TAMING A MIXED CODEBASE

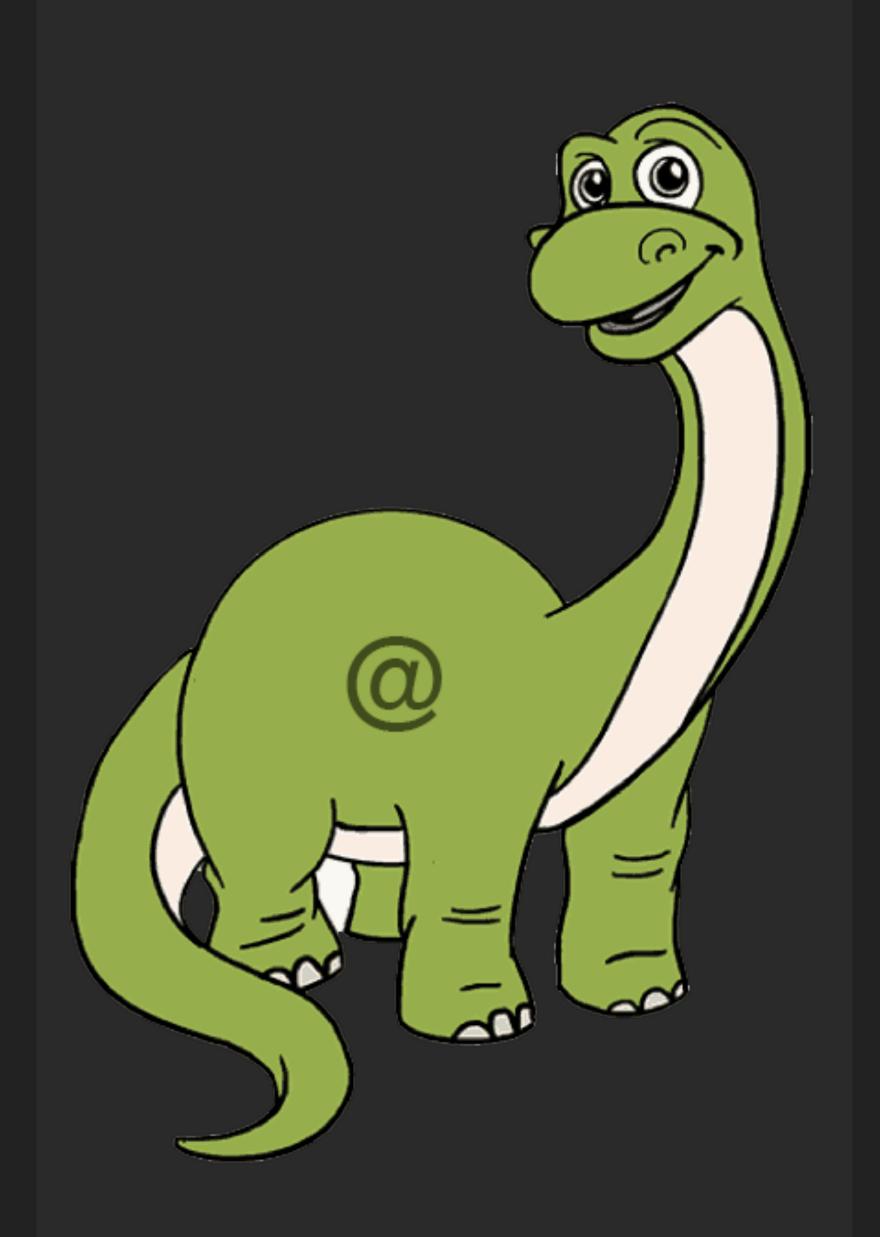
