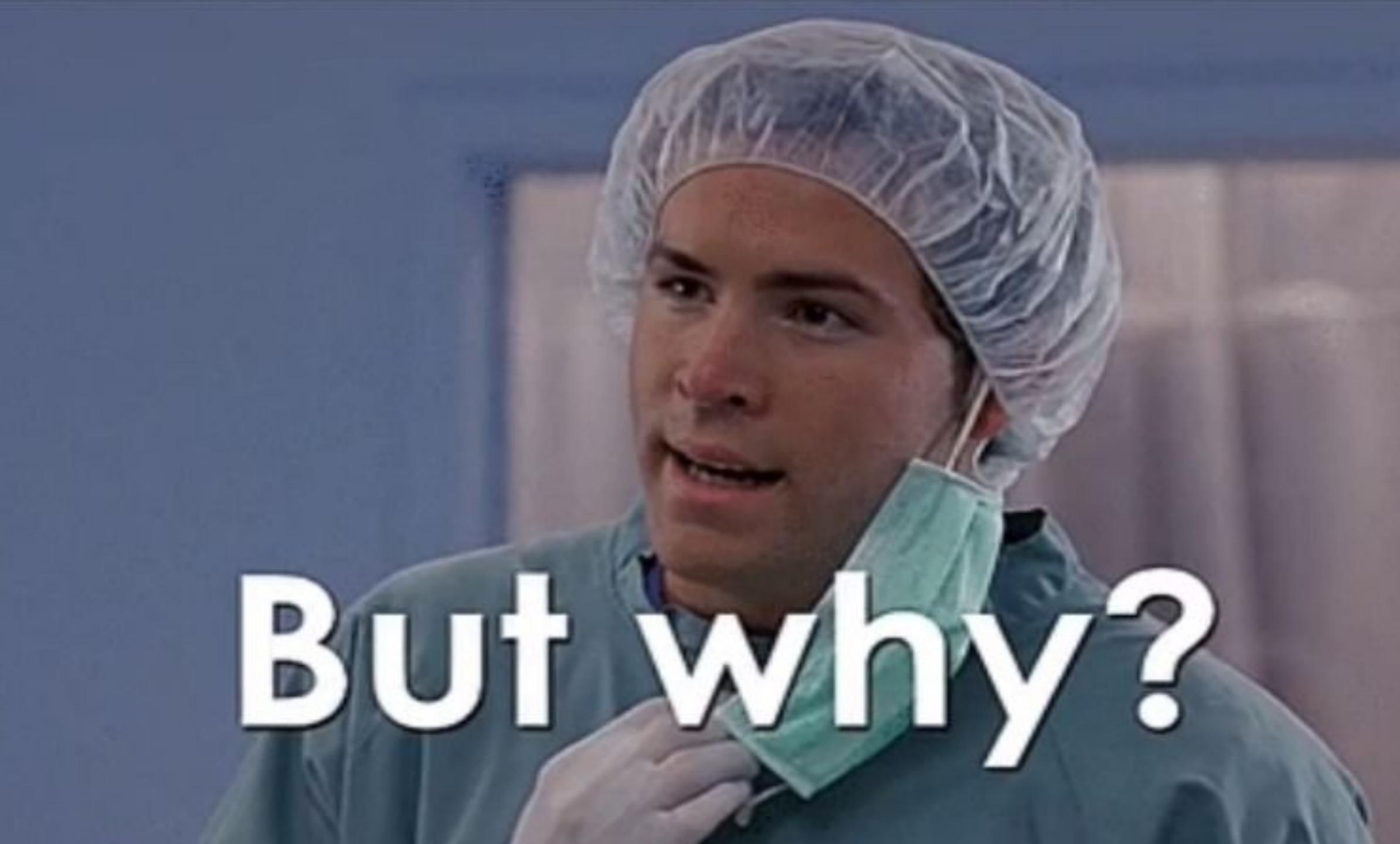


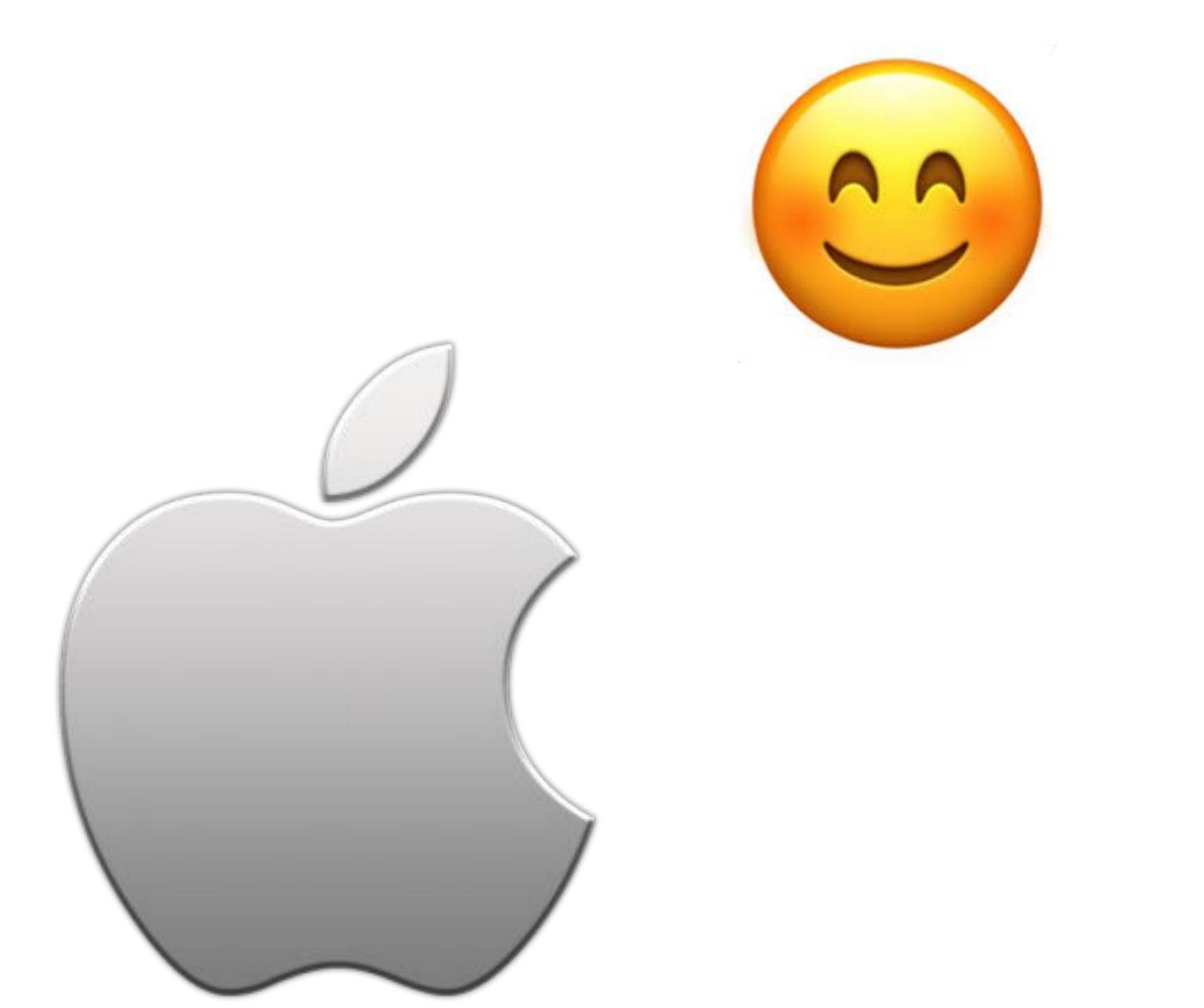
KOTLIN.ALSO { IT.TARGET = [WEB, IOS, ANDROID]

