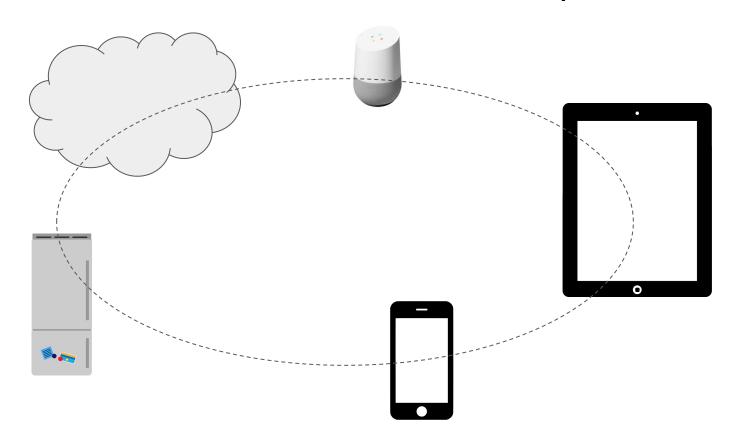
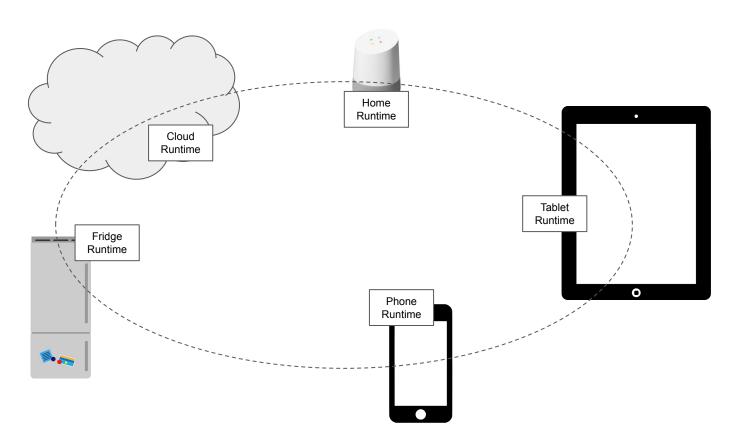
# Arcs

Architecture Fever Dream

# Part of the Arcs dream is multi-device experiences

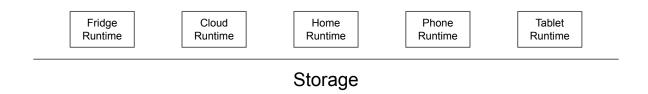


#### Each device hosts its own Runtime

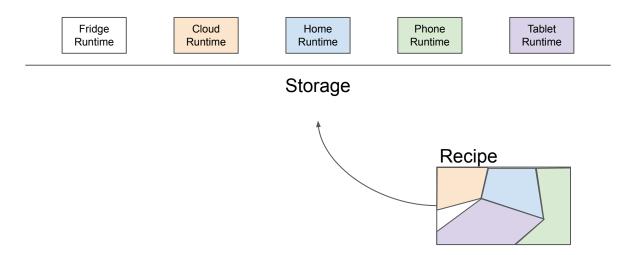




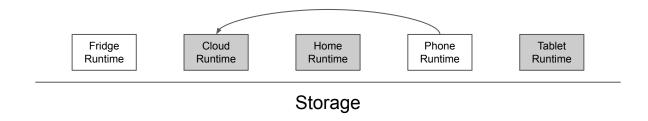
Storage



We've seen this work really well for multi-device arcs where the Runtimes are already established, but there are two open questions we haven't yet solved.