SWIFT & OBJECTIVE-C



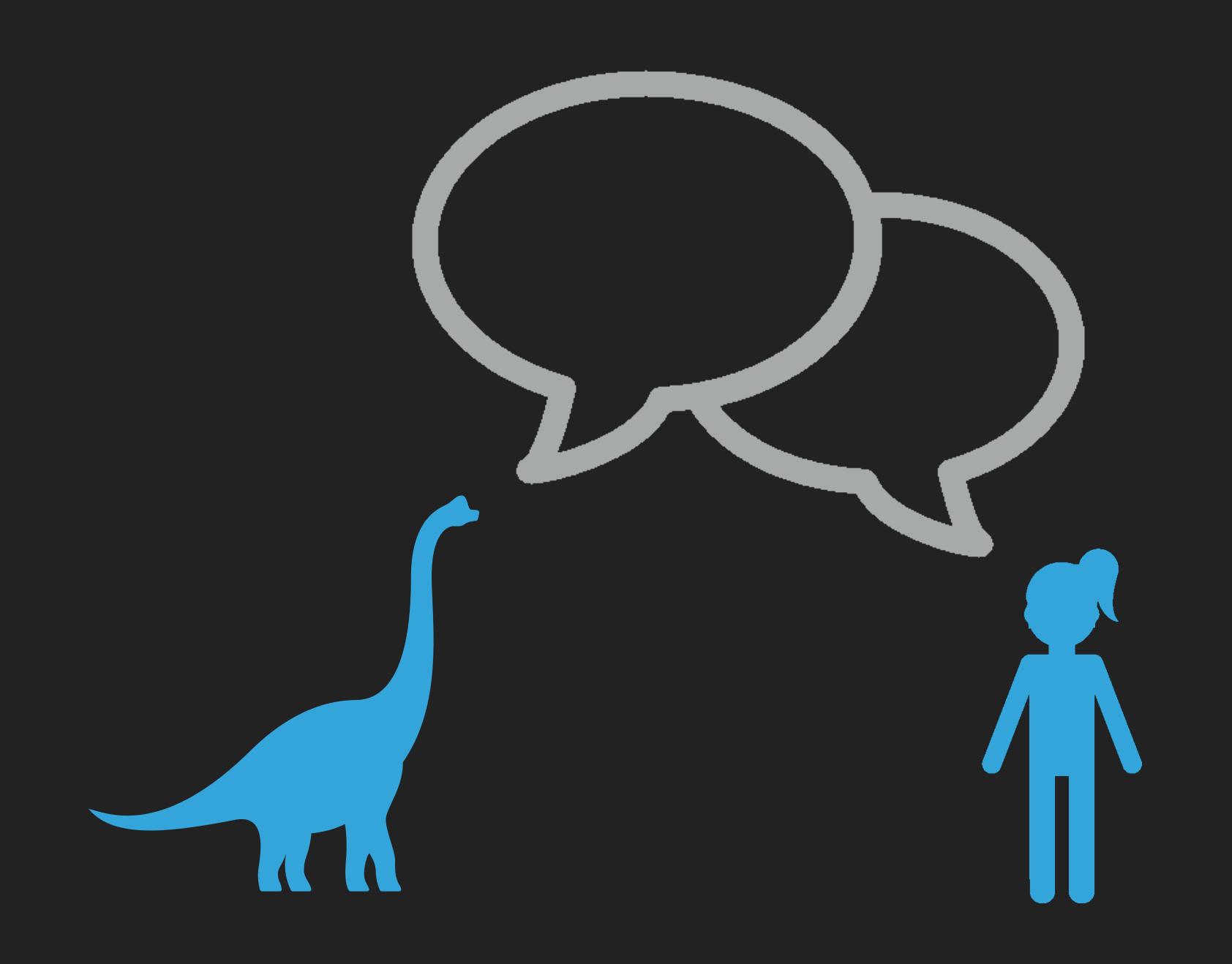
"FUNC-Y"