Martin Gagnon - Cofondateur et directeur du développement mobile

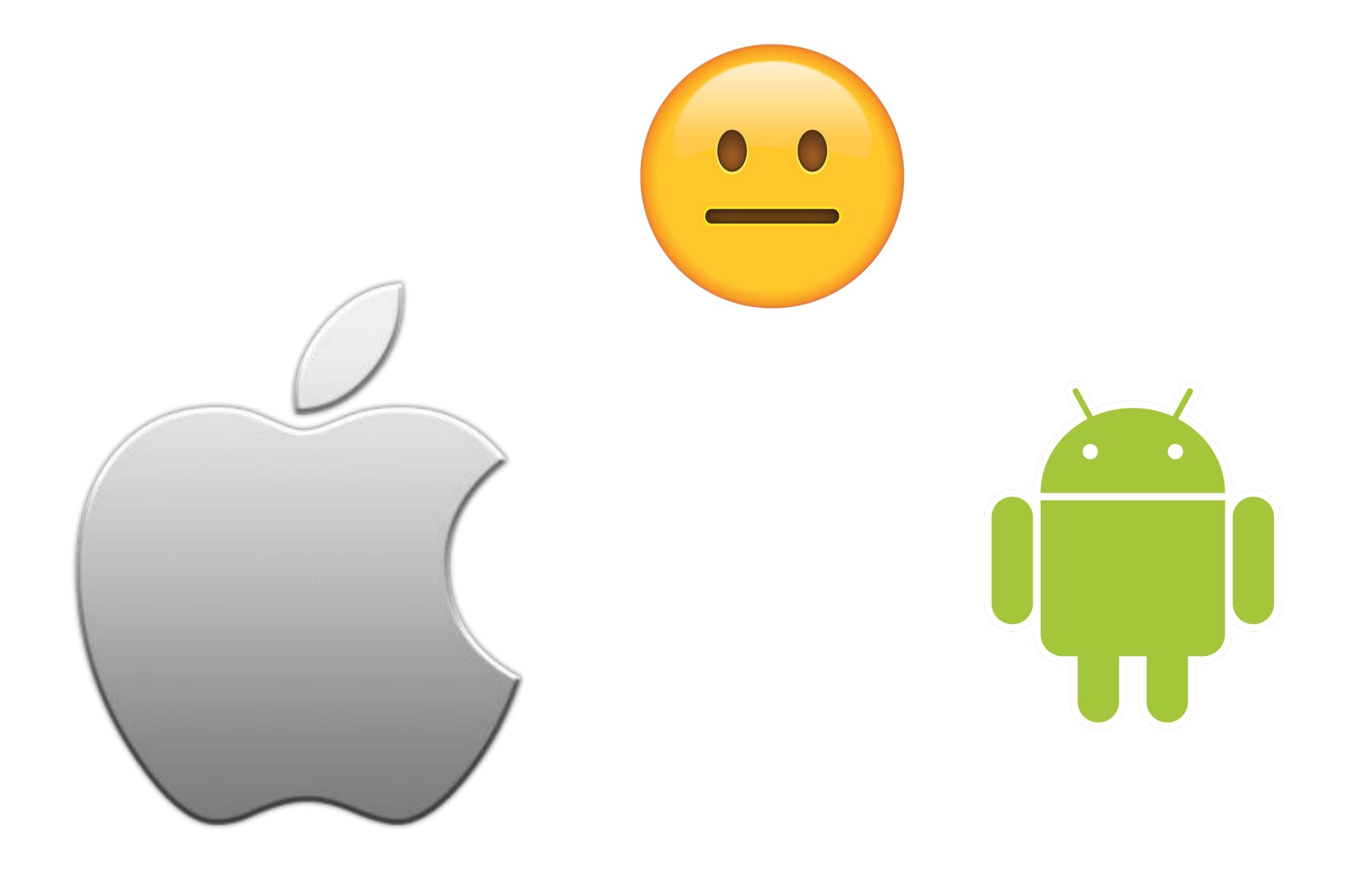


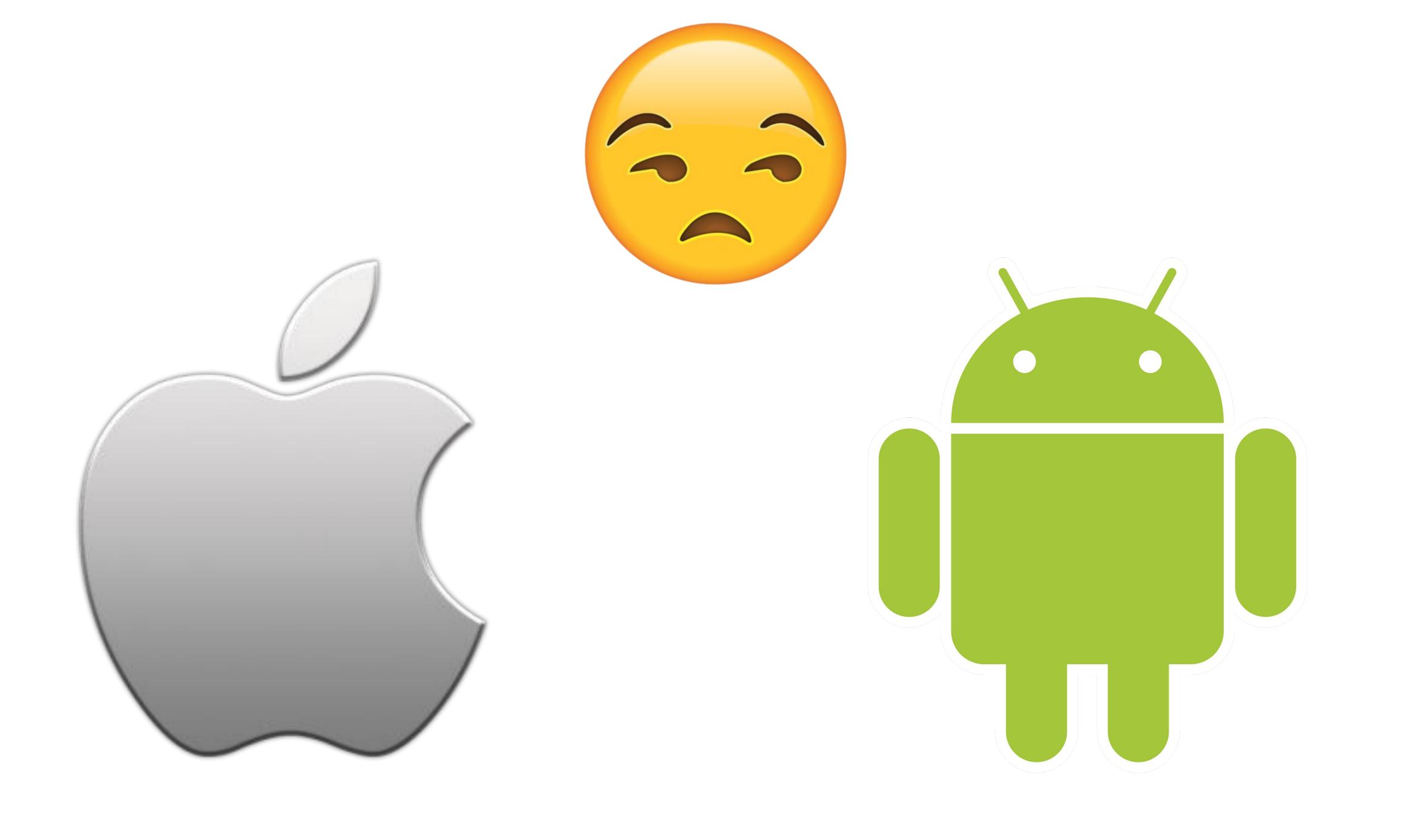












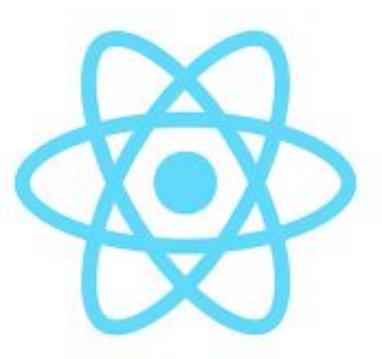










