Effective Cross-Platform Native App Development in Java

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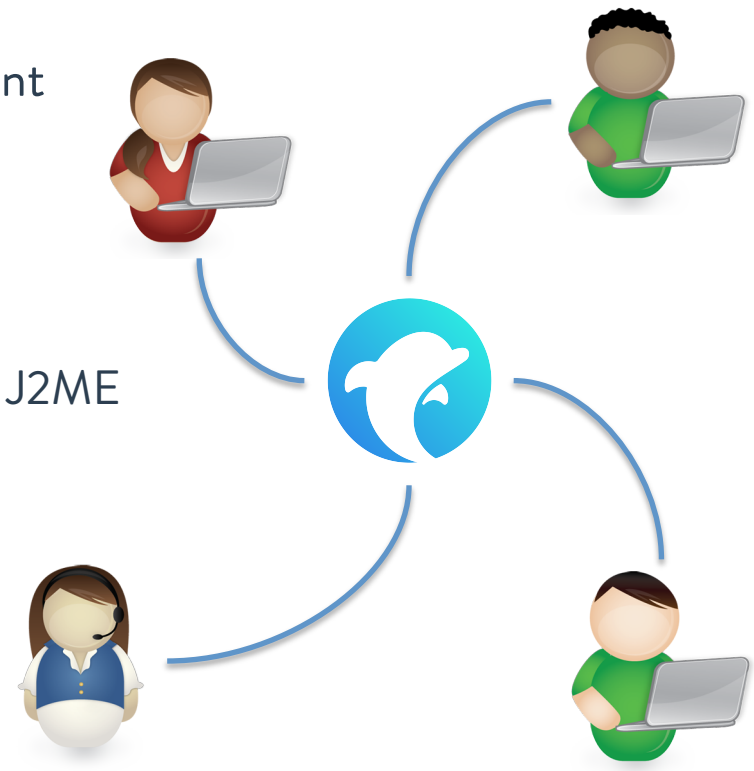
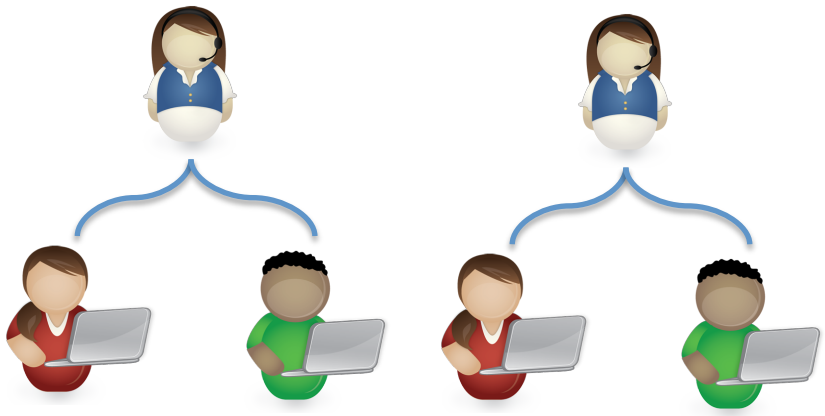
Introduction

- Started our company in 2007
  - Outsourced Software Development
- Diverse Projects
  - Mobile
    - App & Platform Development
    - Android, iOS, BB10, BB Classic, J2ME
  - Embedded Linux
    - C/C++, Assembly (ARM, MIPS)
  - Web / Server
    - Java EE
- Built on Teleworking

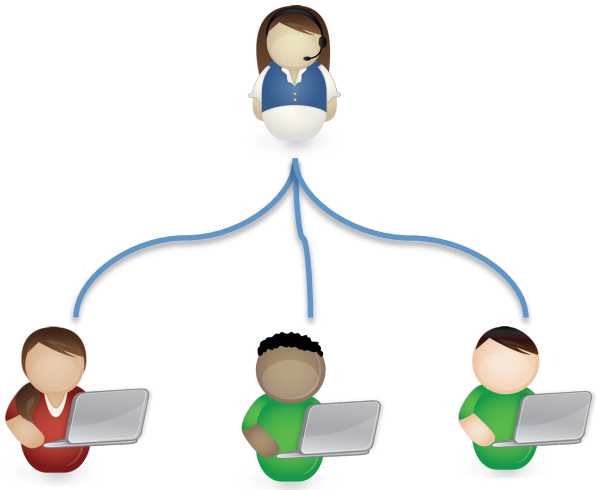


The Mobile Challenge:
Deploy the same app to other platforms

- Rewrite from Scratch
  - One team per platform
  - Develop, Test, Debug all over again
  - User Acceptance Testing Nightmare