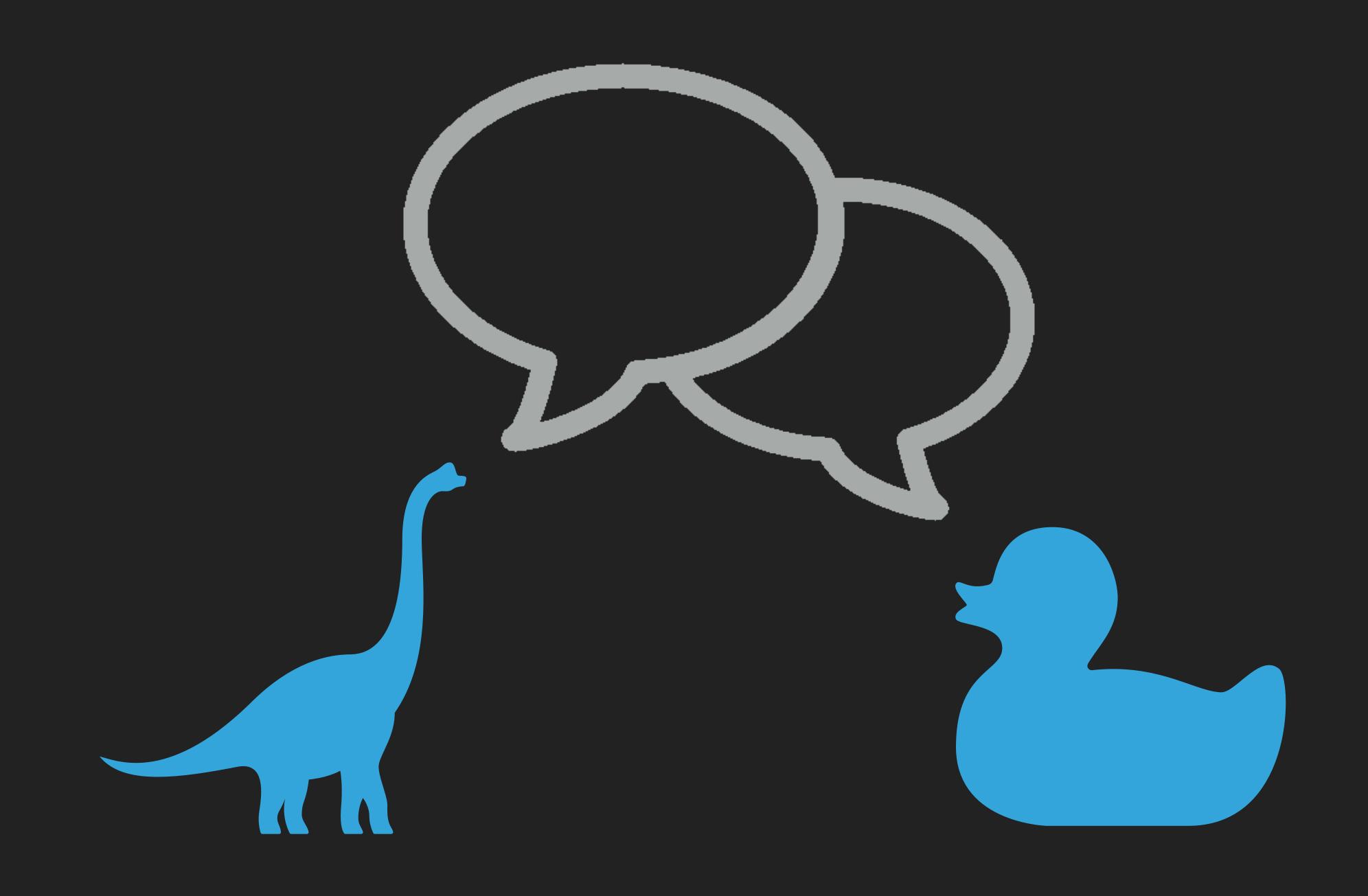
TAYLOR





"DYNAMIC"





