

Intro to hybrid apps with Ionic

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DBM

<https://www.meetup.com/Design-Build-Market/>



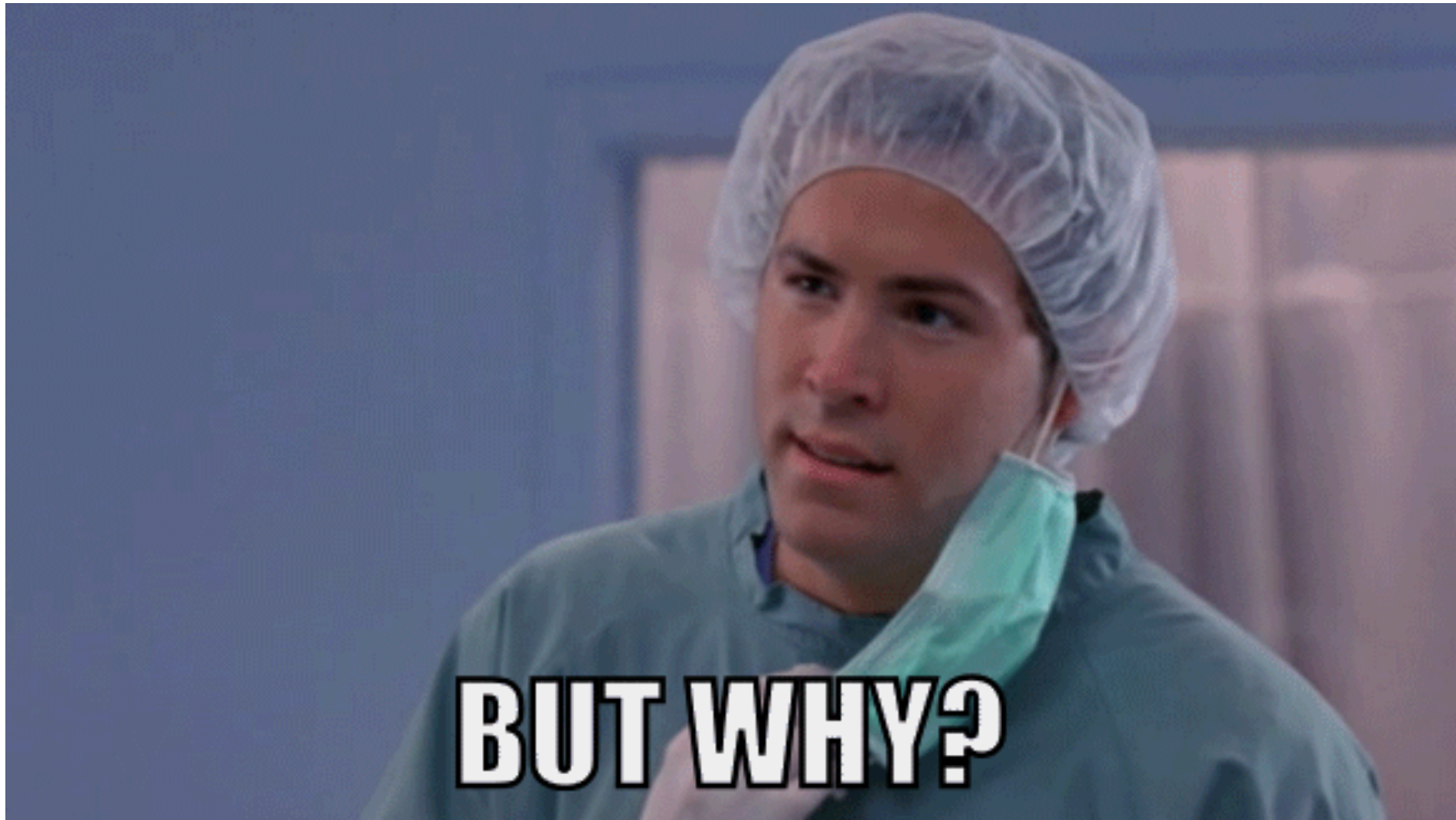
What is a hybrid app?

Apps built with web technologies and wrapped in a native container that provided access to the native API on the platform.



Whats the catch?

