adb (Android Debug Bridge) Android device control

CONCEPTS

adb is a client talking to a server on host port 5037, which talks to adbd on each device. If a device acts up, restart the server.

adb client your command
↓ TCP 5037
adb server on the host
↓ USB or TCP
adbd on the device

DEVICES & SERVER

`adb devices -l`
List devices with model and product

`adb -s <serial> <command>`
Target one device

`adb kill-server`
Stop the adb server

WIRELESS

`adb pair <ip>:<port>`
Pair with a code (Android 11+)

`adb connect <ip>:<port>`
Connect over Wi-Fi

APPS

`adb install <apk>`
Install an APK

`adb install -r <apk>`
Reinstall, keep data

`adb uninstall <package>`
Remove an app

`adb shell pm list packages`
List installed packages

`adb shell pm clear <package>`
Wipe app data

ACTIVITY MANAGER

`adb shell am start -n <package>/<activity>`
Launch an activity

ACTIVITY MANAGER (cont.)

`adb shell am start -a android.intent.action.VIEW -d <uri>`
Open a URL or deep link

`adb shell am force-stop <package>`
Stop an app

FILES & SHELL

`adb shell`
Interactive device shell

`adb shell <command>`
Run one command on the device

`adb push <local> <remote>`
Copy a file to the device

`adb pull <remote> [<local>]`
Copy a file from the device

LOGS & DEBUGGING

`adb logcat`
Stream the log

`adb logcat -c`
Clear the log buffers

`adb logcat -d`
Dump the log and exit

`adb logcat -s <tag>`
Show only one tag

`adb logcat <tag>:<level> *:S`
Filter by tag and priority

`adb shell dumpsys <service>`
Dump a system service state

SCREEN & INPUT

`adb exec-out screencap -p > <file>.png`
Take a screenshot

PORTS & POWER

`adb reboot`
Reboot the device