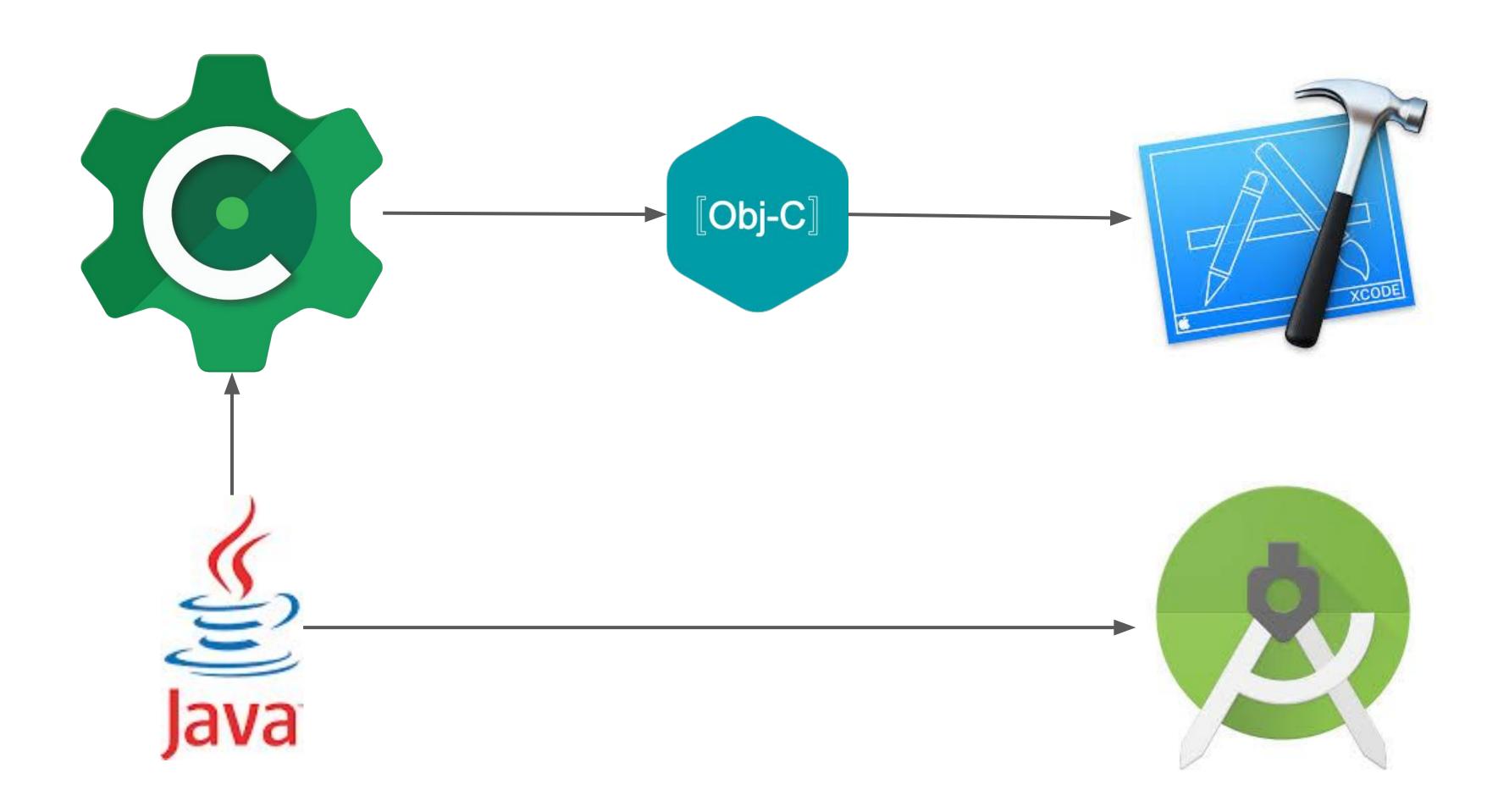


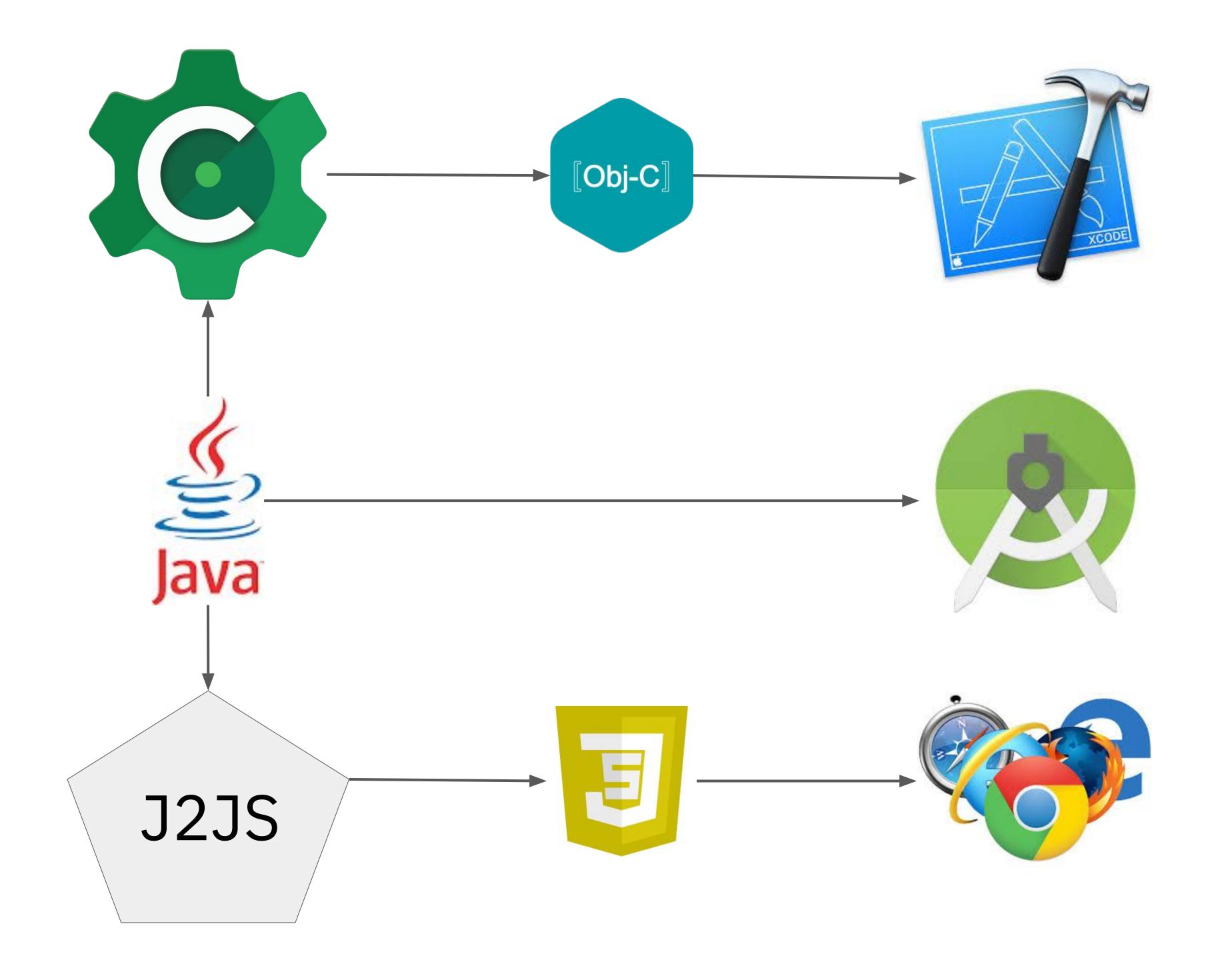


No compromise on the product

Platform is king

In house solution: SCRATCH

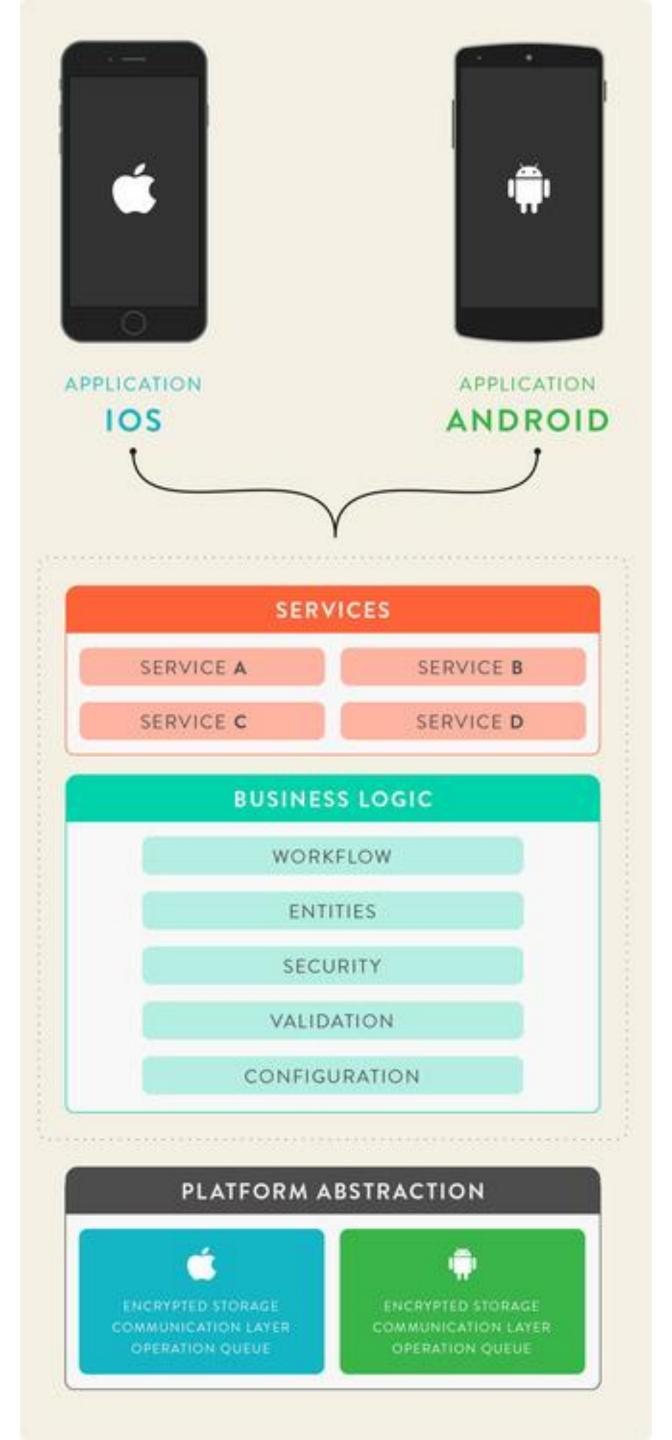