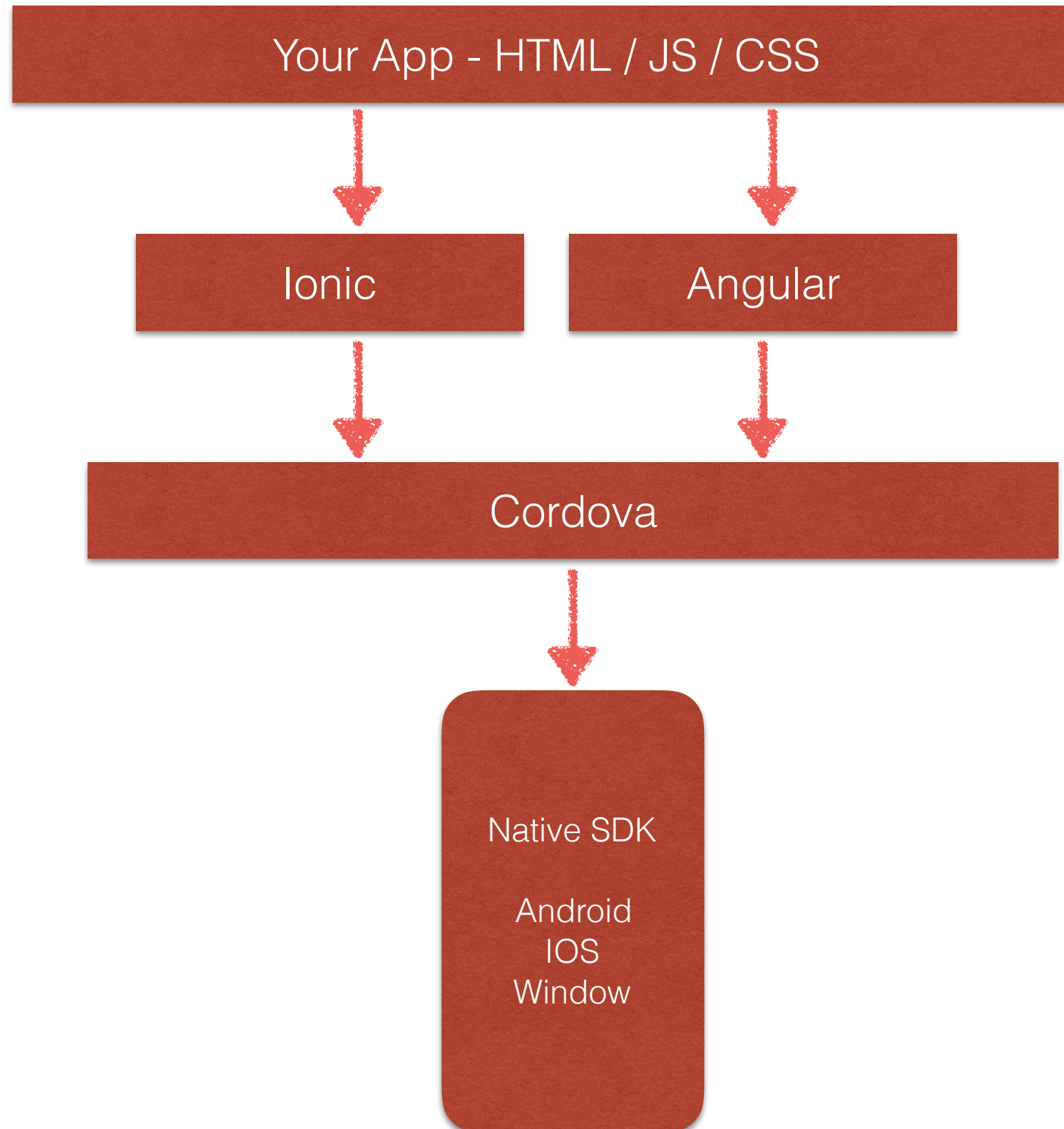
- Slower than Native apps
- Can be a lot less secure
- Graphics are processed slower and not smoothly
- Can tend to use more resources e.g. battery, storage

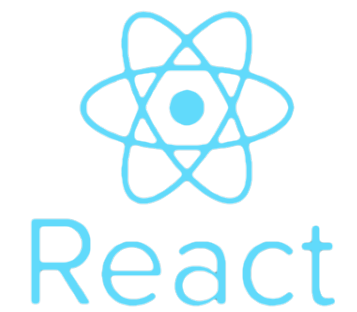


Why Hybrid?

- Use familiar web technologies such as HTML, CSS, and JavaScript
- Simpler and rapid development process
- Target multiple platforms with a single code base
- Easier to maintain the code base

Hybrid Architecture





Why Ionic?



Why Ionic?

- Wide range of tools and services that eases development
- Concise but comprehensive documentation
- Great online community with friendly and helpful people
- Growing marketplace with paid and free themes, plug-ins and starter apps
- FREE AND OPEN SOURCE!!



Storage Options

WebSQL

- Provides a way to store data in a structured database
- Data can be queried using SQL
- Available on both Android and IOS
- Data can be indexed which provides good performance
- WebSQL is however deprecated

SQLite

- You can store an unlimited amount of data and use SQL syntax to query the data
- Each app will have its own database
- This only works on mobile apps and not on websites

Native Storage

- This is a persistent storage like and SQL each app will have it's own database
- It's simple and fast storage which is available on all the platforms Ionic supports
- Unlike SQLite it isn't unlimited, it has a max size

Local Storage / Web Storage

- A simple non-relational database
- This is unreliable, as you could lose the data at anytime
- Has a 5 MB data limit which can be extended to 25 MB
- Can only contain strings, all other types of data has to be serialised - this can impact performance.
- Available for web sites

IndexedDB

- It's uses no-SQL as a collections of objects-stores
- It's a lot more flexible
- Versioning of data
- Doesn't fully work on windows.
- Ability to index data makes it better performant than other options

Resources

<https://www.cookieshq.co.uk/posts/native-apps-vs-mobile-apps-how-to-choose>

<https://market.ionic.io/>

<https://forum.ionicframework.com/>

<http://ionicframework.com/getting-started>

<https://github.com/candelibas/awesome-ionic>

Questions?