



# 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

NgModule



```
@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);
```



```
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.

### Imports

- When you import a module (like CommonModule, FormsModule, or MaterialButtonModule) 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();
```