### **React Animations**

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### **React Animations**

- Animations in React can be supported through several React animation libraries
- Two that we will explore in this course:
  - React-transition-group
  - React-animation-components

## **React Transition Group**

- A set of components for managing component states (including mounting and unmounting) over time, specifically designed with animation in mind
- Components supported:
  - Transition
  - CSSTransition
  - TransitionGroup

#### **Transition**

- Lets you describe a transition from one component state to another over time
  - entering, entered, exiting, exited
- Used to animate the mounting and unmounting of a component
- The in prop is used to toggle the transition state
  - When true the component begins the sequence of entering ->
    entered state
  - Timeout specifies the duration spent in the entering state

#### **CSSTransition**

- CSSTransition applies a pair of class names during the appear, enter and exit stages of the transition
- Uses the in prop to decide when to apply the transition classes
- Example:

```
<CSSTransition key={this.props.location.key} classNames="page"
timeout={300}>
```

 Should define .page-enter, .page-enter-active, .page-exit, .page-exitactive CSS classes

### TransitionGroup

- Manages a set of <Transition> components in a list
- Automatically toggles the in prop for the components

# **React Animation Components**

- A set of react components implemented using reacttransition-group
  - Provides drop in GPU accelerated animations and wrappers for group effects
- Animation components
  - Fade, Transform, FadeTransform
- Wrapper components
  - Stagger, Random, Loop