Vue Lifecycle Methods

Lifecycle Methods

- Defined as top-level properties in component instance definitions
- Automatically called at specific points in their lifecycle
- Most commonly used are mounted and updated
 - correspond to React lifecycle methods
 componentDidMount and componentDidUpdate

beforeCreate & Created

- A component instance is consider to be created after its data has been made "reactive"
- At this point it is not yet part of DOM
- Template compilation into a render method occurs between created and beforeMount

beforeMount & mounted ...

- A component instance is mounted when
 it is inserted into the DOM of its parent or
 replaces the element referred to by its el property
- beforeMount can be use used to modify DOM before component instance is rendered for first time
- mounted can be use used to modify DOM after component instance is rendered for first time
 - the most frequently used lifecycle method
 - common place for making REST calls that get data needed by component

... beforeMount & mounted

- mounted can be called before all of its child components have been mounted
- To do something after all child components have been mounted call this.\$nextTick(fn) inside mounted, passing it a function it will call
- Can also be used to execute code after batched DOM updates have completed

beforeUpdate & updated

- A component instance is updated when any of its props or data change
- These methods are sometimes used for debugging purposes
- updated can be used to modify DOM after a prop or data change

beforeDestroy & destroyed

- A component instance is destroyed when it is removed from DOM
- beforeDestroy is sometimes used to unsubscribe from events and data streams

activated & deactivated

- A component can be marked as "keep-alive"
 so its state is maintained after being removed from DOM
- Provides a performance benefit when the same component instance will be rendered again later
 - for example, components rendered in a tab interface
- To make a component "keep-alive", wrap in a <keep-alive> element
- After a keep-alive component is rendered for first time
 - when removed from DOM its deactivated lifecycle method is called
 - when added to DOM again its activated lifecycle method is called

Exercise

- Start dog app server
 - cd to top project directory
 - npm run serve
- Browse localhost:8080
- Add mounted method to Dogs component
- Set dogs array in component data to contain some predefined dogs
 - example: this.dogs = [{name: 'Maisey'}, {name: 'Oscar'}];
 - in real usage this might call a REST service to get dogs
- Verify that predefined dogs appear in UI