Vue Lifecycle Methods

Component Lifecycle

Created

- after its data has been made "reactive"
- not yet part of DOM

Mounted

 inserted into the DOM of its parent or replaces the element referred to by its elementy

Updated

any of its props or data change

Destroyed

removed from DOM

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 elementy
- 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