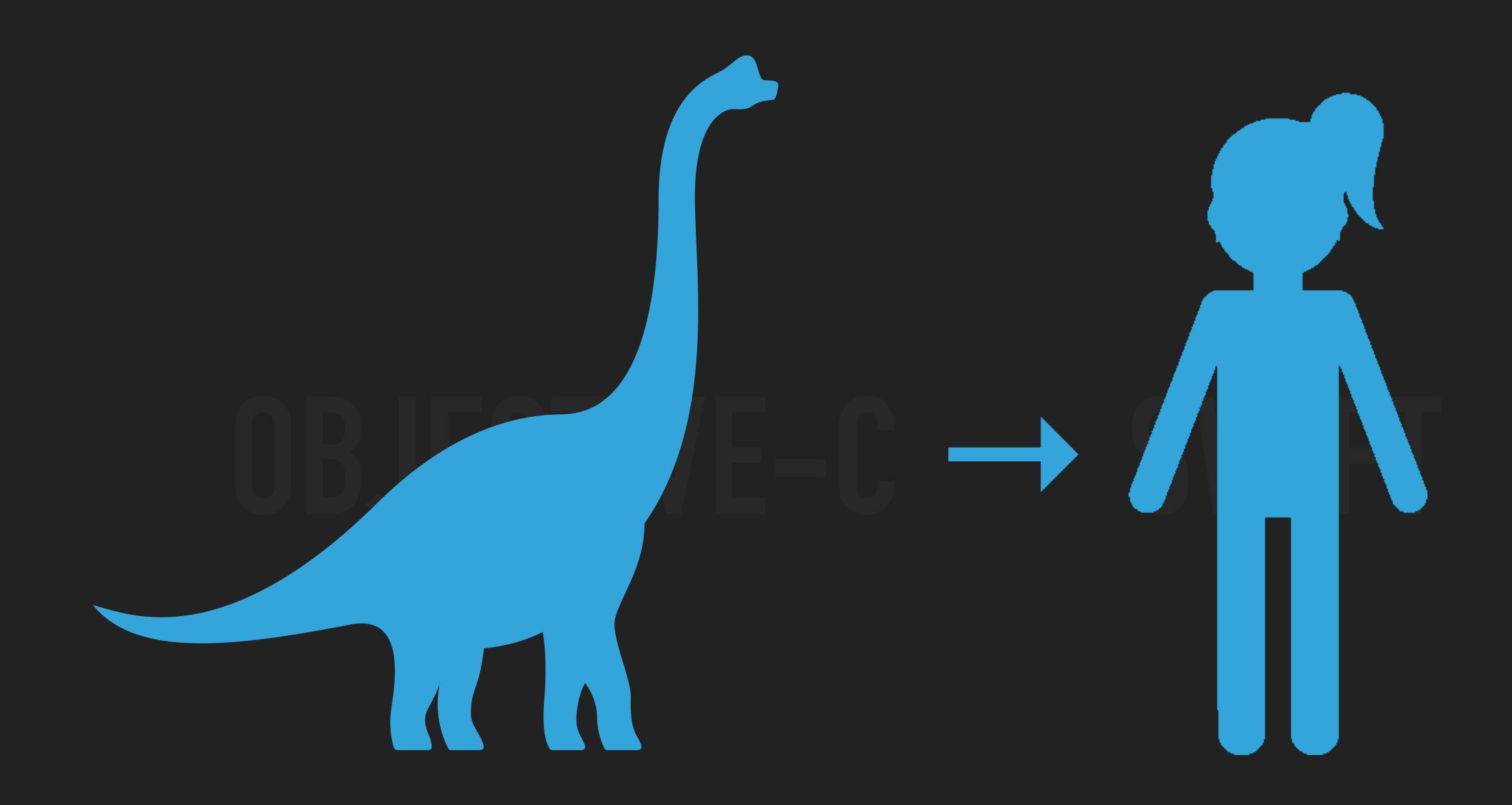
IN GENERAL,
I WOULD
SUMMARIZE THE
EXPERIENCE WITH
THIS PICTURE



@meghafon

TAMING A MIXED CODEBASE

SWIFT & OBJECTIVE-C



OBJECTIVE-C -> SWIFT

INTENTION & CLARITY

CLASS PROPERTIES

NS_ENUM

LIGHTWEIGHT GENERICS

NS_OPTIONS

INSTANCETYPE

PROPERTIES

NS_DESIGNATED_INITIALIZER

NULLABILITY

INTEROPERABILITY

NS_SWIFT_NAME

NS_TYPED_ENUM

NS_SWIFT_UNAVAILABLE

NS_TYPED_EXTENSIBLE_ENUM

NS_SWIFT_NOTHROW

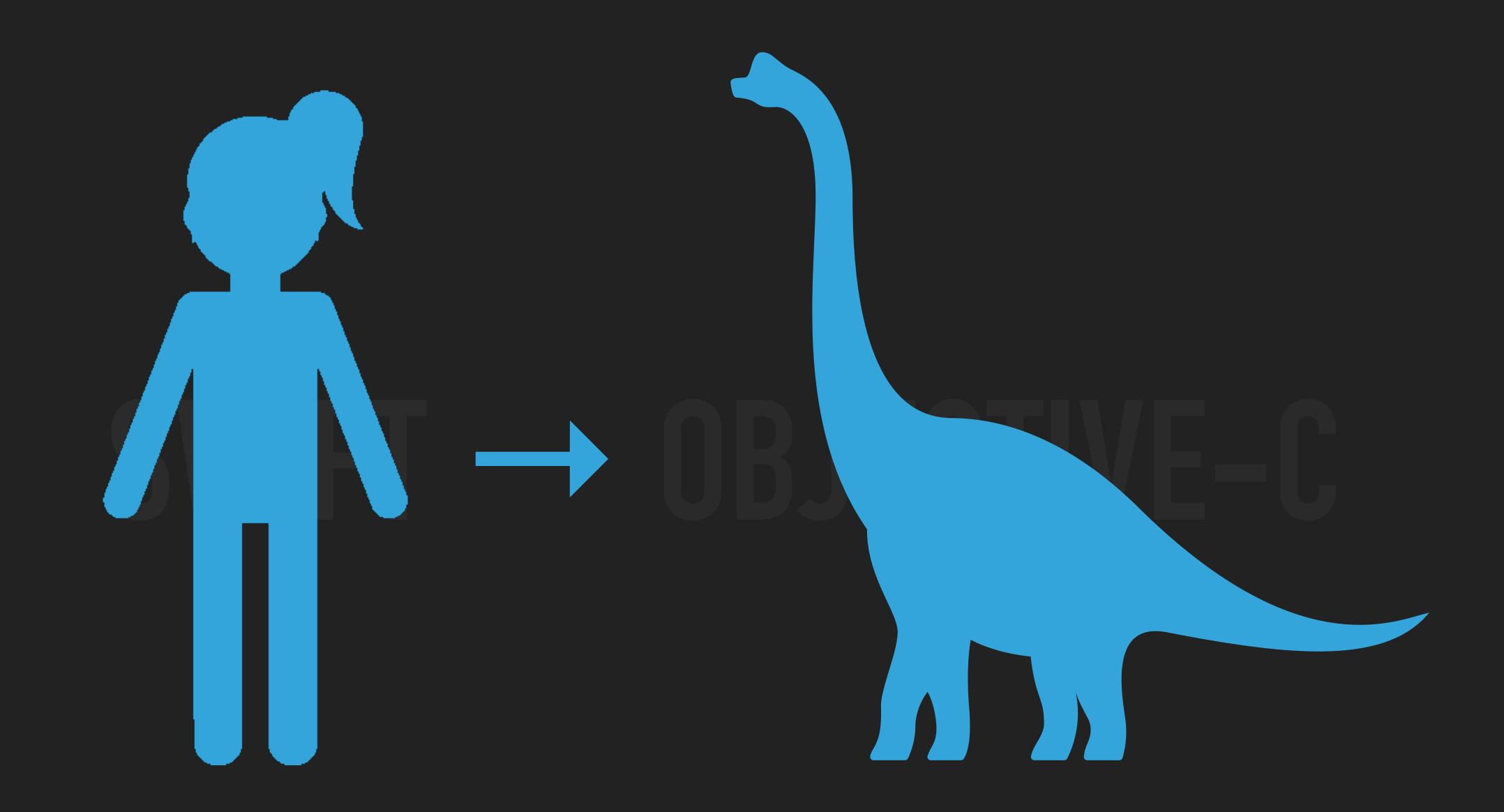
NS_REFINED_FOR_SWIFT

CONVENIENCE

```
#define var ___auto_type
#define let const ___auto_type
```

https://pspdfkit.com/blog/ 2018/first-class-swift-apifor-objective-c-frameworks/

Marcin Krzyżanowski



SWIFT -> OBJECTIVE-C

COOLIC CO

@objc(newName:)

"but what about my tuples, enums, structs?"


```
@objc final class NodeDraggingState: NSObject {
   enum Mode {
        case dragging(nodeIDs: Set<ObjectID>)
        case nodeCreation(viewModel: NodeViewModel)
    init(mode: Mode, location: CGPoint) { ... }
    @objc @available(swift, obsoleted: 1.0)
    convenience init(nodeIDs: Set<ObjectID>, location: CGPoint) {
        self.init(mode: .dragging(nodeIDs: nodeIDs),
                  location: location)
    @objc @available(swift, obsoleted: 1.0)
    convenience init(viewModel: NodeViewModel, location: CGPoint) {
        self.init(mode: .nodeCreation(viewModel: viewModel),
                  location: location)
```

```
enum Mode {
    case dragging(nodeIDs: Set<ObjectID>)
    case nodeCreation(viewModel: NodeViewModel)
init(mode: Mode, location: CGPoint) { ... }
```

```
@objc @available(swift, obsoleted: 1.0)
convenience init(nodeIDs: Set<ObjectID>, location: CGPoint) {
    self.init(mode: .dragging(nodeIDs: nodeIDs),
              location: location)
@objc @available(swift, obsoleted: 1.0)
convenience init(viewModel: NodeViewModel, location: CGPoint) {
    self.init(mode: .nodeCreation(viewModel: viewModel),
              location: location)
```

```
@objc @available(swift, obsoleted: 1.0)
Qobjc Qavailable(swift, obsoleted: 1.0)
```