1. How do recipes get distributed across potential Runtimes?

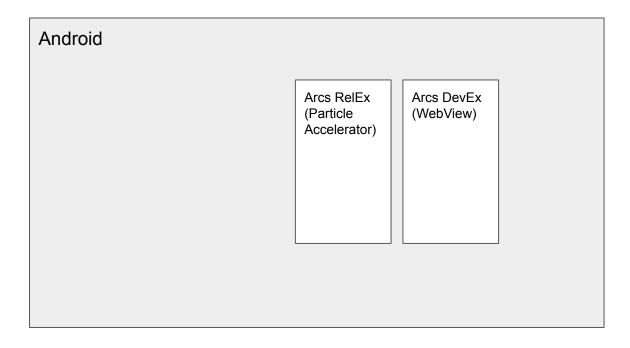


2. How can Runtimes suspend themselves and be awoken in response to Arc changes?

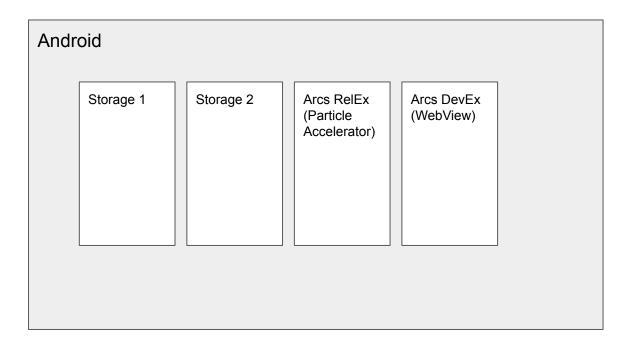
# Intermission

Let's take a brief look at Android

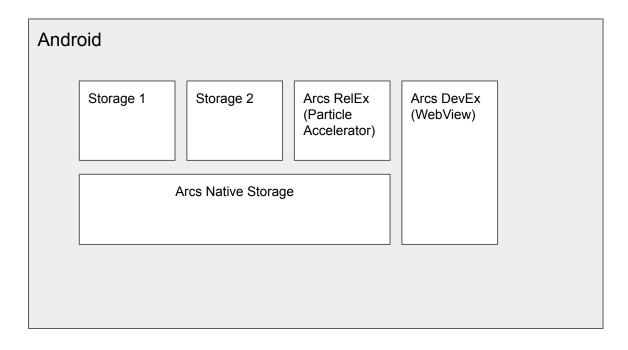
There's a Developer Experience and a Production Experience...



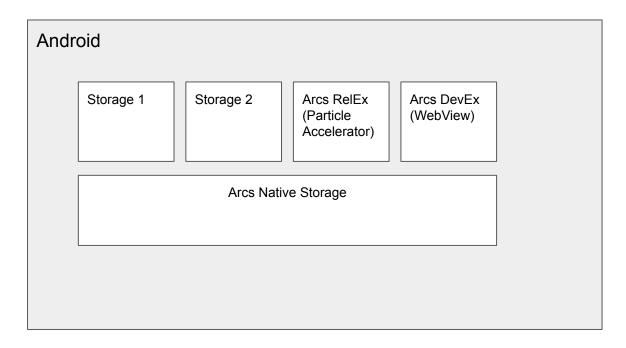
We've talked about different native features that provide active storage...



Eventually we want these backed by Arcs Storage

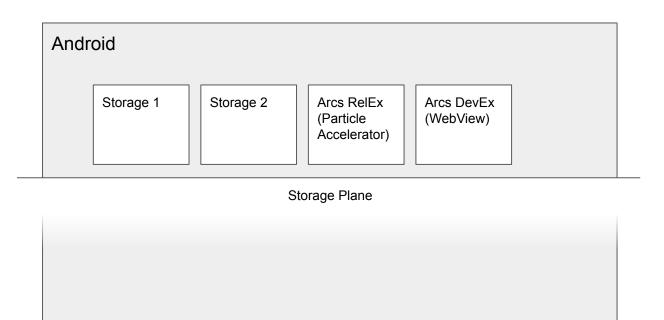


Ideally, that storage will replace the WebView storage engine too



This picture is starting to look familiar.. and matches intuition about eventual

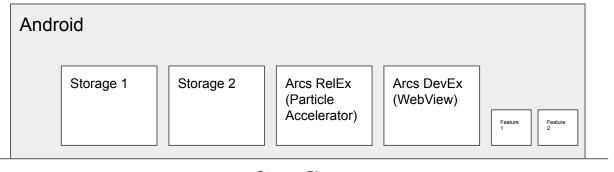
multi-device support



# Can Android feature particles do the same thing?

#### What would this look like?

- Android services "are"
   Runtime environments
- .. but they would really only need to act like Runtime environments from Arcs' perspective

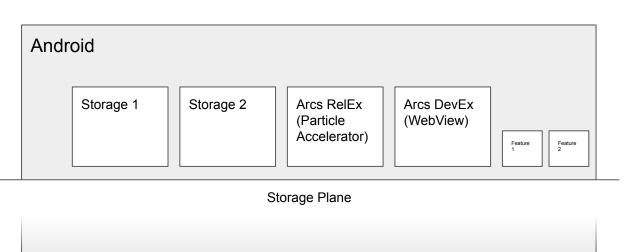


Storage Plane

# What problems would we need to solve?

- How do we tell each
   Runtime which particles to run?
- 2. How do we know when to "wake up" a suspended service if it needs to do some processing for an Arc?

These are the same problems we identified above



#### Conclusions

 We can build our Android environment in a way that lets us provide simple solutions to problems we know we have.

We don't need to build new complex architectures.

Fever dreams are fun.