



How to integrate Flutter into Native Android, and Why

Anky An

Agenda

- Why use Flutter for mobile app development
- Travello app demo
- Integrate Flutter into native Android
- Transfer data between Flutter and Android
- Summary

Issues with native app development

- One dedicated team for each platform
- Devs have to work on the same feature/logic twice (different platforms)
- Different implementations on both platforms
- Different bugs on different platforms and fix
- Non-consistent user experience
- Dealing with legacy architecture/features/bu
- Different capacities of the teams
- Hard to synchronise the releases
- ...
- ...
- ...
- **Slow and costly** development process



Benefits of cross-platform app development



What is Flutter

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



“Beautiful native apps in record time”

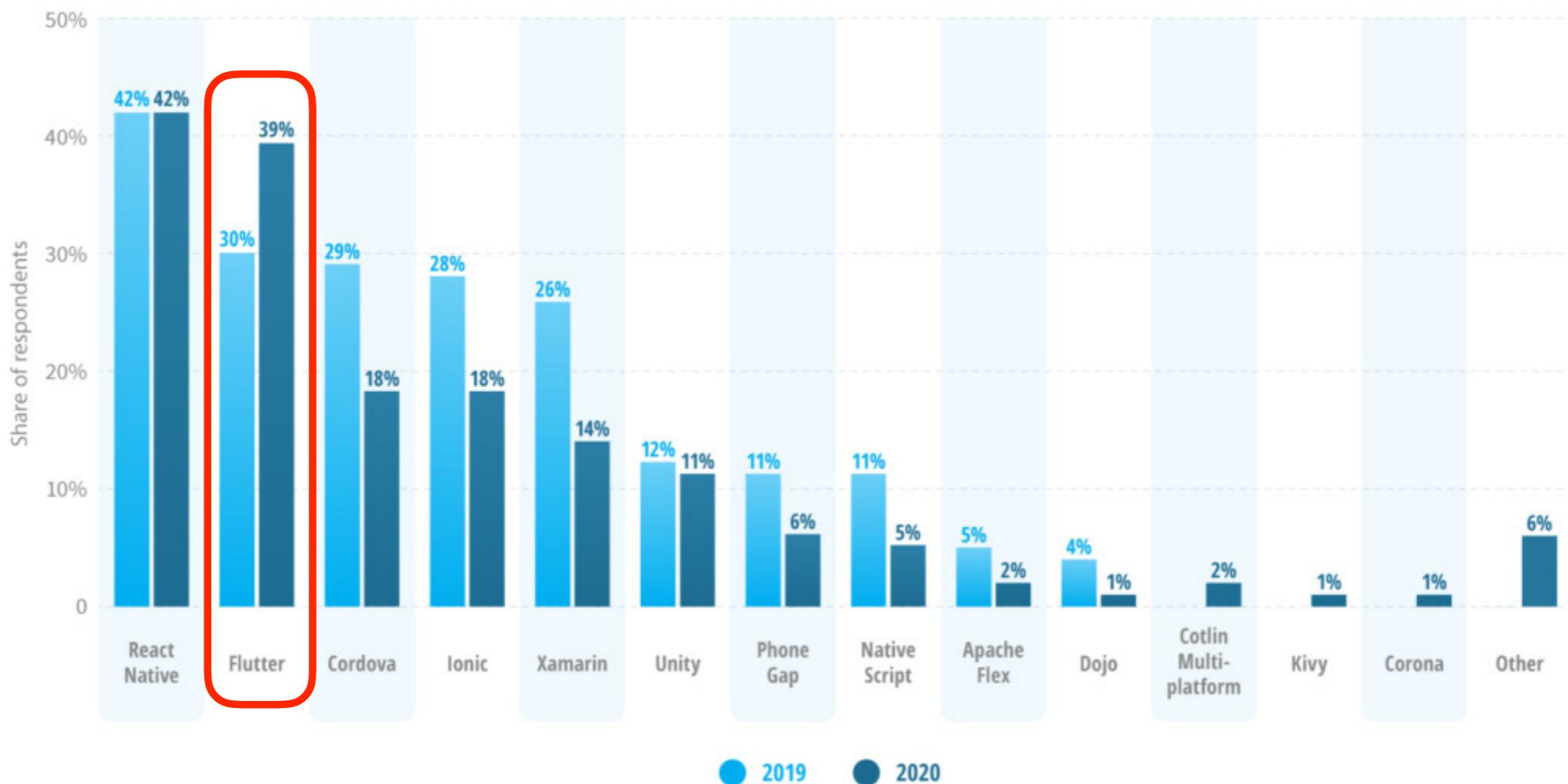
The Good about Flutter

- Native Performance - Compiles to native ARM code for high performance
- Low barrier to entry
- Hot reload
- A large community
- Flutter makes engineers more versatile



Strong Growth of Flutter

