



# Flutter for Mobile Application Development

June 25, 2020



Flutter

## Agenda:

- ❑ What is Flutter?
- ❑ Mobile app development and where Flutter fits in
- ❑ What make Flutter different from the competition?
- ❑ Dart



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## What is Flutter?

*Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.*

-(official Flutter website).



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## What is Flutter?

- ❑ Open Source UI Tool Kit -
  - ❑ Mobile - Android & iOS
  - ❑ Desktop
  - ❑ Web
- ❑ Developed by Google and released it under the New BSD Licence
  - ❑ Beta Release May 2017
  - ❑ Version 1 Release December 2018
  - ❑ Latest Release Version 1.17 May 2020



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## What is Flutter?

- ❑ Tools in the Kit -
  - ❑ Widget Sets Material Design, Cupertino and Custom
  - ❑ Plugins for VS Code and Android Studio
  - ❑ DevTools
  - ❑ Debuggers
  - ❑ Emulators
  - ❑ Build & Release Tools iOS & Android



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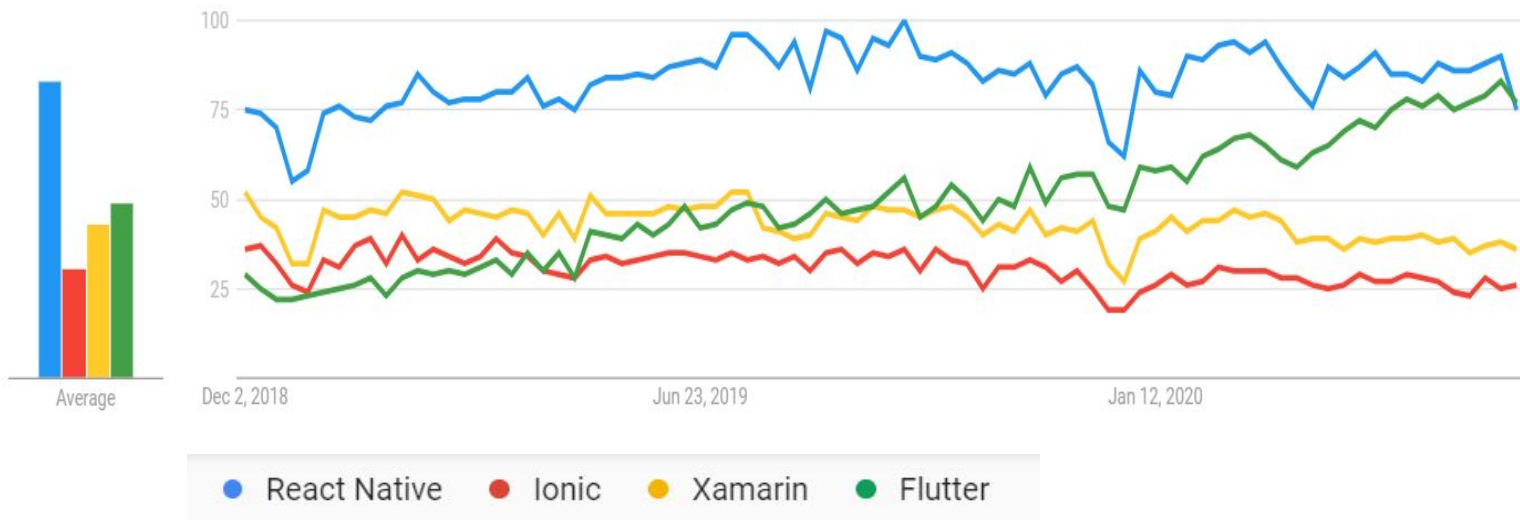
## Mobile App Development Options

- ❑ Native
  - ❑ Java/Kotlin - Android
  - ❑ Objective-C/Swift - iOS
- ❑ Cross Platform
  - ❑ Ionic - JavaScript/HTML/css
  - ❑ PhoneGap - JavaScript/HTML/css
  - ❑ PWA - JavaScript/HTML/css
  - ❑ React Native - TypeScript/ReactDOM nodes/css-like
  - ❑ Xamarin - C#/Xamarin Forms
  - ❑ Flutter - Dart



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## Google Trends - Interest





## What makes Flutter different?

- ❑ Compiled to native ARM code
- ❑ Does not use native UI widgets
- ❑ Interop Feature to work with native widgets if needed



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## Dart Programming Language

- C-Style syntax
- Object Oriented
- Class based
- Asynchronous Event
- Garbage Collection
- CodeLabs and Tutorials at [dart.dev](https://dart.dev)



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Questions?



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