



NgRx

Reactive State for Angular

<https://ngrx.io/>



Key Concepts

- **Actions**
 - Events sent from components and services
- **State changes**
 - Uses reducers that calculates a new state
- **Selectors**
 - Functions used to get and compose state
- **State**
 - Is accessed with the Store, an observable.



State management

- NgRx Store
 - Manage global state of an application
- NgRx ComponentStore
 - Manage state for temporary state or components state



Installation

- Run the command `npm install @ngrx/store --save`



Actions

- The main building block in NgRx
- Listens to events happening throughout the app
 - User interaction
 - Network request
 - Interaction with device api's



Reducers

- Responsible for dealing with transitions
 - From one state to another state
- Uses Actions based on the action type
- Runs synchronously
- Looks at the current state, determines if a change has occurred.
 - Returns the newly modified state or the original state



Selectors

- Used for fetching pieces of the store state.