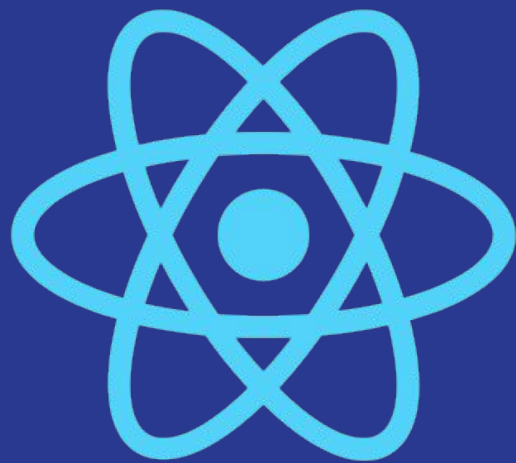



# Training 01

Getting Started



React

# Why we love React

- Functional Programming is Awesome
  - Opinionated, but not Dictatorial
  - JSX lets you mix JavaScript and HTML
  - Reusability
- 

# Course Overview

- **Class 01** - Building a basic React App
- **Class 10** - React-Router, Localization, & Service Calls
- **Class 11** - Testing



# What we'll cover today

- Components: Class Based vs Functional
- State vs Props
- Handling Actions





Let's Code!

# Component Lifecycle



**“Render Phase”**  
Pure and has no side effects.  
May be paused, aborted or  
restarted by React.

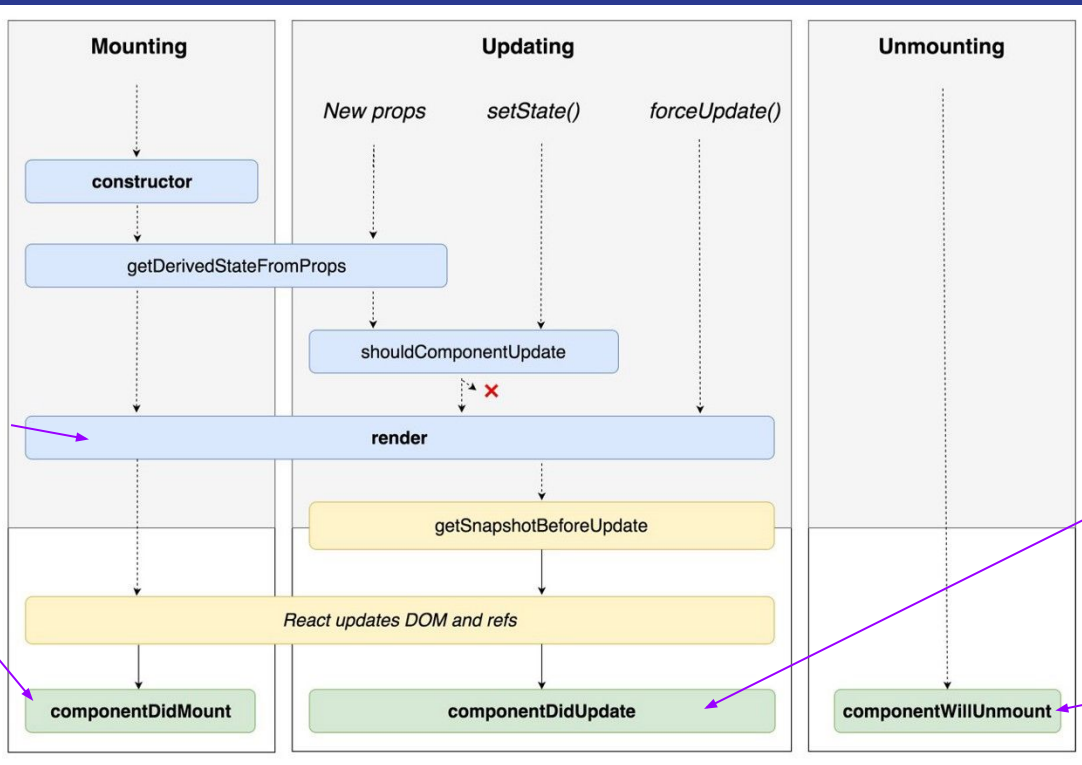
Don't setState here!

**“Pre-Commit Phase”**

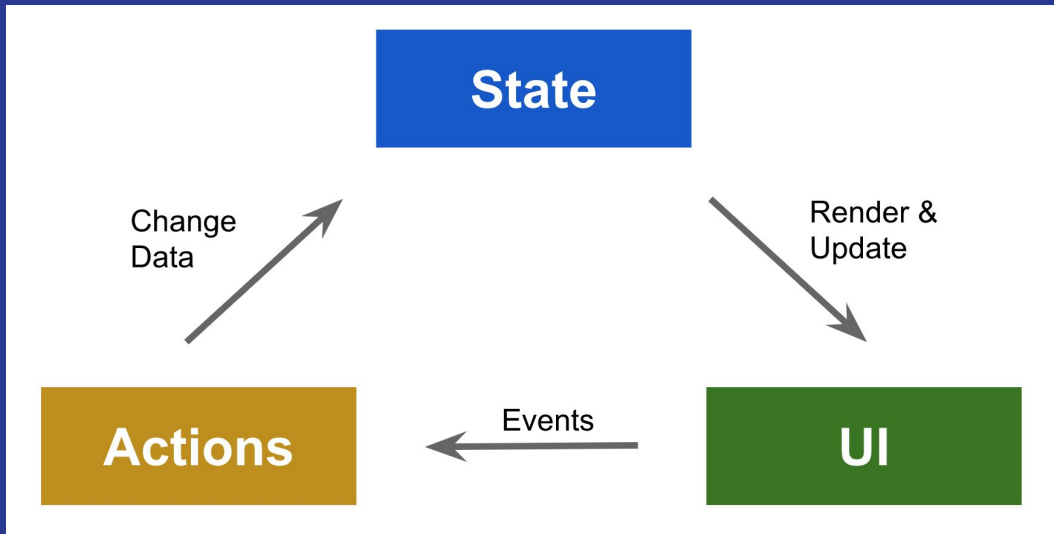
Can read the DOM.  
.....Good place for  
initial API calls

**“Commit Phase”**

Can work with DOM,  
run side effects,  
schedule updates.



# State & Events



## State Management Tips:

- Don't duplicate state!
  - Each piece of state should have only one owner
  - Single source of truth
- State shared by multiple components, need to have a common ancestor!

*"Data Down, Events Up"*

# Review

- What's the difference between state and props?
- What's the difference between a Class Component and a Functional Component?
- Can you name a few lifecycle methods?