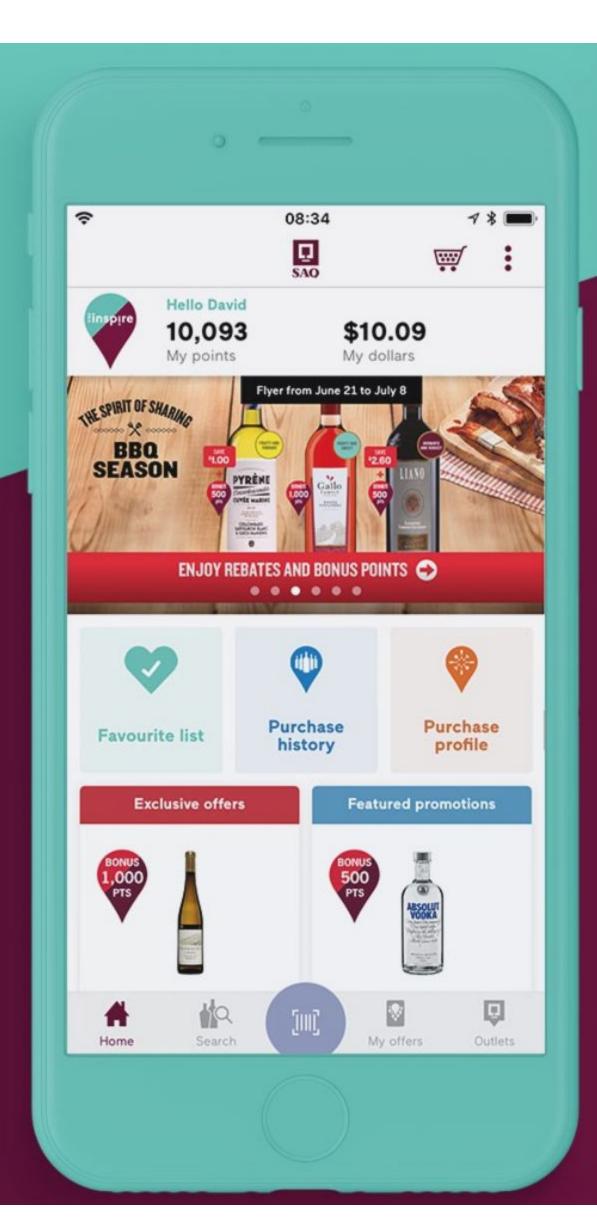


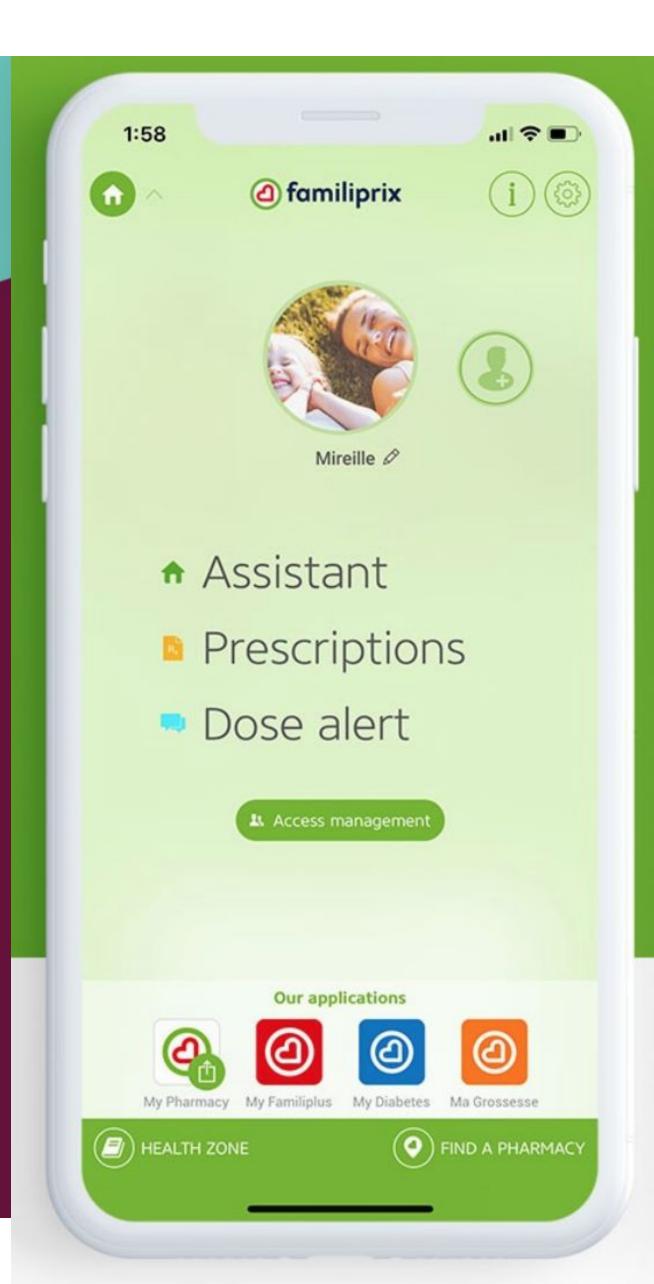
- UI/UX
- Animations

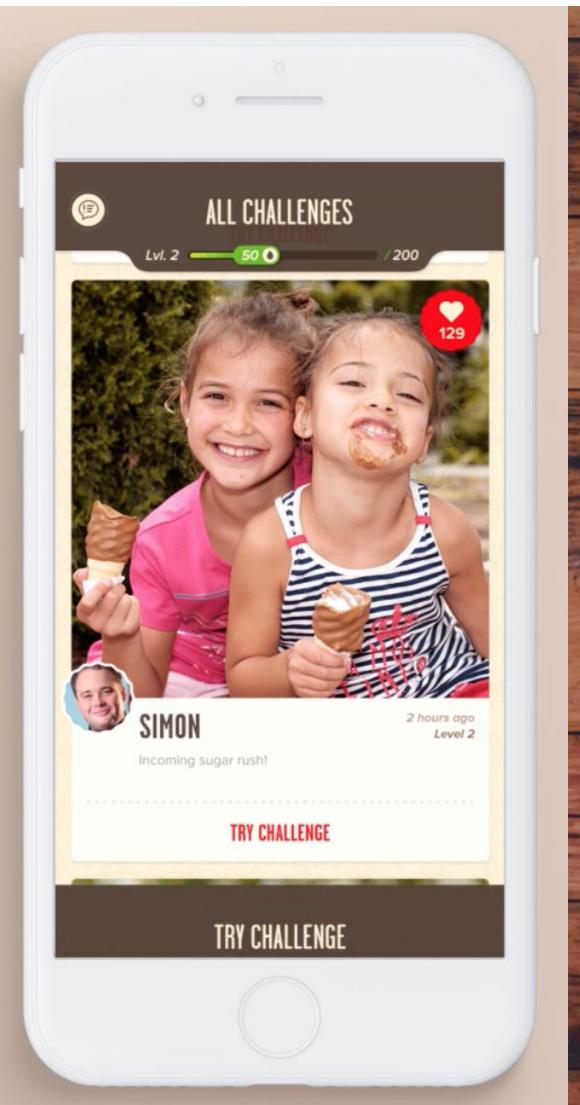
- Business Logic
- Models
- API Logic

