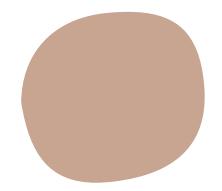


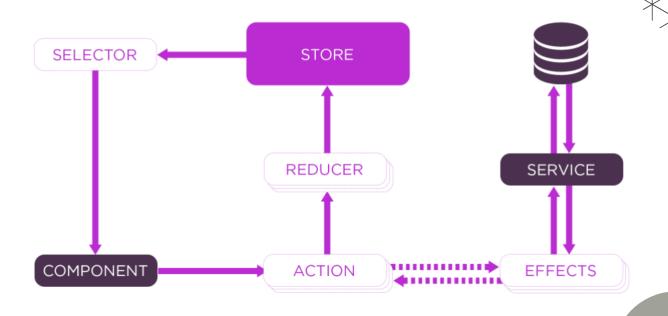
Tan Hui Yan Constance Wee Hui Yu, Fiona



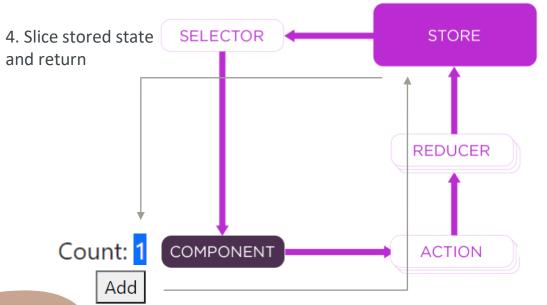
## What is NgRx Store?

A global state management for Angular applications

### State Management Lifecycle



## State Management Lifecycle

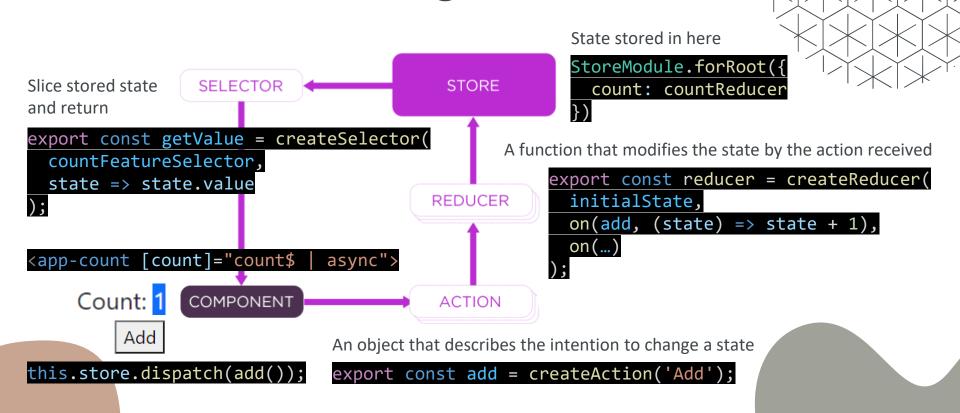


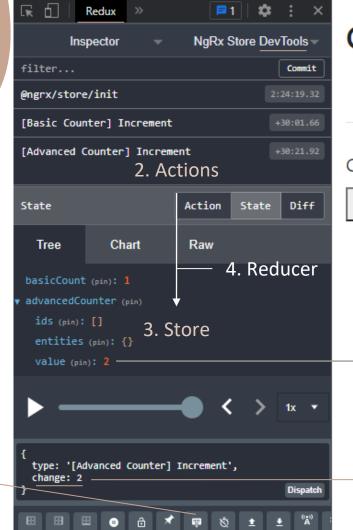
3. State stored in here

2. Function that modifies the state by the action received

1. An object that describes the intention to change a state

### State Management Lifecycle





6. Manually

dispatch

actions

#### Counter

Advanced Basic

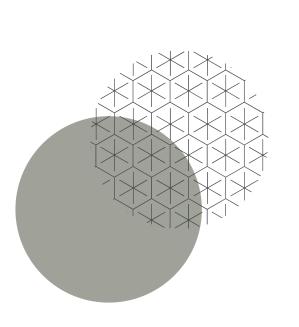
Current Count: 2 Increment type: "[Advanced Counter] Increment", change: 1

1. Component

5. Selector

7. Props

Demo



# Why NgRx?



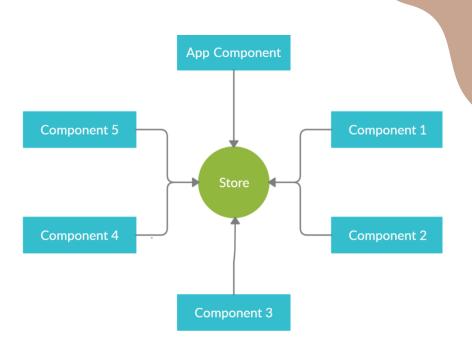
#### **Benefits**

#### Ol Single Source of Truth

App state stored in a single store

The store is responsible for storing and providing data to components when requested

→ easier to debug/inspect app



#### **Benefits**

#### **O2** Immutability

Cannot directly change state

Must be through dispatching an action

→ centralized way of changing the state

#### **03** Performance

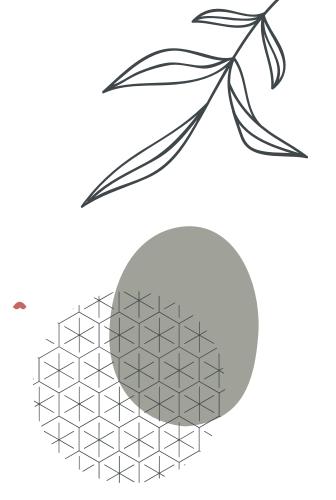
Selectors are memoized

i.e. won't be called unnecessarily unless data in the store changes

→ performance boost

## When To Use?





#### When To Use

01

When multiple components access the same app state

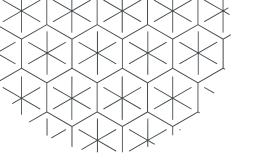
02

When working on a large app with many people

03

When app state is updated frequently





# State Management in Frameworks



Redux

React



**VueX** 

Vue



jQuery

#### References & Resources

- Documentation
  - https://ngrx.io/guide/store
- Articles
  - https://betterprogramming.pub/angular-getting-started-with-ngrx-75b9139c23eb
  - https://indepth.dev/posts/1456/a-journey-into-ngrx-selectors
  - https://www.jobsity.com/blog/why-and-when-you-should-use-redux
- Redux Devtools
  - https://chrome.google.com/webstore/detail/reduxdevtools/lmhkpmbekcpmknklioeibfkpmmfibljd?hl=en



# Thank you for Listening!







