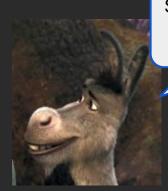




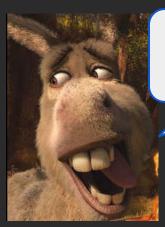
UI tests with Compose



Shrek, Compose functions are the future!



Shrek, do you know something about testing?



Shrek, let's try to test a Composable function..

Shrek, are you here?





```
compose_bom = <u>"2023.05.01"</u>
compose_compiler = <u>"1.4.3"</u>
```

```
compose_bom = { group = "androidx.compose", name = "compose-bom", version.ref = "compose_bom" }
compose_bom_ui = { module = "androidx.compose.ui:ui" }
compose_bom_preview = { module = "androidx.compose.ui:ui-tooling-preview" }
compose_bom_activity = { module = "androidx.activity:activity-compose" }
compose_bom_ui_tooling = { module = "androidx.compose.ui:ui-tooling" }
compose_bom_ui_test_manifest = { module = "androidx.compose.ui:ui-test-manifest" }
ui_compose_test = { group = "androidx.compose.ui", name = "ui-test-junit4", version.ref = "compose_compiler"}
```

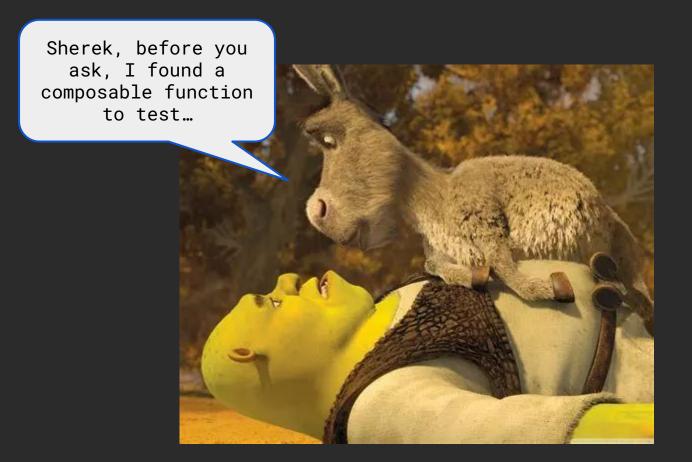
libs.versions.toml

According to the spec, we need to add the dependencies...

```
androidTestImplementation(libs.ui.compose.test)

// Compose
implementation(platform(libs.compose.bom))
implementation(libs.compose.bom.ui)
implementation(libs.compose.bom.preview)
implementation(libs.compose.bom.activity)
debugImplementation(libs.compose.bom.ui.tooling)
debugImplementation(libs.compose.bom.ui.test.manifest)
implementation(libs.bundles.compose.extras)
```

build.gradle.kts (app module)



It is an app bar. I want to test the following behaviors:

- There is a back event, the left arrow icon appears;
- There is no back event, the left arrow icon doesn't appear.



AppToolbarPreview - dark mode

← Jumangi

AppToolbarPreview - light mode

← Jumangi





First test, we need to test if our Composable function is showing the button when there is a valid event...

```
@Test
fun showAppBarNavigationUpIcon() {
    val backEvent = {
    composeTestRule.setContent {
        AppToolbar(
            title = "any title",
            backEvent = backEvent
    composeTestRule
        .onNodeWithContentDescription( label: "Back")
        .assertExists()
```

Second test, we need to test if our Composable function hides the button when no event is passed...

```
@Test
fun hideAppBarNavigationUpIcon() {
   val backEvent : (()->Unit)? = null
    composeTestRule.setContent {
        AppToolbar(
            title = "any title",
            backEvent = backEvent
    // assert
    composeTestRule
        .onNodeWithContentDescription( label: "Back")
        .assertDoesNotExist()
```