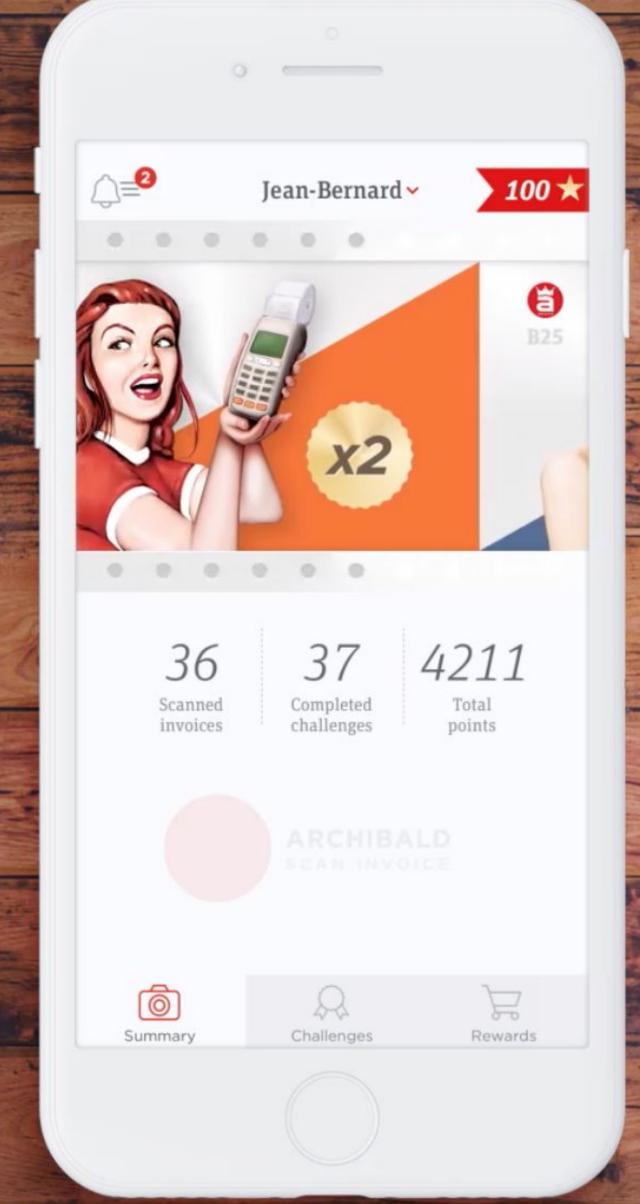
- HttpRequest
- Timers
- I/O

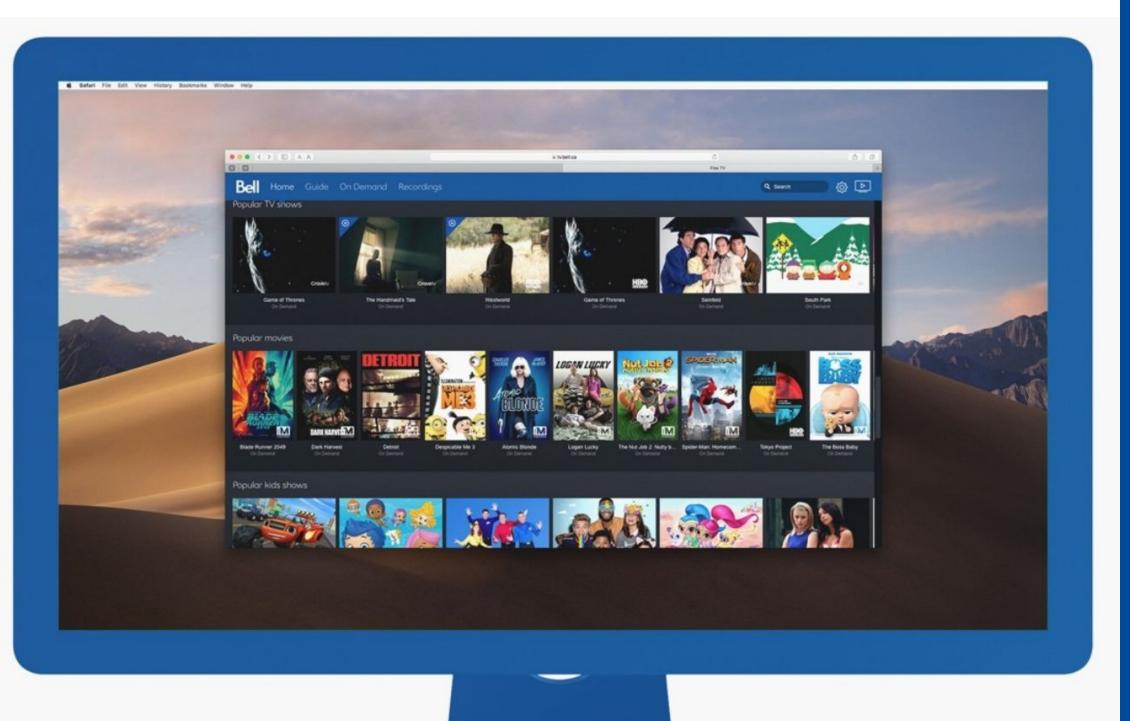
















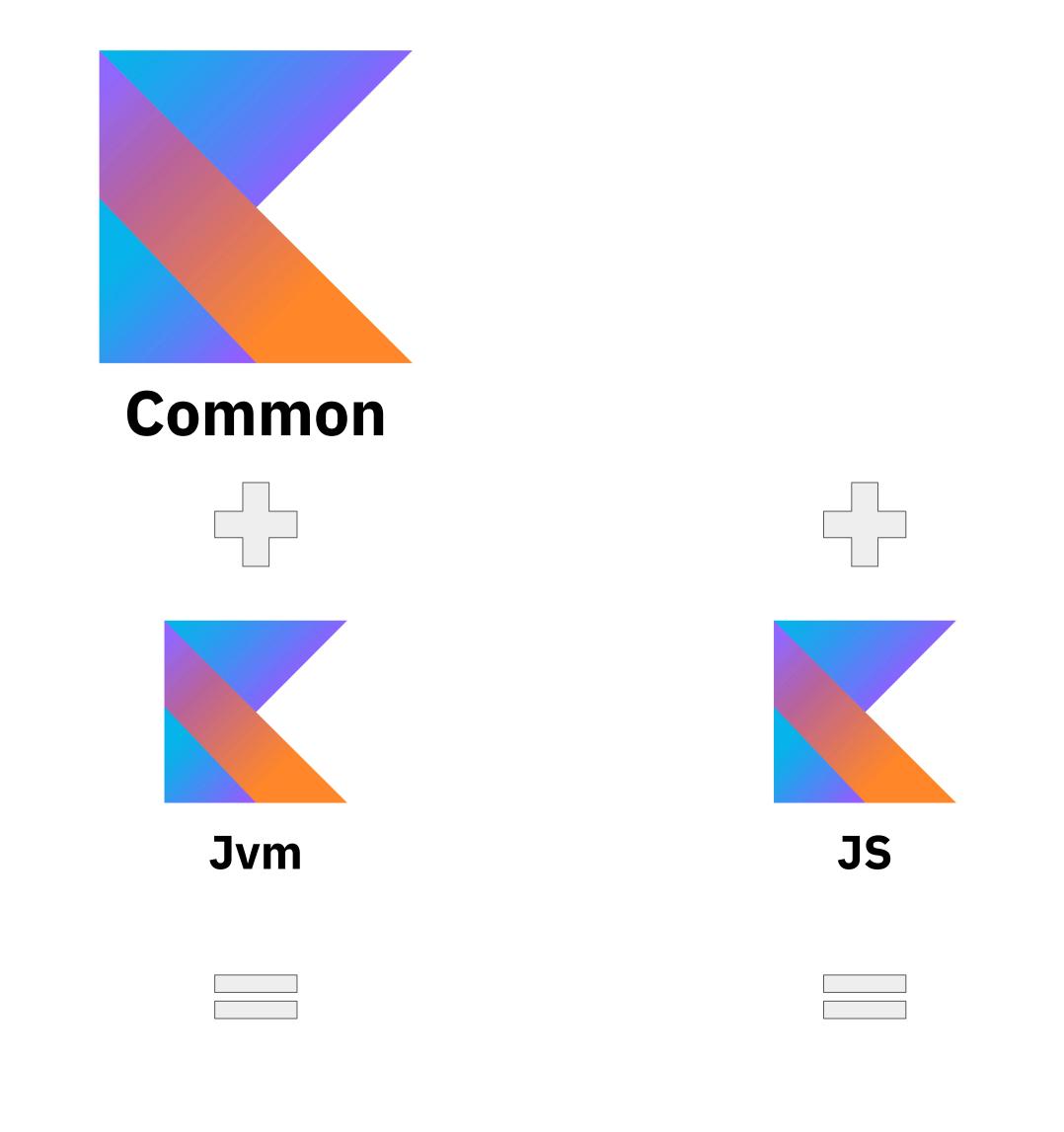
Common module package com.myapp.logger expect class ConsoleLogger { fun log(string: String) }

```
JS module
package com.myapp.logger

actual class ConsoleLogger {
  actual fun log(valueToLog: String) {
    console.log(valueToLog)
  }
}
```