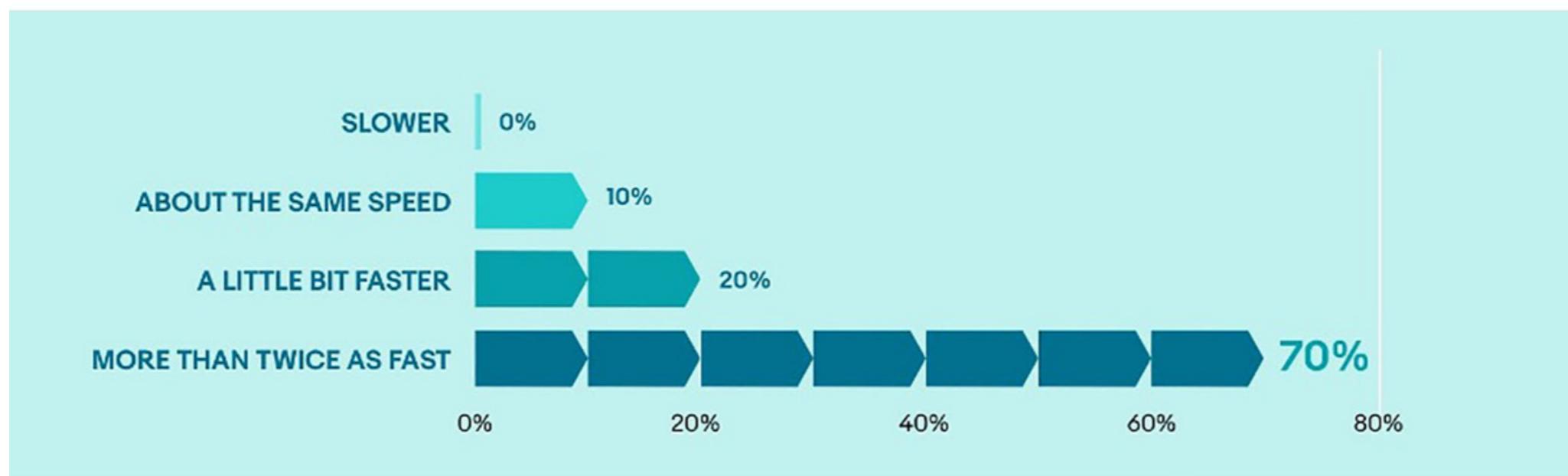
Cross-platform mobile frameworks used by software developers worldwide in 2019 and 2020



Source: Statista 2020

Development Speed

Compared to iOS/Android,
Flutter development is:



ebay

What happens when using Flutter

One Backlog



**1 Set of
Meetings**



**Synchronized
Releases**



**Problems Solved
Once**



**Single Source of
Truth for All Apps**



About my team

- Widgets
- Hot reload
- Everything is in one place
- Under resourced
- Happier when code with flutter





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Code Demo

- Integrate Flutter into native Android
- Communication between native and Flutter

Summary

- Flutter can be used to make beautiful native apps in record time
- Devs code with Flutter are generally happier and more productive.
- Mobile teams can start using it for new features, and gradually transition to complete Flutter
- Most teams transitioned with their native app developers getting trained to code in Flutter
- Early stage in the transition may be slow but productivity will skyrocket afterwards

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