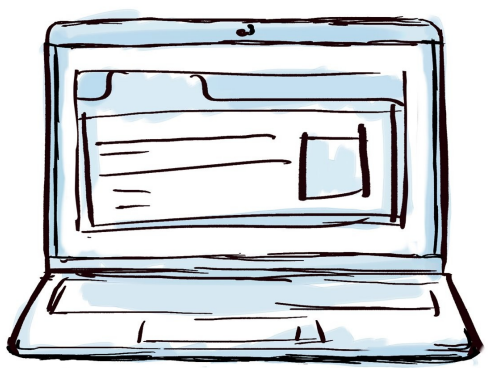
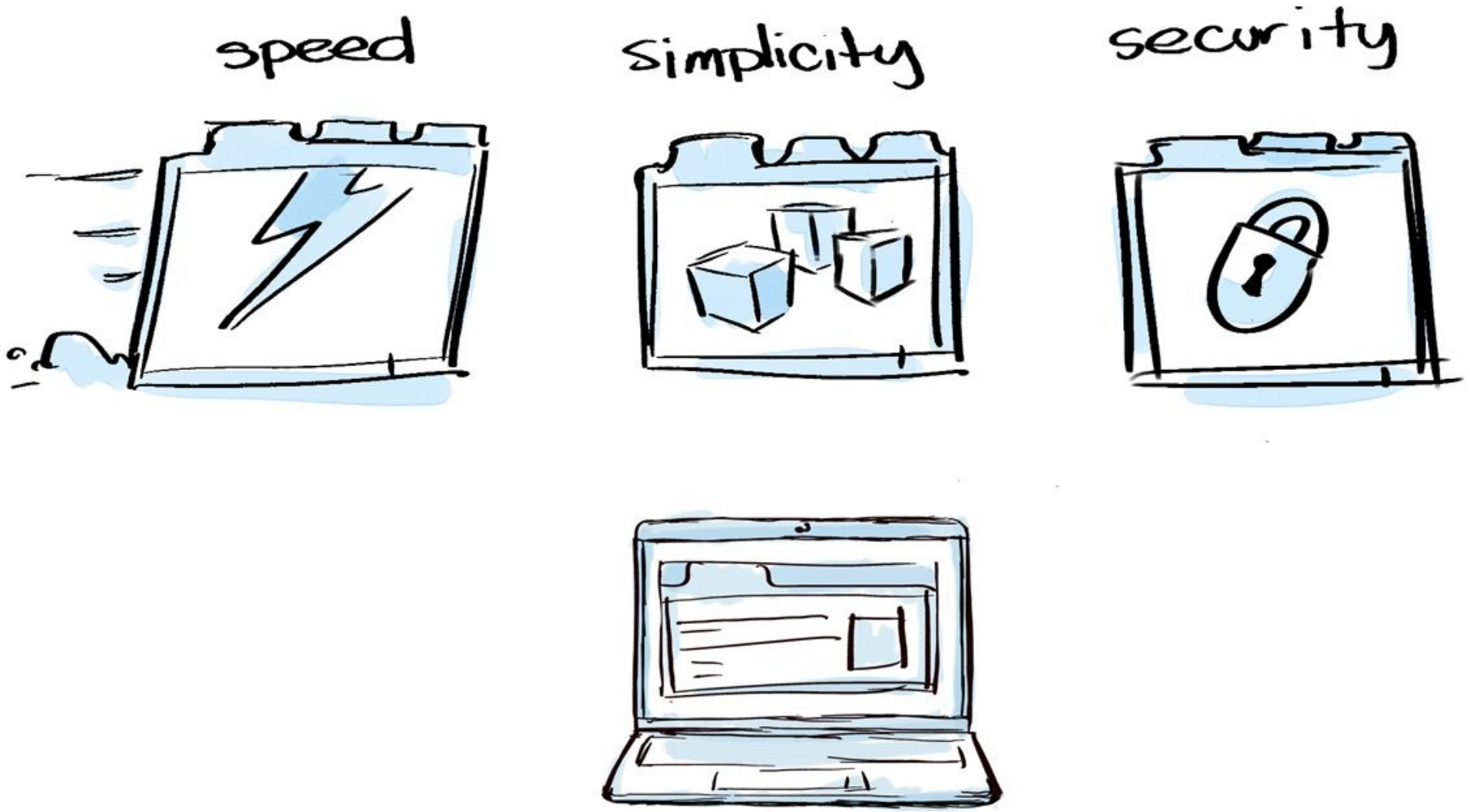


