

CompositionLocal

- A tool to pass data through Compositions implicitly
- Used to scope data to a sub-tree
- Different sub-trees can have different implementations



Explicit Composable Parameters

```
@Composable
fun App(name: String) {
    MaterialTheme {
        TextBar("Hello", Color.Cyan)
    }
}

@Composable
fun TextBar(name: String, color: Color) {
    Text(text = "Hello $name!", color = color )
}
```



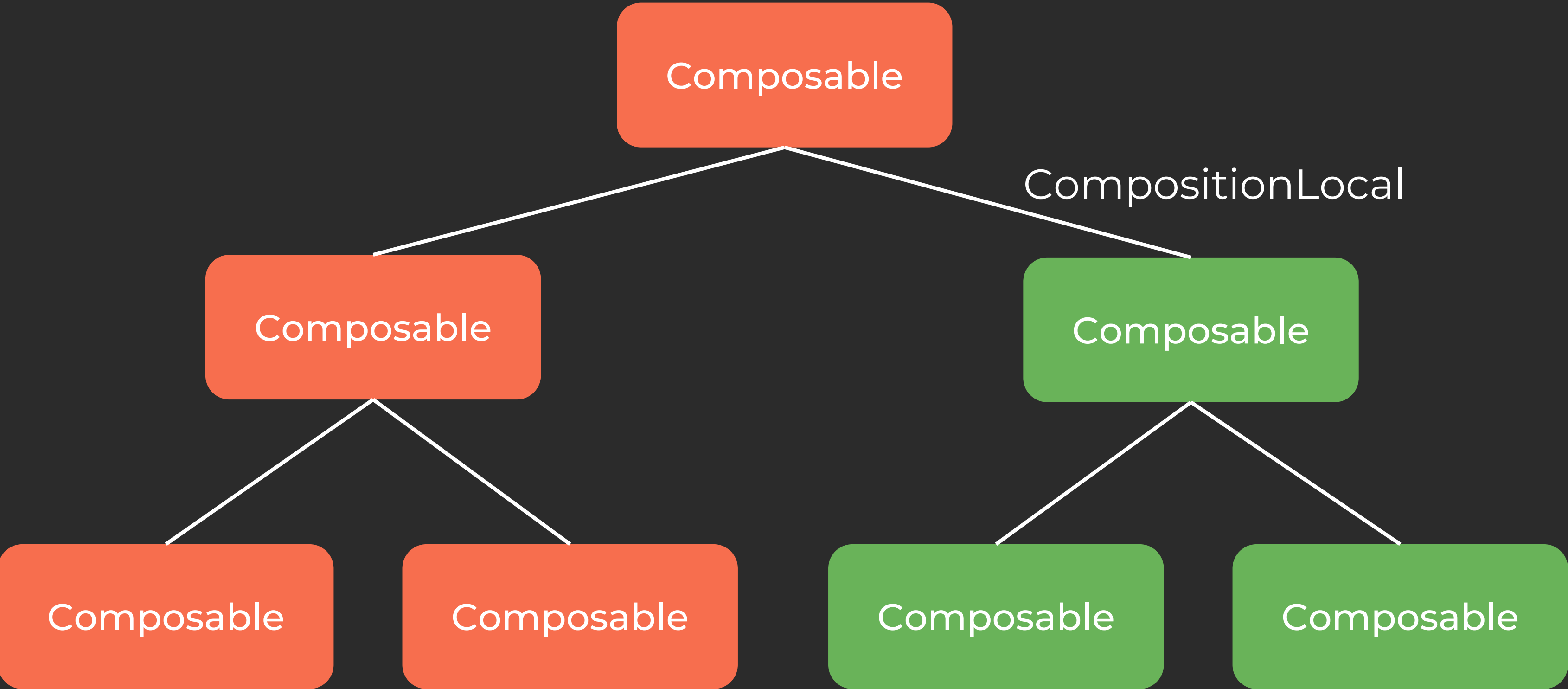
Implicit Composable Parameters

```
@Composable
