



What Makes a Standalone
Component Different from an
Angular Module?



1. Declaration vs Self-contained

NgModule approach:

A component must be declared inside a module's declarations array.

```
@NgModule({
  declarations: [HomeComponent, AboutComponent],
  imports: [CommonModule],
  exports: [HomeComponent]
})
```

Standalone approach:

A component declares itself as standalone, no need for

```
@Component({
  selector: 'app-home',
  standalone: true,
  template: `<h1>Home</h1>`,
  imports: [CommonModule] //=> component directly manages dependencies
})
```



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2.

Bootstrapping

NgModule: App starts by bootstrapping AppModule.

```
platformBrowserDynamic().bootstrapModule(AppModule);
```

Standalone: App starts by bootstrapping a component directly.

```
bootstrapApplication(AppComponent);
```

Difference: No AppModule needed the entry point is a component.



3. Lazy Loading

NgModule: You lazy load a module.

```
{ path: 'about', loadChildren: () => import('./about/about.module').then(m => m>AboutModule) }
```

Standalone: You lazy load a component directly.

```
{ path: 'about', loadComponent: () => import('./about/about.component').then(c => c>AboutComponent) }
```

Difference: Standalone eliminates “module shells” for lazy loading.



4.

In NgModule world

Imports

- When you import a module (like CommonModule, FormsModule, or MatButtonModule) into an NgModule,
- all components declared inside that module get access to those imports.

In Standalone world

- Each component declares its own imports explicitly.
- No automatic sharing → every component has only what it needs.

Analogy:

- NgModule: Like a buffet once you pay (import), everything is available to everyone.
- Standalone: Like an à la carte menu each component orders only the dishes (imports) it wants.



5. Testing

- **NgModule:** Requires setting up a TestBed with the module.
- **Standalone:** You can import the component directly.

```
await TestBed.configureTestingModule({  
  imports: [HomeComponent]  
}).compileComponents();
```