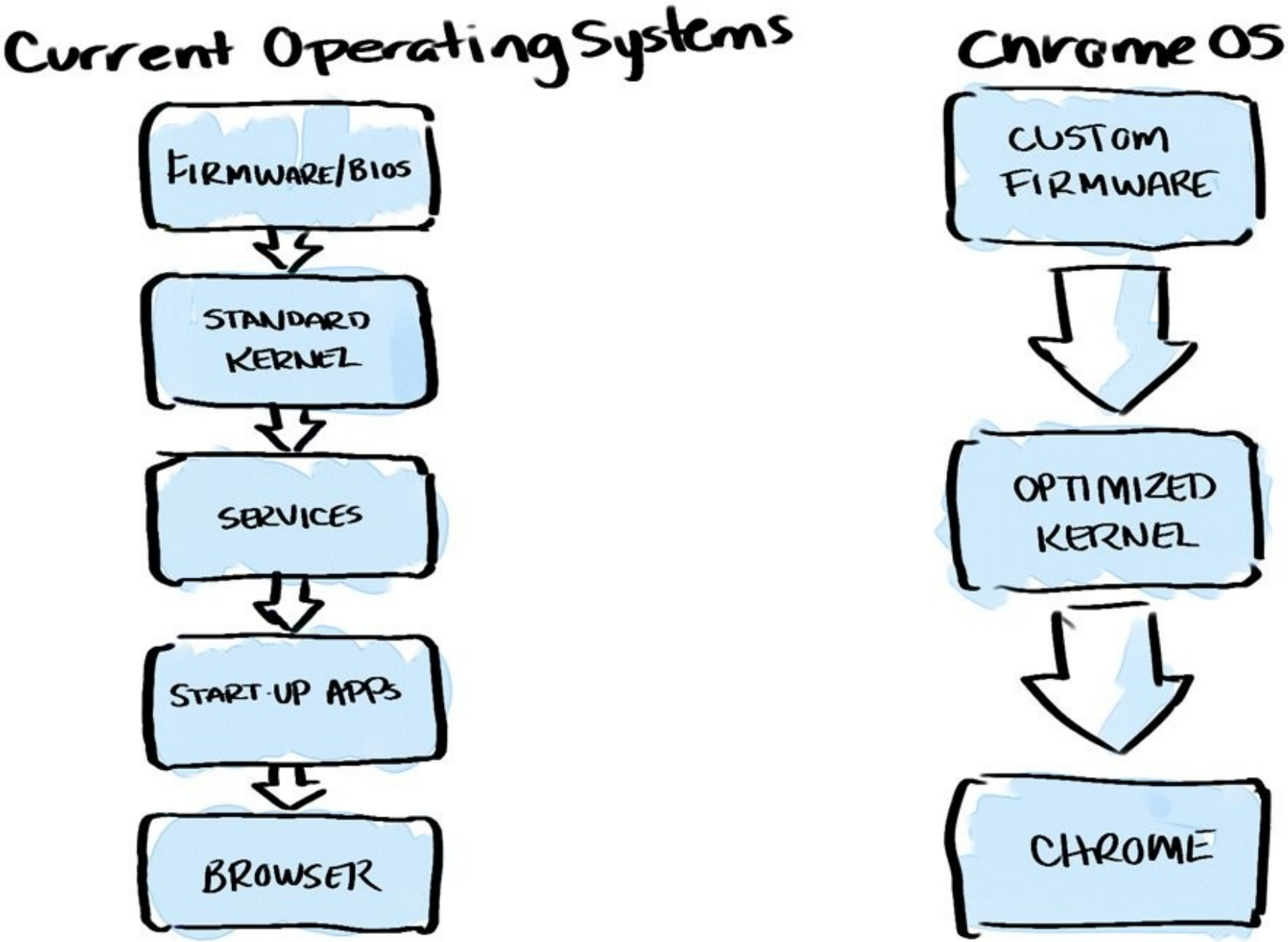
A Safe and Stateless Platform -

Introduction to Google Chrome OS Security model

