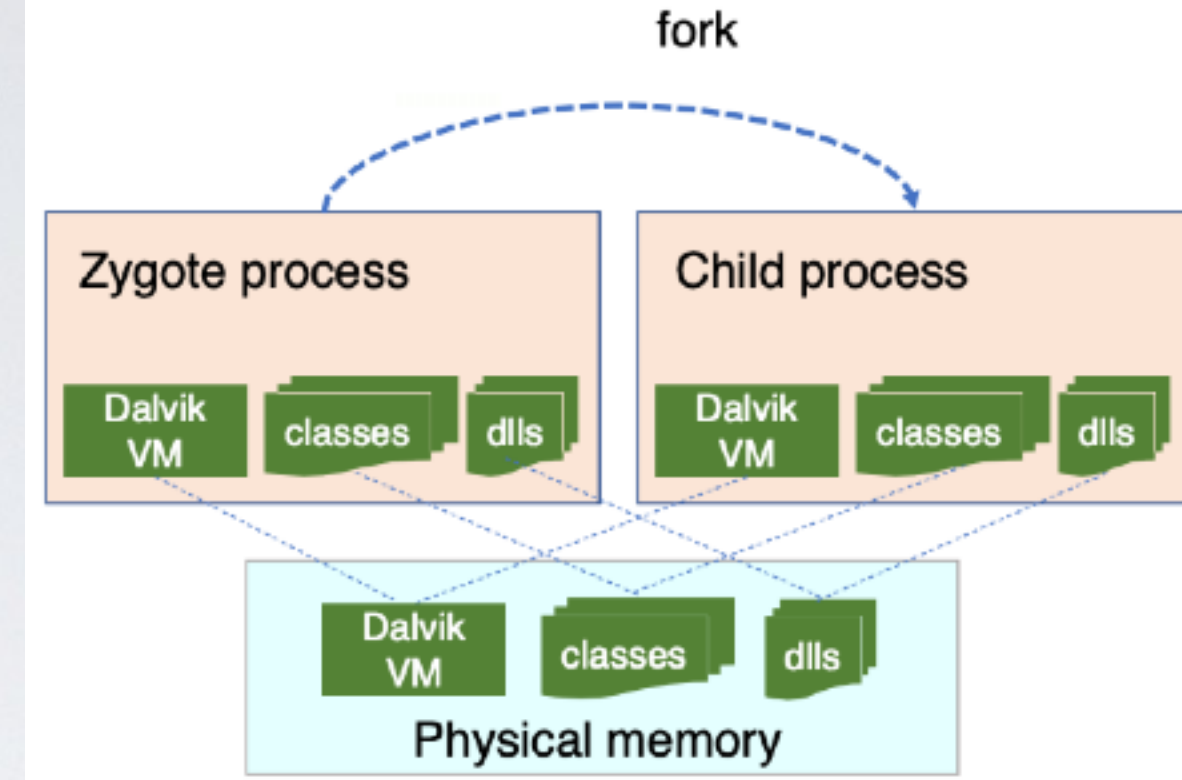


Android process creation



All Android apps derive from a process called Zygote

- Zygote is started as part of the init process
- Preloads Java classes, resources, starts Dalvik VM
- Registers a Unix domain socket
- Waits for commands on the socket
- Forks off child processes that inherit the initial state of VMs

➔ Uses Copy-on-Write
only when a process writes to a page will a page be allocated

Java API framework

The main Android OS from app point of view

- Provide high-level services and environment to apps
- Interact with low-level libraries and Linux kernel

Some components

- Activity Manager - manages the lifecycle of apps
- Package Manager - keeps track of apps installed
- Power Manager - wakelock APIs to apps