JVM module package com.myapp.logger actual class ConsoleLogger { actual fun log(valueToLog: String) { Logger.getGlobal() .log(Level.INFO, valueToLog) } }

ConsoleLogger().log("Damn I Love MP")



Objective-C framework

Native

JAR

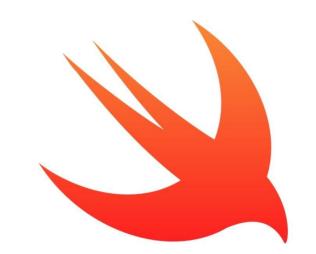
CommonJs

Bill Bill



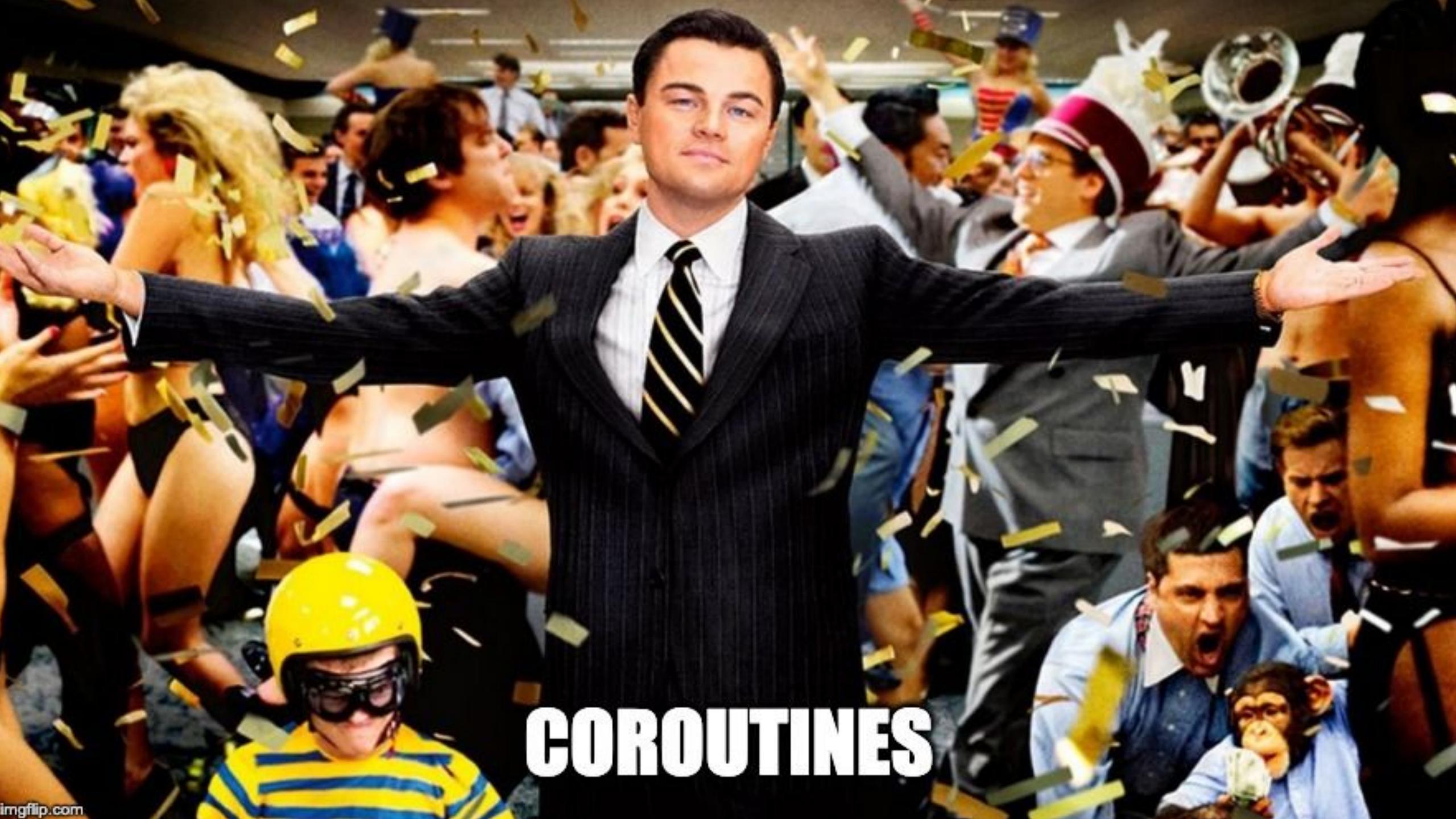


```
import {FooBar} from 'path/to/generated-library';
const {foo, bar} = FooBar.getFooBar();
console.log(foo)
console.log(bar)
```



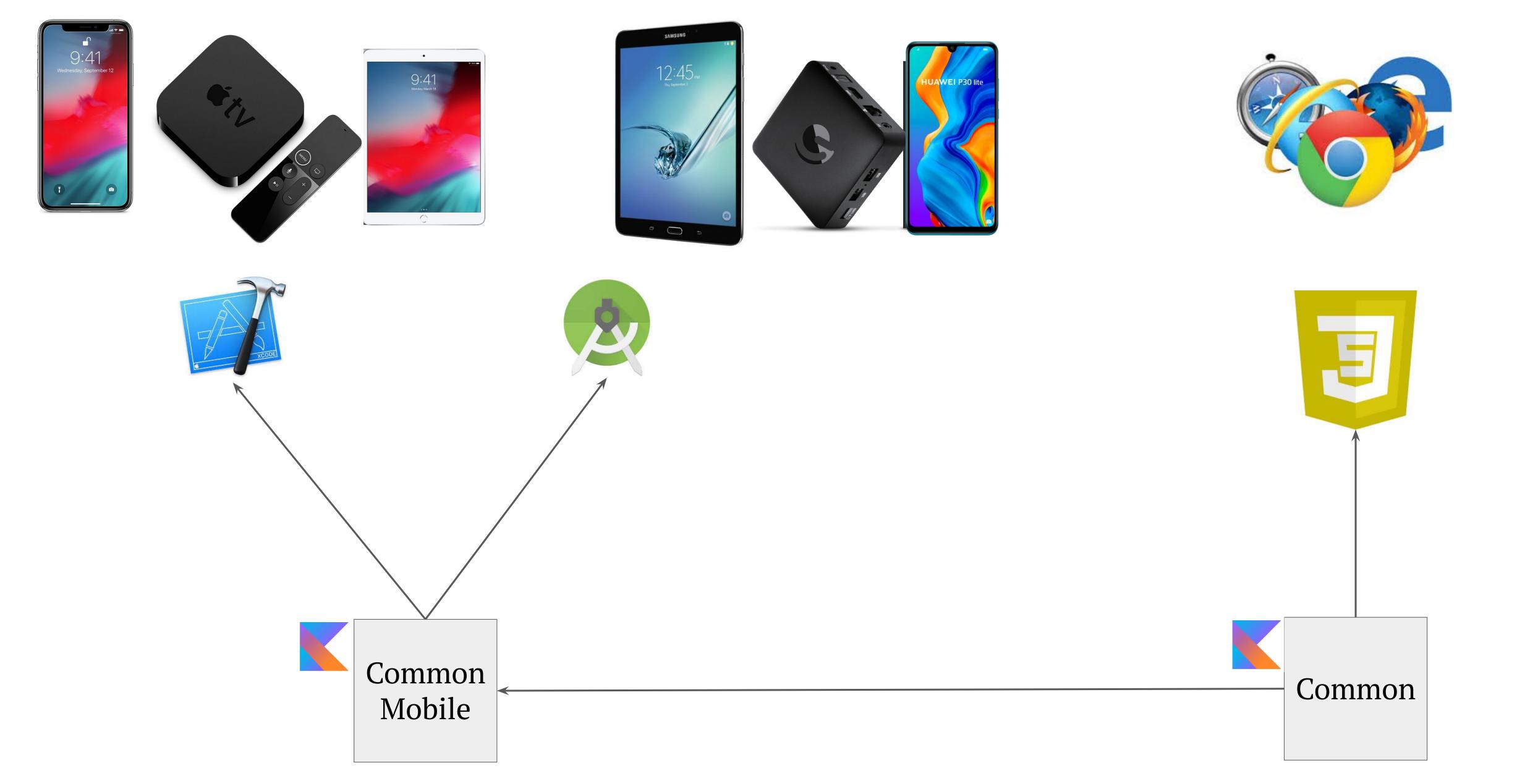
import GeneratedFramework

```
func printFooBar() {
  val fooBar = FooBar().getFooBar()
  print(fooBar.foo)
  print(fooBar.bar)
}
```