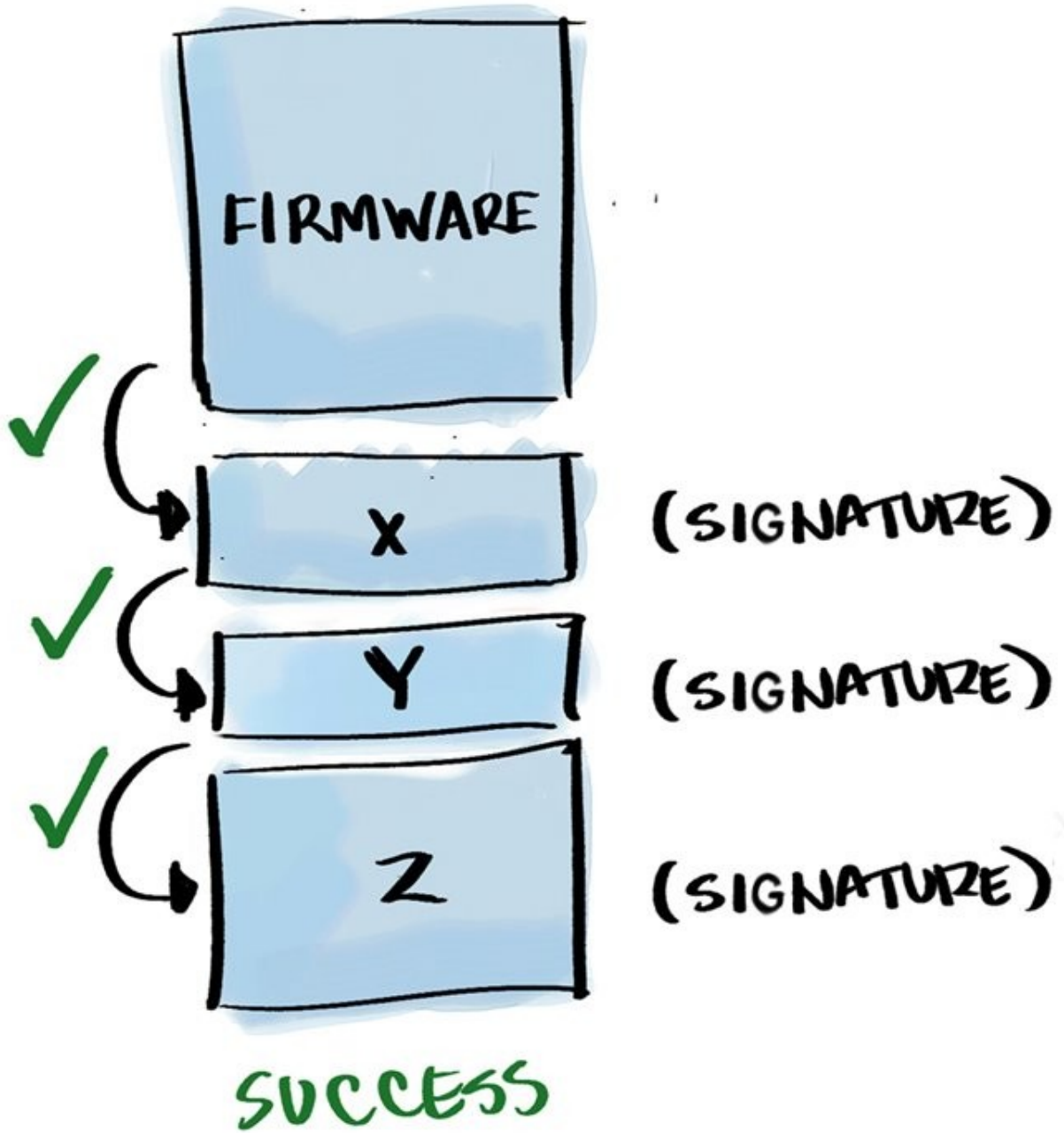
Google Chrome OS



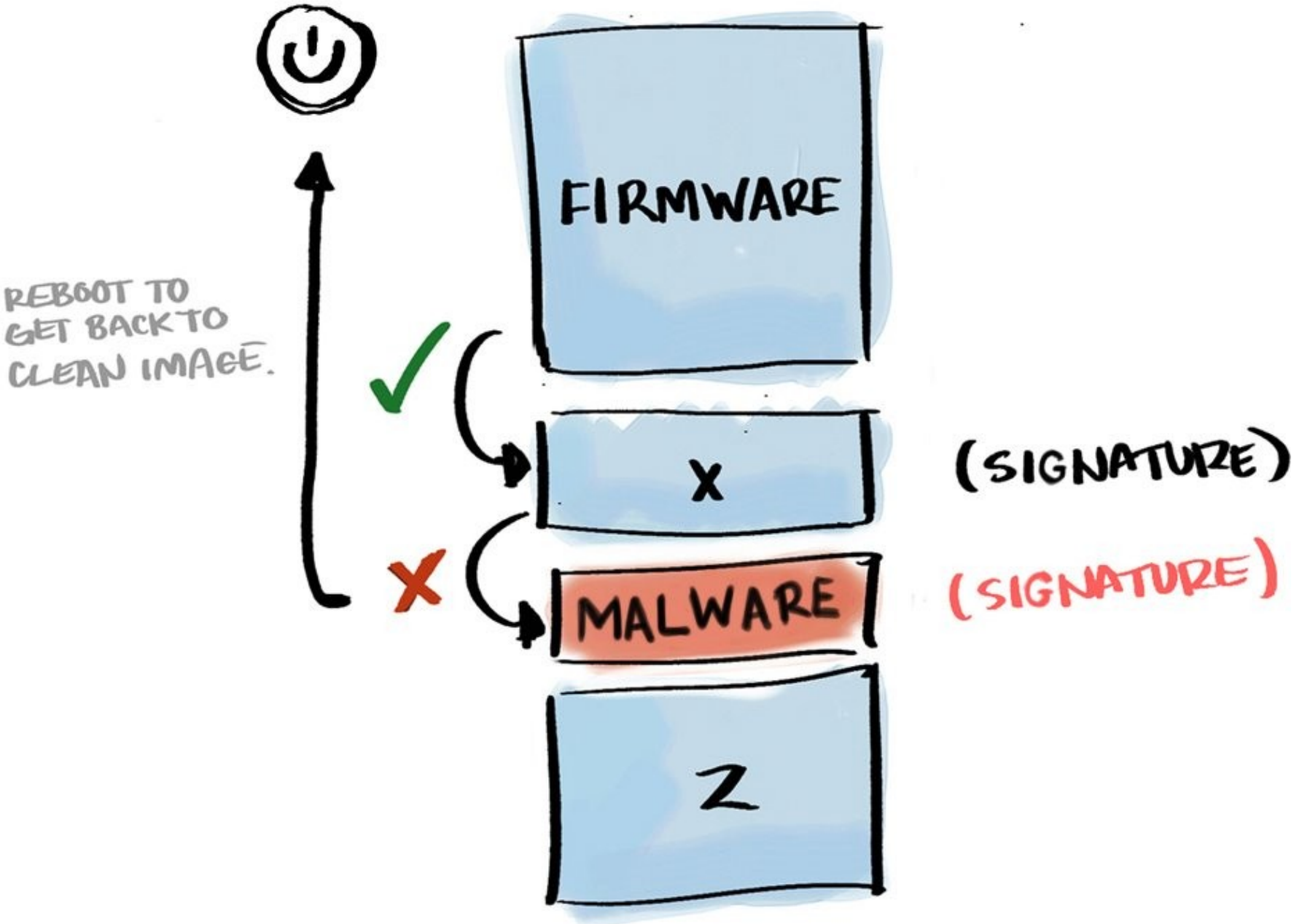
Speed


Current Operating Systems
FIRMWARE/BIOS
STANDARD KERNEL
SERVICES
START-UP APPS
BROWSER
Chrome OS
CUSTOM FIRMWARE
OPTIMIZED KERNEL
CHROME

