Lifecycle Methods List
Section 5, Lecture 29

Here's a list of some **common** lifecycle methods used in React.

quick definition before we start with the methods:

 side-effect: modifying the state of something else outside of its scope. We'll consider asynchronous calls a side effect, because they will change the state in some way.

The following methods are called when a component is being added to the DOM:

- `constructor() : called before component is mounted. NEVER put side effect code inside of the constructor. Use ComponentDidMount for that instead. Commonly used to initialize state or bind methods.`

- `componentWillMount(): invoked immediately before mounting occurs. Called before render. Once again, DO NOT put any side effect code inside of componentWillMount, and do not make API calls in this method`

- `render(): never fetch data inside of render. Should only be used to return elements.`

- `componentDidMount(): Perfect place to fetch data. It gets called after render. This makes it clear that the initial state is empty at first, until we fetch it and re-trigger render. This forces us to set up our initial state properly, otherwise you're likely to get undefined states.`

The following methods are called when a component is re-rendered to the DOM

- `componentDidUpdate(): called when the state of a component changes. Perfect place to update UI or make network calls based on previous state before update, and current state`