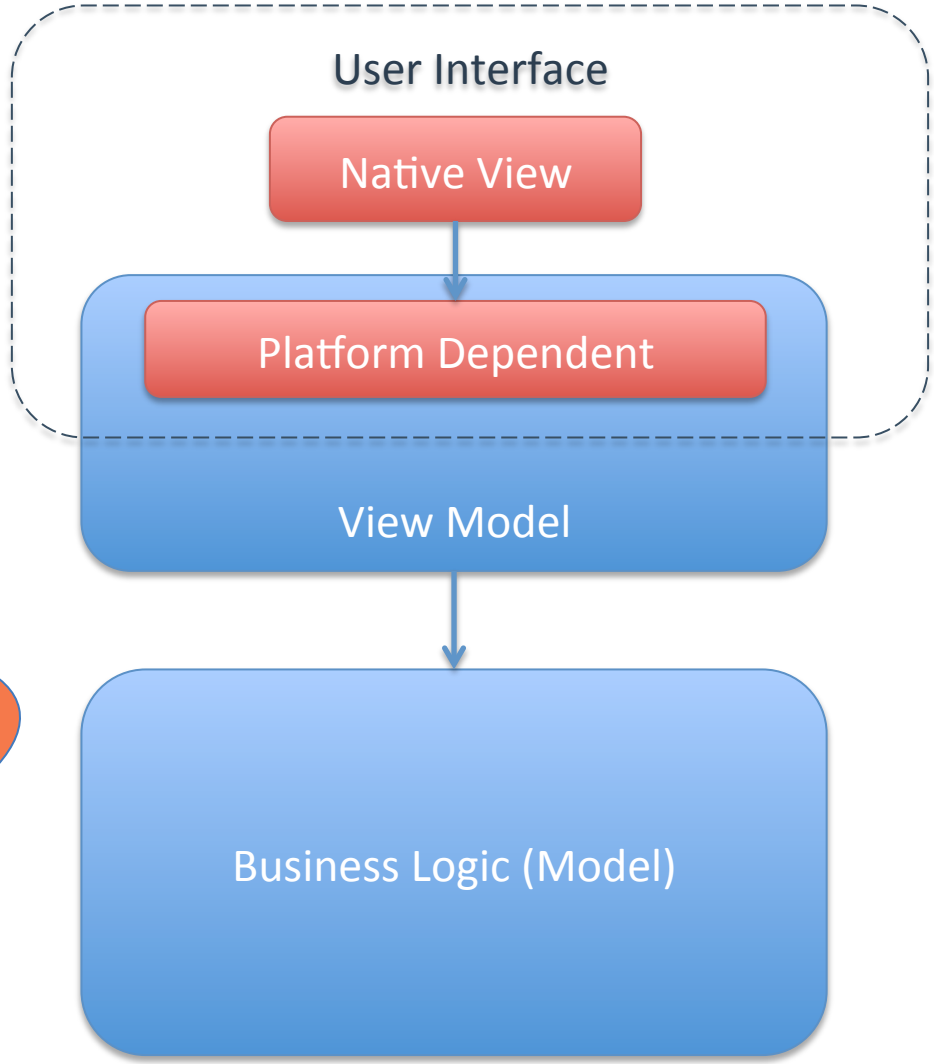


- Use Cross-Platform Solution
  - Which language?
  - What about existing code?
  - Cross-platform or native UI?



Our Choice: Use Java

- Most of our codebase is in Java
- Java is native on Android
- Native UI
  - After failed attempts with cross-platform UI



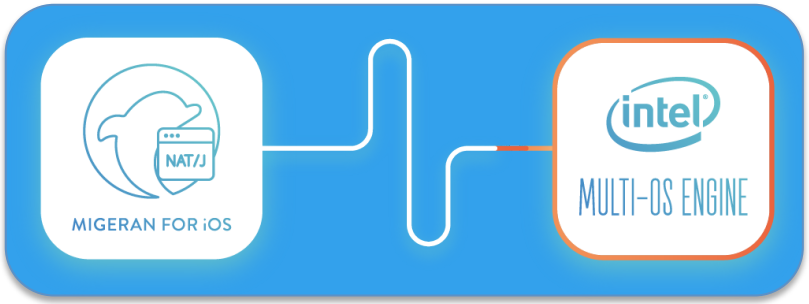
Migeran for iOS:
Make your Java Apps
Cross-Platform

Cross-Platform Alternatives

- JavaScript
  - Cordova / PhoneGap
  - Facebook React Native
  - Titanium
- C# / .NET
  - Xamarin
  - .NET on Windows
    - .NET Core Anyone?
- Objective-C / Swift
  - Apportable
  - Marmalade Juice
  - Elements Silver (Swift only)
- Java
  - RoboVM
    - Now Owned by Xamarin
  - Codename One

