

PROJECT

Common Interoperability Challenges

A part of the iOS Developer Nanodegree Program

PROJECT REVIEW

CODE REVIEW 7

NOTES

Meets Specifications

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Nullability Annotations, Problems 1&2

- ✓ All properties in the `Sweatshirt` and `PlaneTicket` projects are annotated correctly, with either `_Nullable` or `_Nonnull`.

All properties in both projects are annotated correctly.

- ✓ All return types and parameters in the `Sweatshirt` and `PlaneTicket` projects are annotated correctly using either `_Nullable` or `_Nonnull`.

AnyObject, Preventing "unrecognized selector" errors, Problems 3&4

- ✓ The two runtime errors in `Animals_Swift` and one runtime error in `Toolbox` are avoided using either optional chaining or optional casting.

Making Swift APIs visible to Objective-C, Problems 5&6

- ✓ The `RegiftError` enum is of type `NSInteger`, conforms to the `ErrorType` protocol, no longer contains strings, and is marked with the attribute `@objc`.

```
/// Errors thrown by Regift
@objc public enum RegiftError: Int, ErrorType {
    case DestinationNotFound
    case AddFrameToDestination
    case DestinationFinalize
}
```

The error codes are also set to some integers, nice job.

- ✓ In the `Guitar_SwiftSpecific` project, all 7 errors have been fixed, the code compiles and runs

Processing Swift-style errors from Objective-C



Students have followed these steps in the `GuitarString` project:

1. Create an instance of the `GuitarString` class
2. Create an `NSError` object
3. With the `GuitarString` you created, call the method `pluck(velocity: Float)` - remember that it will have a different name once it has been translated to Objective-C.
4. Check if an error was returned
5. Log the error

All the steps have been followed and an error is logged after running the app.

Setting up a Mixed Language Project



Students have followed these steps in the `RPS_MixedLanguage` project:

1. "Build Settings" indicate that the project contains embedded swift code
2. All `.m` files that use `RPSTurn` have imported the required header file
3. All `.h` files that use `RPSTurn` have forward-declared the class

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7

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