

RESEARCH PROPOSAL

To: Manager
From: Chance Daniel, Intern
Date: 27 October 2015
Subject: Proposal for the Research of the Effectiveness of the Swift

Background

During my internship with you, last summer, I encountered difficulty in my project because I chose to develop in Swift. When I first began, I used Swift and was able to rapidly prototype my project, but I quickly found that the language was not yet ready to tackle large projects with existing code bases in Objective-C, let alone internal ones. Thus, I had to convert all of my work to Objective-C in order to move on.

Proposal

I would like to propose a research report about the effectiveness of Swift versus Objective-C and determine if the language is ready for Company to consider switching internal development to the newer language.

Statement of Opportunity

I learned the fundamentals of Swift when it was first released, and I know the basic differences between it and Objective-C, as well as some of the reasons to use one over the other. I propose further research into the technical details, nuances, and usability of Swift as our primary programming language since currently most, if not all, of our internal project are still written in Objective-C. I believe that in the future Swift will be used for all of iOS and OS X development, both internally and by third-parties; so I wish to gauge the readiness of Swift for replacing Objective-C to determine if we should begin making steps to make the switch.

Scope of Proposed Study

My research will explore:

- A cursory glance of what Swift is and how it works
- The major differences between Swift and Objective-C
- The pros and cons of switching to Swift
- The primary issues that will be encountered by switching to Swift

Methods and Data Sources

My research will be a combination of primary and secondary research. Primary research will consist of my investigations into Swift by using it in my own development projects as well as my past experience with the language. For secondary research, I plan on reading journal articles, blog postings, and the documentation on Swift provided by Company.

By the end of my study, **Sunday November 8th**, I will be able to make recommendations as to whether or not Swift is ready to be adopted as our primary language at Company. If you have any questions or suggestions for my research, do not hesitate to reach out to me at chance_daniel@company.com. Thank you for your support.

CC: None