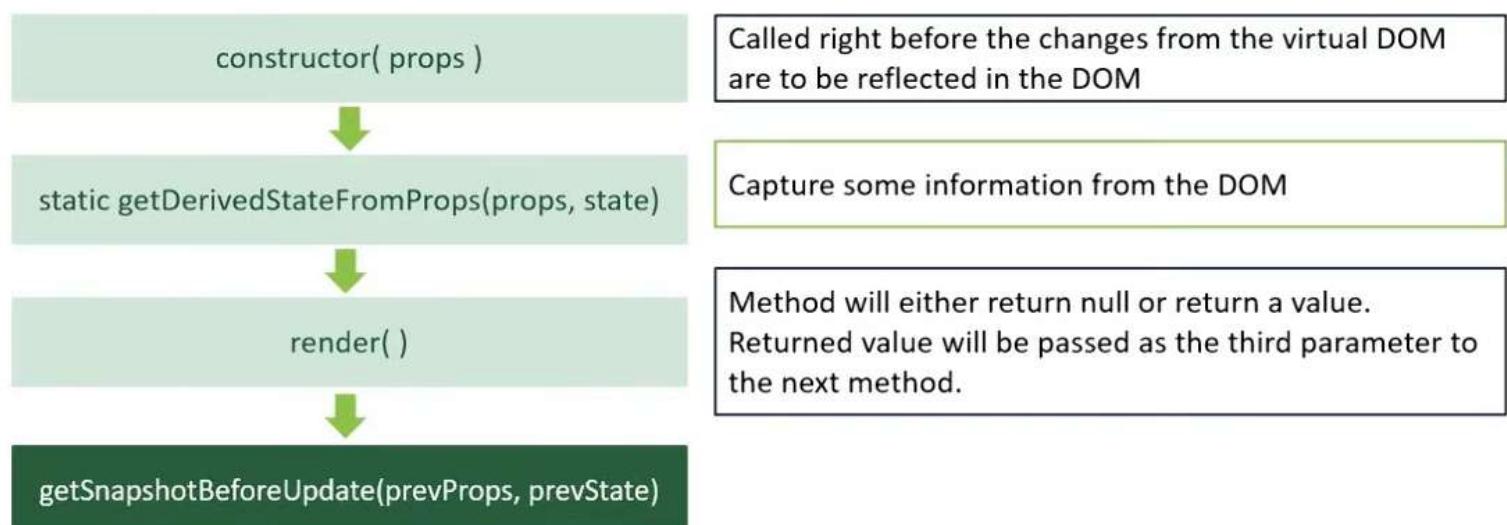
```
shouldComponentUpdate( nextProps, nextState)
```

Read props & state and return JSX

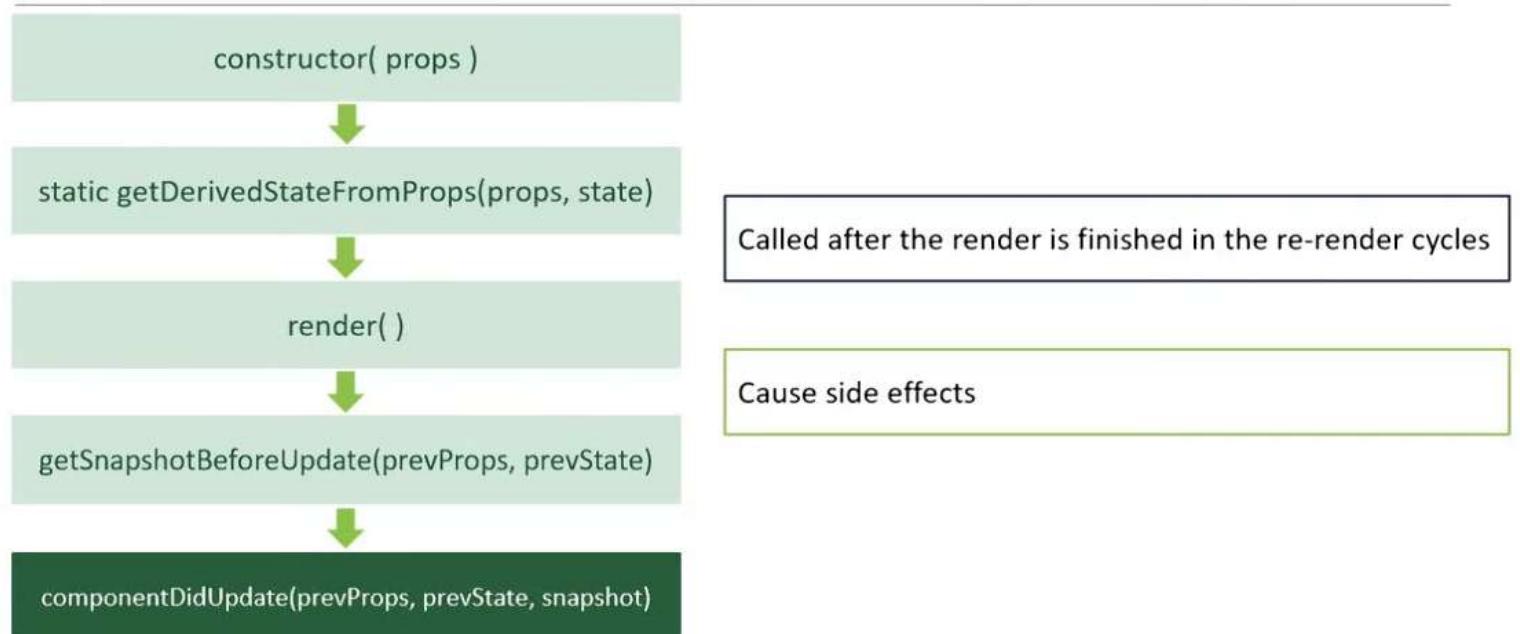
```
render( )
```

Do not change state or interact with DOM or make ajax calls.

Updating Lifecycle Methods



Updating Lifecycle Methods



Unmounting Phase Method

`componentWillUnmount()`

Method is invoked immediately before a component is unmounted and destroyed.

Cancelling any network requests, removing event handlers, cancelling any subscriptions and also invalidating timers.

Do not call the `setState` method.

Error Handling Phase Methods

```
static getDerivedStateFromError(error)
```

```
componentDidCatch(error, info)
```

When there is an error either during rendering, in a lifecycle method, or in the constructor of any child component.