Final Words

Duncan Hunter

Lead Frontend Developer

@dunchunter | duncanhunter.com.au

What is NgRx?

NgRx is a framework for building reactive applications in Angular. NgRx provides libraries for:

- Managing global and local state.
- Isolation of side effects to promote a cleaner component architecture.
- Entity collection management.
- Integration with the Angular Router.
- Developer tooling that enhances developer experience when building many different types of applications.

Packages

NgRx packages are divided into a few main categories

State

- Store - RxJS powered global state management for Angular apps, inspired by Redux.
- Effects - Side effect model for @ngrx/store.
- Router Store - Bindings to connect the Angular Router to @ngrx/store.
- Entity - Entity State adapter for managing record collections.
- ComponentStore - Standalone library for managing local/component state.

Data

- Data - Extension for simplified entity data management.

View

- Component - Extension for building reactive Angular templates.

Developer Tools

- Store Devtools - Instrumentation for @ngrx/store that enables visual tracking of state and time-travel debugging.
- Schematics - Scaffolding library for Angular applications using NgRx libraries.

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@ngrx/schematics

Schematics: scaffolding library for generating code using the CLI

- ng new
- ng generate

@ngrx/schematics: set of schematics for generating NgRx

- ng generate store
- ng generate action
- ng generate reducer
- ng generate effect
- ng generate feature
- ng generate container
- ng generate entity

ngrx/data

Abstracts away the NgRx entity code

Configuration and convention, not code

- No actions or action creators
- No reducers
- No selectors
- No effects
- No code generation

Extension points for customization

ngrx/ component

Set of helpers to enable more fully reactive applications

Currently provides:

- ngrxPush pipe
- ngrxLet directive

Angular - Getting started with

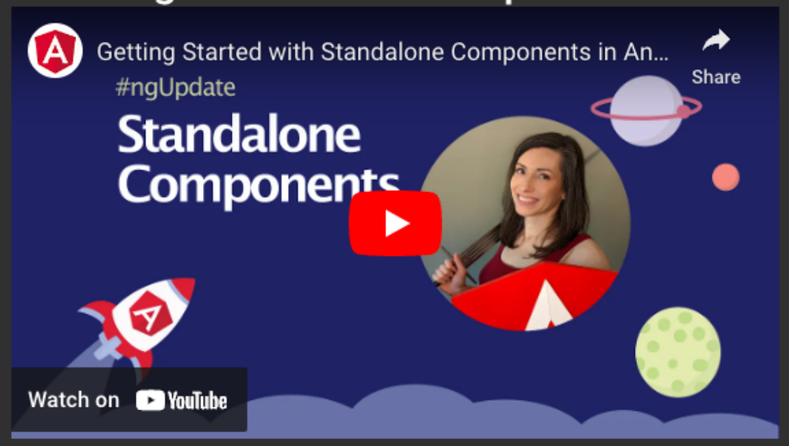
angular.io/guide/standalone-components

Search /

Getting started with standalone components

Standalone components provide a simplified way to build Angular applications. Standalone components, directives, and pipes aim to streamline the authoring experience by reducing the need for `NgModule`s. Existing applications can optionally and incrementally adopt the new standalone style without any breaking changes.

Creating standalone components



The `standalone` flag and component `imports`

Components, directives, and pipes can now be marked as `standalone: true`. Angular classes marked as standalone do not need to be declared in an `NgModule` (the Angular compiler will report an error if you try).

Angular - Angular Signals

angular.io/guide/signals

signals

Angular Signals

Angular Signals is a system that granularly tracks how and where your state is used throughout an application, allowing the framework to optimize rendering updates.

> Angular signals are available for developer preview. They're ready for you to try, but may change before they are stable.

What are signals?

A **signal** is a wrapper around a value that can notify interested consumers when that value changes. Signals can contain any value, from simple primitives to complex data structures.

A signal's value is always read through a getter function, which allows Angular to track where the signal is used.

Signals may be either *writable* or *read-only*.

Writable signals

Writable signals provide an API for updating their values directly. You create writable signals by calling the `signal` function with the signal's initial value:

```
const count = signal(0);

// Signals are getter functions - calling them reads their value.
console.log('The count is: ' + count());
```

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