Our first KMPP





Daddy is just angry because he started using Kotlin/Native before it was ready. K/N Kotlin/Native implements **strict mutability checks**, ensuring the important invariant that the object is either **immutable** or accessible from the **single thread** at that moment in time (mutable XOR global).



Class AtomicReference can be used to publish the changed frozen state to other threads, and so build patterns like shared caches.

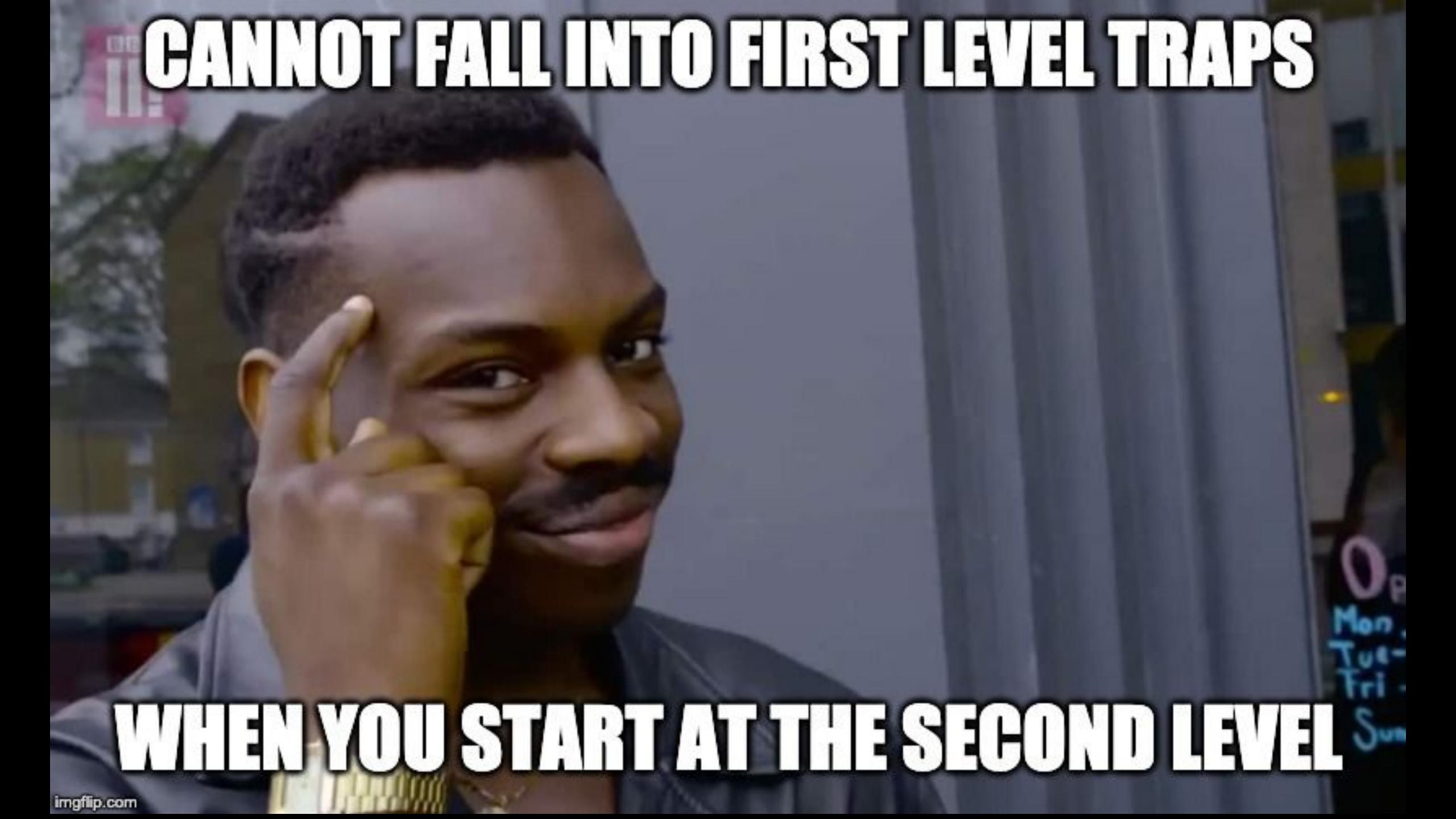
```
class Foo {
 val mutableString = AtomicReference<String>()
  fun mutateString(newValue: String) {
    val oldValue = mutableString.value
   mutableString.compareAndSet(oldValue, freeze(newValue))
```



```
val currentUser = storage.getAccessToken()
  .map { network.getCurrentUser(it) }
val isUserOldEnoughToDriveCar = currentUser
  .filter { it.data.user != null }
  .map { it.data.user.age > 16 }
val canDriveCarLabel = isUserOldEnoughToDriveCar
  .map { if (it) "Can drive" else "NO!" }
```



```
val currentUser = storage.getAccessToken()
  .map { network.getCurrentUser(it) }
val isUserOldEnoughToDriveCar = currentUser.filter {
it.data.user != null }
  .map { it.data.user.age > 16 }
val canDriveCarLabel = isUserOldEnoughToDriveCar
  .map { if (it) "Can drive" else "NO!" }
```





BE CREATIVE, BE PATIENT



USE ARRAYS INSTEAD OF LISTS



LEARN TO SHAKE TREES



CHECK YOUR GRADLE DEPENDENCIES



USE FREEZING WITH CARE



DON'T BLINDLY TRUST GARBAGE COLLECTION



FORGET COROUTINES (FOR NOW)





Trikot.streams

https://github.com/mirego/trikot.streams

ിനല്ലിരമണ





```
val userName = network
  .hasConnection
  .observeOn (backgroundThread)
  .switchMap { hasConnection ->
    if (hasConnection)
      getUserFromHttpPublisher()
    else
      getUserFromCache()
        user -> user.userName
```



myLabel.bind(userViewModel.userName, \UILabel.text)



val username = userViewModel

- .userName
- .asLiveData()



