

ViewModel APIs cheat sheet - Compose

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This cheat sheet lists the ViewModel APIs in Jetpack. It includes the artifact where they can be found, the scope of the returned ViewModel instance, and an example of how to use them.

You can scope ViewModel instances to a **ViewModelStoreOwner**.

The owner can be an Activity, Navigation graph, a destination of a Navigation graph, or your own custom owner.

For more use cases and to learn about ViewModel factories:
goo.gle/architecture-viewmodel

The APIs and artifacts listed in this page follow this template

Library - artifact

ViewModel API

Scope of the returned ViewModel instance

Example code

Core ViewModel API

ViewModel - lifecycle:lifecycle-viewmodel-ktx

ViewModelProvider

any ViewModelStoreOwner

```
val vm = ViewModelProvider(anyViewModelStoreOwner)[MyViewModel::class.java]
```

Get an instance in Jetpack Compose

Compose - lifecycle:lifecycle-viewmodel-compose

= viewModel()

closest ViewModelStoreOwner

```
@Composable
fun MyScreen(vm: ViewModel = viewModel()) { ... }
```

= viewModel(vmStoreOwner)

any ViewModelStoreOwner

```
// Example of getting a ParentViewModel instance scoped to the Navigation graph
composable("myScreen") { backStackEntry ->
    val parentEntry = remember(backStackEntry) {
        navController.getBackStackEntry("parentNavigationRoute")
    }
    val parentViewModel = viewModel<ParentViewModel>(parentEntry)
    ...
}
```

Compose + Navigation + Hilt - hilt.hilt-navigation-compose

When using Hilt and Navigation together, use this API instead of `viewModel()`

= hiltViewModel()

closest ViewModelStoreOwner

```
@Composable
fun MyScreen(vm: ViewModel = hiltViewModel()) { ... }
```