



# Writing the Same Code Twice

Chris Jiang, Leo Kim, Katie Harold, Caroline Lawrence-Hovey, Lin Chen

# What is Code Sharing?

- Writing code once for two platforms
  - iOS vs Android
- Adapting code
- Open source community





## Pros

- Code is only written once
- Small team with intimate knowledge of code
- Consistent across platforms
- There are tools available for cross platform development



## Cons

- Usually more difficult
- Tools for cross platform development are nascent
- Need to find common compiler, or environment for all platforms
- May need to build additional system/platform architecture



## What's on the Market

- Ionic, Flutter, Xamarin..
- Google, Microsoft, Facebook
- Many more
- Not entirely perfect





## Failures



- Developed their own design library
- React Native is young
- JavaScript is Untyped



- Weak C++ community
- Platform Specific code unavoidable

## Successes

- React Native was made by Facebook to publish its apps across multiple platforms





## Conclusion

- Code sharing is useful for small projects with limited scope
- Currently, there are few good code sharing solutions for larger projects and Code sharing can be cumbersome for projects with larger scope
- The technology is developing to make code sharing easier and better for larger projects