fun App(name: String) {
    MaterialTheme {
        TextBar("Hello")
    }
}

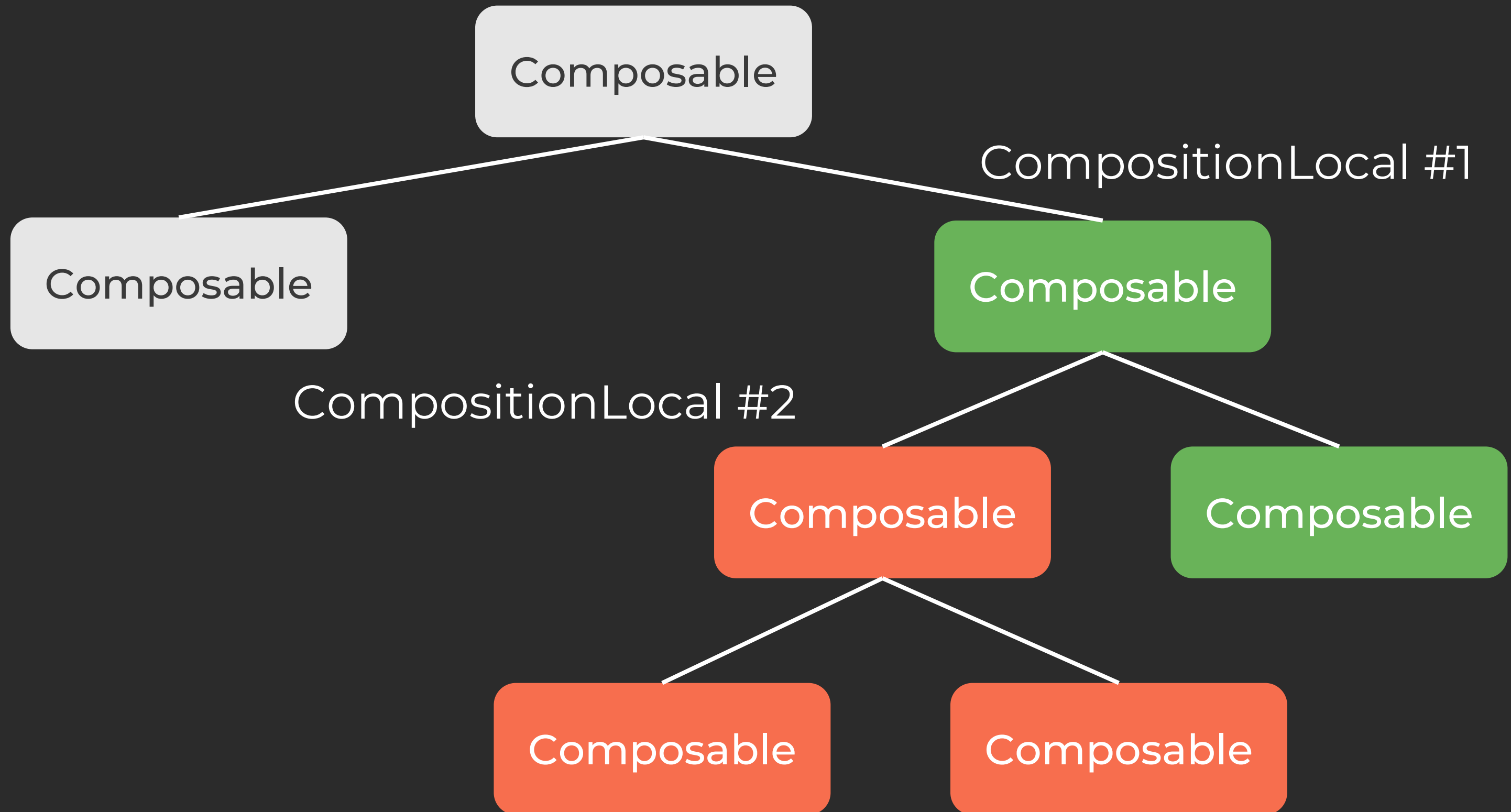
@Composable
fun TextBar(name: String) {
    Text(text = "Hello $name!", color = MaterialTheme.Colors.onSurface )
}
```



CompositionLocal Tree



CompositionLocal Tree



Ways to Create CompositionLocal

- `compositionLocalOf`
 - For values that change often or are animated
 - Eg: colors, dimensions
- `staticCompositionLocalOf`
 - For values that are less likely to change in the sub-tree
 - Eg: font loader

