



# NgRx

Reactive State for Angular

<https://ngrx.io/>

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# 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.