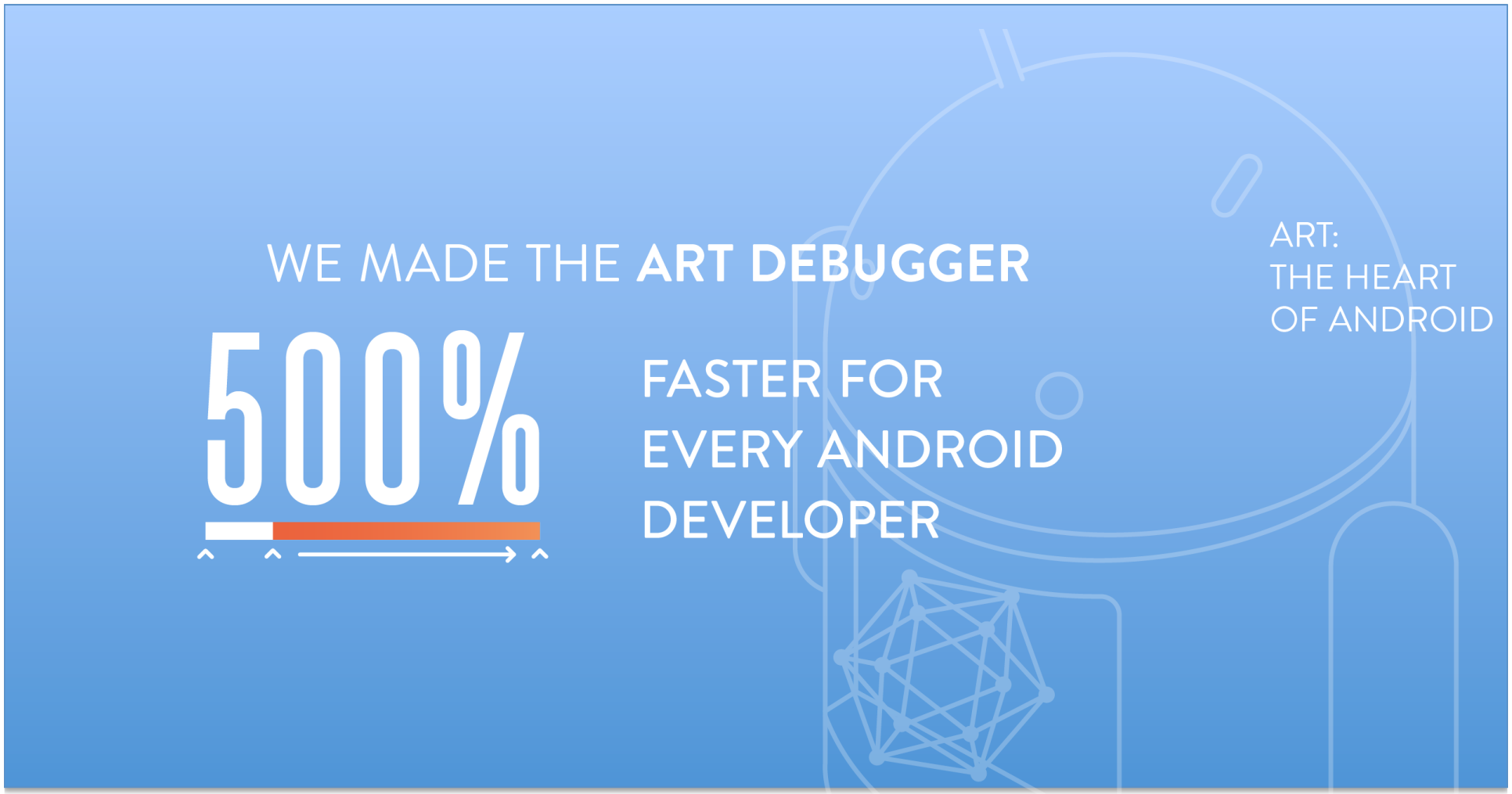
Migeran for iOS

Migeran for iOS acquired by Intel Corporation



Migeran is now an Intel Partner

While working on Migeran for iOS...



What is the Intel Multi-OS Engine

- Java Runtime for iOS
  - ART from Android

- Android Studio Plugin
  - Windows and Mac Supported

- Nat/J: Easy Native Access
  - Every iOS API
  - Binding Generator

Never Again, JNI!

- Native UI Designer
  - Android Studio
  - Xcode

Case Studies

- Graffiti VR
  - Google Cardboard App
  - Ported the Cardboard SDK to iOS

- CarHunt
  - Find Stolen Cars
  - Over 95% Code Reuse

Is Your Android App Ready for iOS?

FIND OUT WITH THE
MIGERAN ANALYZER
analyzer.migeran.com

- 3 Steps to Get Started
  - Upload your APK
  - Get detailed report in email
  - Start porting your App

Get Started with the Multi-OS Engine

- The Multi-OS Engine is now available as Technology Preview
- Get it at Intel Software

software.intel.com/multi-os-engine

Thank you for your attention!

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