



Koin S

Version 3.0 - Annotations Support





Oh, you Ensign! (sad) Great, I will help you!



```
buildscript {
    ext {
        ksp_version = '1.6.21-1.0.5'
        koin_ksp_version = '1.0.1'
        koin_version = '3.2.0'
        kotlin_version = '1.6.21'
}
```

Step 1: Declare your dependency versions at your **Gradle file** in the **project level**.



```
id 'com.android.application' version '7.2.1' apply false
  id 'com.android.library' version '7.2.1' apply false
  id 'org.jetbrains.kotlin.android' version "$kotlin_version" apply false
  id "com.google.devtools.ksp" version "$ksp_version"
```

Step 2: Specify some configurations because Koin is using ksp.
Go to your **Gradle file** in the **module level**.

```
id 'com.android.application'
id 'org.jetbrains.kotlin.android'
id "com.google.devtools.ksp"
```

```
android {
    compileSdk 32

defaultConfig {...}

buildTypes {...}

compileOptions {...}

kotlinOptions {jvmTarget = '1.8'}

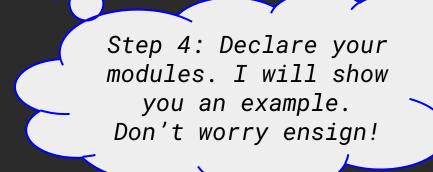
buildFeatures {viewBinding true}

sourceSets.main {
    java.srcDirs("build/generated/ksp/main/kotlin")
}
```

Step 3: At the same file, declare your dependencies.



implementation "io.insert-koin:koin-core:\$koin_version"
implementation "io.insert-koin:koin-android:\$koin_version"
implementation "io.insert-koin:koin-annotations:\$koin_ksp_version"
ksp "io.insert-koin:koin-ksp-compiler:\$koin_ksp_version"



ComponentScan is a great annotation to map your components:

@Module

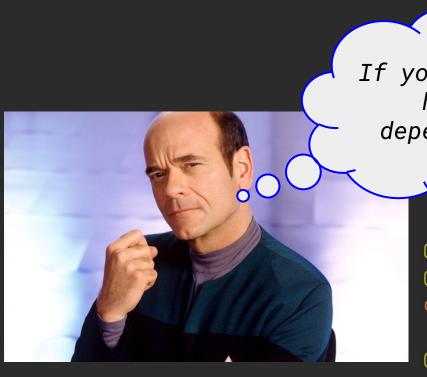
@ComponentScan("com.example.koinannotations.repo")
class RepositoryModule

✓ Image: Tepo
 ✓ CharacterDTO
 ✓ StarTrekCharactersRepository
 ✓ StarTrekCharactersRepositoryInMemory

```
@Single(binds = [
         StarTrekCharactersRepository::class
     ])
     Jclass StarTrekCharactersRepositoryInMemory : StarTrekCharactersRepository {
         override fun getCharacters(): List<CharacterDTO> { ... }
@Modul}
@ComponentScan("com.example.koinannotations.repo")
class RepositoryModule
```



Single
instance
binding the
abstraction



If your module has a dependency:

```
@Module(includes = [RepositoryModule::class])
@ComponentScan("com.example.koinannotations.domain")
class DomainModule
```

@Module
@ComponentScan("com.example.koinannotations.repo")
class RepositoryModule

```
If you prefer avoid

ComponentScan, you

can declare:
```

```
@Module(includes = [DomainModule::class])

@Required for
ViewModels...

@KoinViewModel

fun mainViewModel(useCase: GetStarTrekCharactersUseCase): MainViewModel {
    return MainViewModel(useCase)
}
```

```
class MyApp : Application() {
    override fun onCreate() {
       super.onCreate()
       startKoin { this: KoinApplication
          modules(
             ViewModelsModule().module
```



```
override fun onCreate() {
     super.onCreate()
     startKoin { this: KoinApplication
          modules(
               ViewModelsModule().module
                                            @Module
                                            @ComponentScan("com.example.koinannotations.repo")
                                            class RepositoryModule
                                            @Module(includes = [RepositoryModule::class])
     ViewModelsModule depends
                                            @ComponentScan("com.example.koinannotations.domain")
       on the DomainModule,
                                            class DomainModule
     DomainModule depends on
      the RepositoryModule.
                                            @Module(includes = [DomainModule::class])
      Koin already knows that
                                            class ViewModelsModule {...}
```



By Moro