Security - Verified boot



Security - Reboot to recover



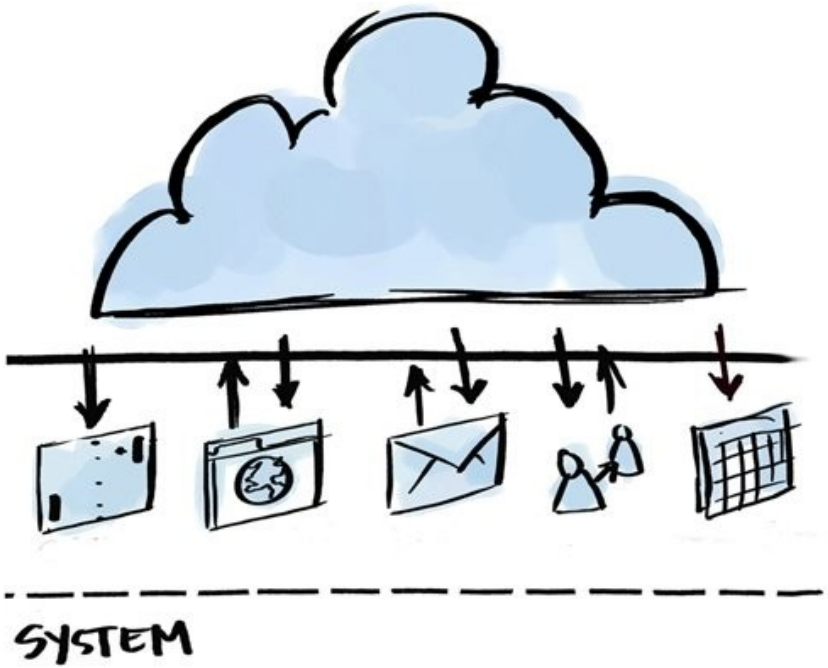
Security for the internet age

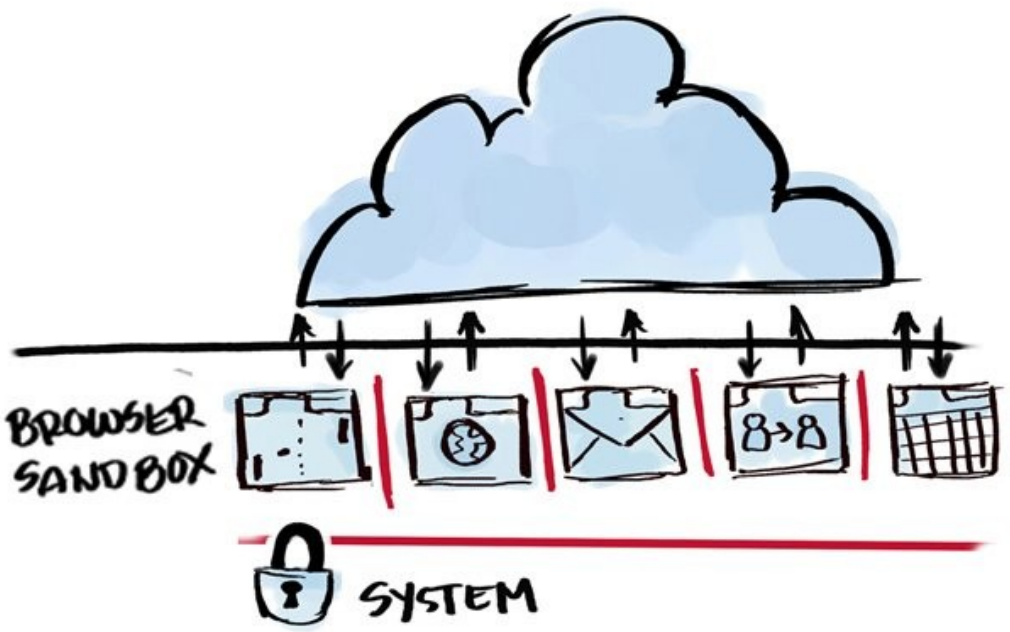
Current Operating Systems

- Apps have the same privileges and power as you

Chrome OS

- All apps are web apps
- The OS does not trust any app





Security down the stack

- Small list of known programs
  - Signed and verified before each use
- Run in secured sandboxes
  - Chroot, Namespaces
  - Toolchain, Stack protection
- File system is locked down
  - Read-only root file system
  - User data encryption
  - User data synced to the cloud
- Automatic updates for the entire OS

Chrome OS is open source

- Open development
- Community contributions