Android Debug Bridge Cheat Sheet

Selecting a device

`adb devices`	List of devices by serial number.
`adb devices -l`	List of devices by product/model.
`adb -s <serial> ...`	Command line selection.
`export ANDROID_SERIAL=<serial>`	Env. variable selection.

If a command starts with $ it has to be run from the Android shell or via `adb shell <command>`, or even better `adb shell <command> | less`.

Package installation

`adb install <apk>`	Installs app.
`$ pm install <path>`	Install app from phone path.
`$ pm install -r <path>`	Reinstall app from phone path.
`$ pm uninstall <name>`	Remove the app.
`$ pm get-install-location`	Install location: `0` - Auto `1` - Internal `2` - External

Package info

`$ pm list packages`	List package names.
`$ pm list packages -f`	As above + path to apks.
`$ pm list packages -3`	Only third party packages.
`$ pm list packages -s`	Only system packages.
`$ pm list packages -u`	Also uninstalled packages.
`$ dumpsys package packages`	List info on all apps.
`$ pm dump <name>`	List info on one package.
`$ pm path <package>`	Path to the apk file.

Permissions

`$ pm permission groups`	Permission groups definitions.
`$ pm list permissions -g -f`	List permissions details.

File operations

`adb push <local> <remote>`	Copy file/dir to device.
`adb pull <remote> [<local>]`	Copy file/dir from device.
`adb backup -f <file>`	Backup the phone.

If you want to access the private package files just use `run-as <package> cat <file>`.

Paths

`/data/data/<package>`	App data, as described below.
`databases/`	App databases.
`shared_prefs/`	Shared preferences.
`/data/app`	APK files installed by user.
`/system/app`	Pre-installed APK files.
`/mnt/asec`	Encrypted apps (App2SD).
`/mnt/emmc`	Internal SD Card.
`/mnt/sdcard`	External/Internal SD Card.
`/mnt/sdcard/external_sd`	External SD Card.

Phone info

`$ sqlite3 /data/data/com.android.providers.settings/databases/settings.db .dump` Dump phone settings.

`$ getprop`	Get properties (e.g. model).
`$ dumpsys iphonesubinfo`	Get the IMEI.
`adb get-serialno`	Get the serial number.
`$ dumpsys battery`	Battery status.
`$ pm list users`	Lists phone users (4.1+).
`$ pm list features`	List phone features.

Services & activities

`$ service list`	List all services.
`$ dumpsys activity <package>/<activity>`	Dump activity info.

Logs

All logs are accessed by using either `$ logcat` or `adb logcat`.

Useful options are:

`-d`	Only dump logs (do not block).
`-c`	Flush the buffers.
`-b <buffer>`	Buffer to display (default: system, main).
`<tag>[:priority]`	Filter spec at the end of logcat.

Available priorities are:

`V`	Verbose
`D`	Debug
`I`	Info
`W`	Warn
`E`	Error
`F`	Fatal
`S`	Silent (suppress all output)

Miscellaneous

`$ screencap -p <path>.png`	Screenshot (save to path on device).
`$ screenrecord <path>.mp4`	Screen capture (path on device).

ADB daemon

`adbd` runs on TCP/5037.

`adb kill-server`	Kill the server if it is running.
`adb start-server`	Ensure that there is a server running.
`adb root`	Restarts the adbd with root permissions.

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based on LaTeX cheat sheet by Winston Chang
http://www.stdout.org/~winston/latex/