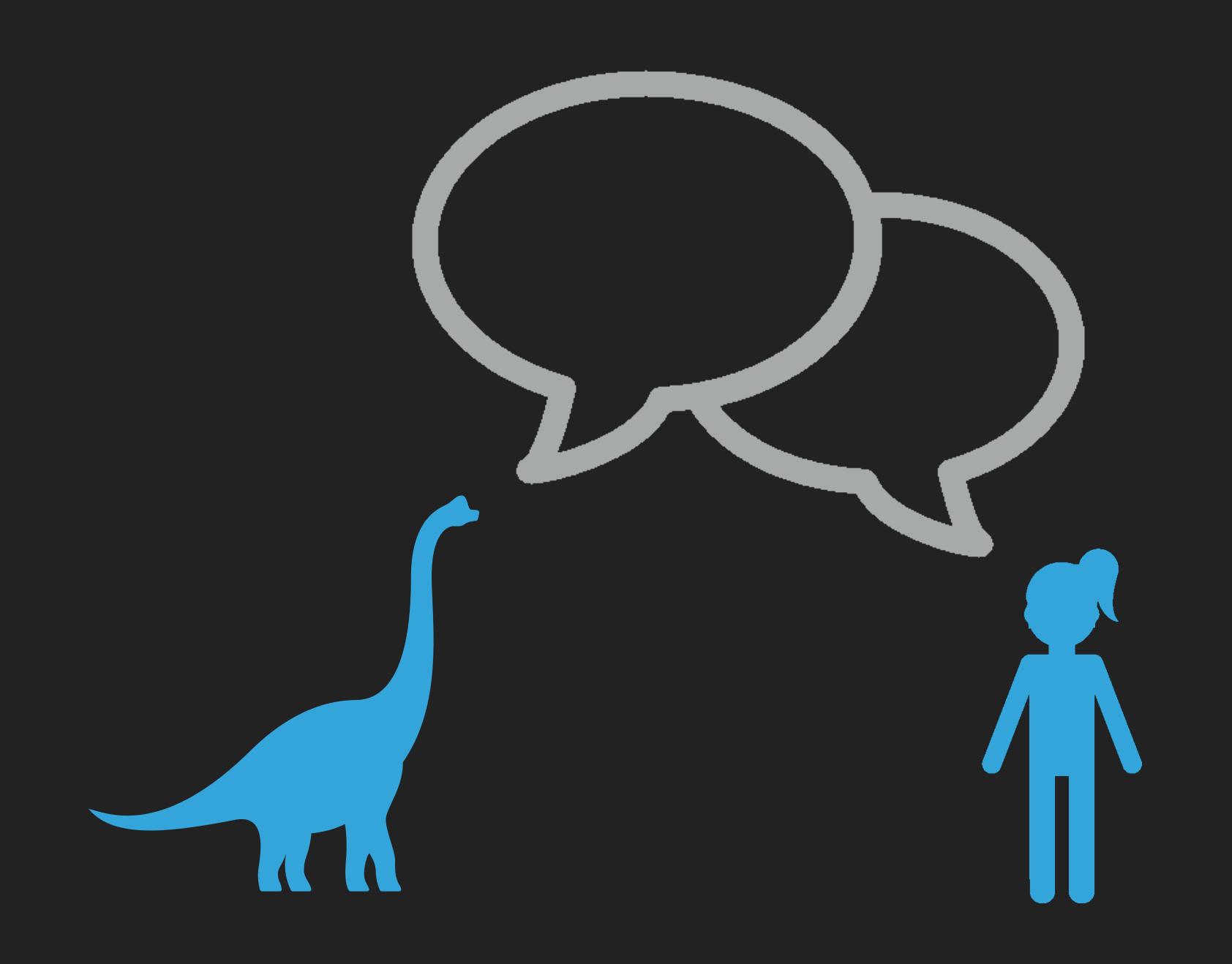
_ObjectiveCBridgeable

Non-optional Parameters

Bridging Casts from AnyHashable

```
class CustomEntry: NSObject { }
while true {
   let x = CustomEntry()
   let y: AnyHashable = x
   print(y as! CustomEntry)
}
```

```
class CustomEntry: NSObject { }
while true {
   let x = CustomEntry()
   let y: AnyHashable = x
   print(y as! CustomEntry)
}
```



@myell0w(.com)

THANK YOU