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Designing Angular Components For External Configuration



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Scenario

We want users of our component to be able to be able to declare it as an NPM dependency and a design time configuration for it.

To demo this we the Stackblitz AppComponent as the component we are depending on, but









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Inside the AppComponent create an exported InjectionToken key that will be used by the module to configure the provider.

Side Note

What we are doing here is creating a bridge via a shared key value (The InjectionToken instance) that allows the AppModule to know how to go about providing the configuration object to our component. The AppModule.providers array is used to configure the provision of the configuration via the shared key.

Configure the AppModule

Import the InjectionKey export from the AppComponent into the AppModule and use it to create the provider. Here's a stackblitz demo:



The AppComponent will log the injected config object.

Summary









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declared in the component and uses it to specify the configuration in the **NgModule.providers** array.

Follow Up

If we wanted to do this more formally we could create a module for the component and place a <code>forRoot</code> static method on the module that also performs the configuration of the providers. That way we are symmetric with the approach used for the <code>RouterModule</code>.

This is how that's done (We are assuming that we also created a configuration interface called <code>ConfigurationInterface</code>):

```
static forRoot(config:ConfigurationInterface): ModuleWithProviders {

return {
  ngModule: MyComponentModule
  provider: [{ provider: tokenConfigKey, config}]
  }
}
```





