

# Android Debug Bridge

CS 436 Software Development on Mobile

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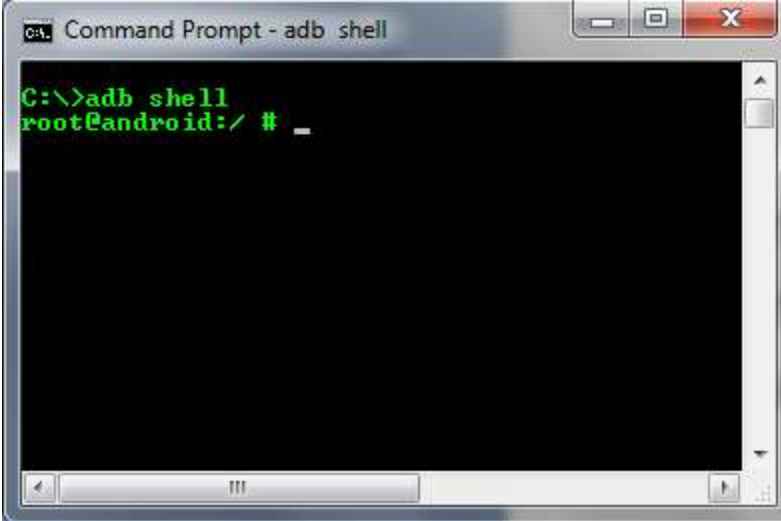


ANDROID

The image shows the Google logo, which consists of the word "Google" in its characteristic multi-colored font (blue, red, yellow, blue, green, red). The logo is enclosed in a thin black rectangular border and is positioned on the right side of the slide.

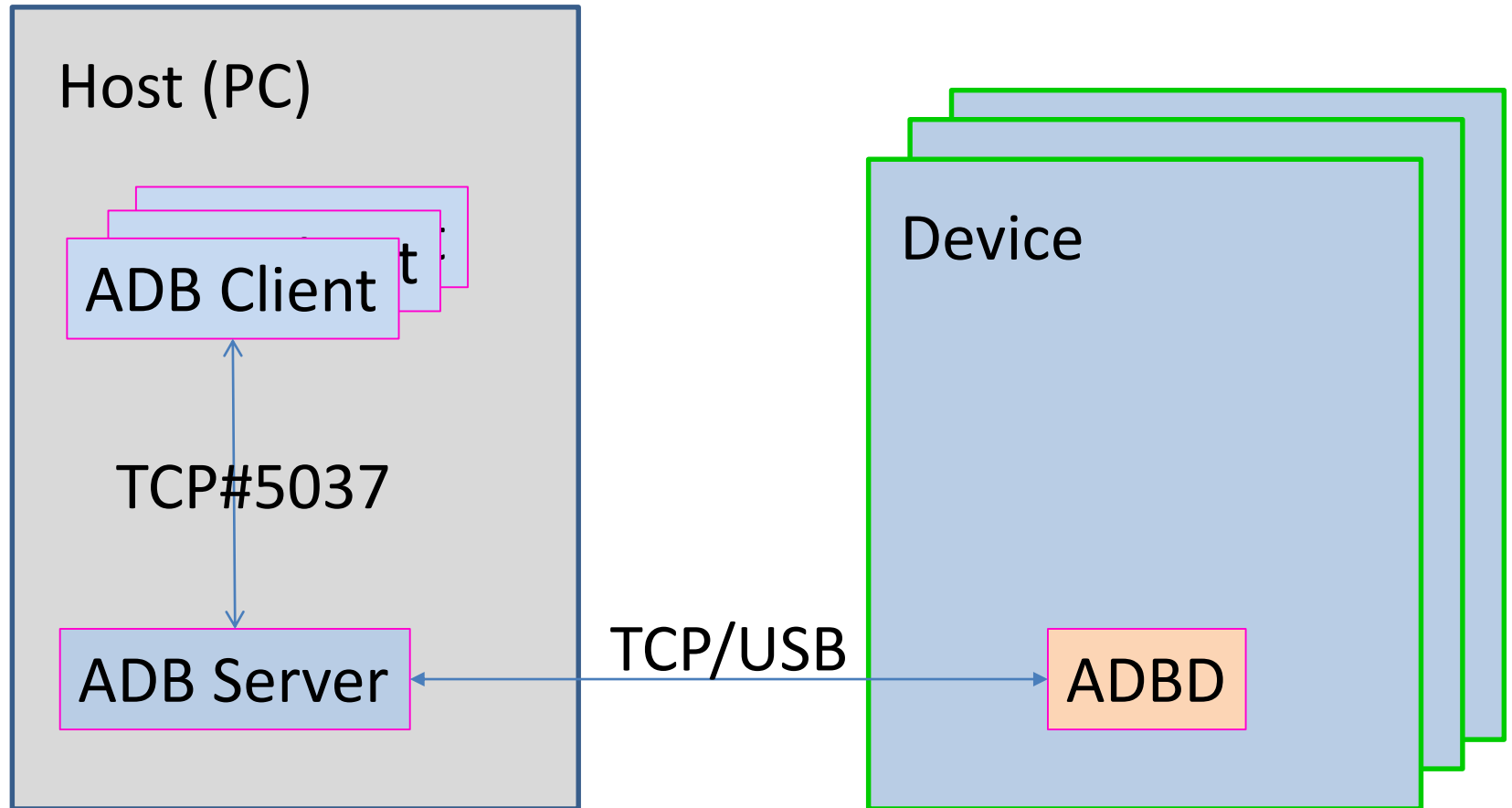
# Android Debug Bridge

Android Debug Bridge (adb) is a versatile command line tool that lets you communicate with an emulator instance or connected Android-powered device



```
Command Prompt - adb shell
C:\>adb shell
root@android:/ # _
```

# Android Debug Bridge



# Android Debug Bridge

You can find the adb tool in `<sdk>/platform-tools/`.

```
adb [-d|-e|-s <serialNumber>] <command>
```

# Android Debug Bridge

Command	Description
<code>devices</code>	Prints a list of all attached emulator/device instances.
<code>version</code>	Prints the adb version number.
<code>logcat [option] [filter-specs]</code>	Prints log data to the screen.
<code>install &lt;path-to-apk&gt;</code>	Pushes an Android application (specified as a full path to an .apk file) to an emulator/device.
<code>pull &lt;remote&gt; &lt;local&gt;</code>	Copies a specified file from an emulator/device instance to your development computer.
<code>push &lt;local&gt; &lt;remote&gt;</code>	Copies a specified file from your development computer to an emulator/device instance.
<code>shell</code>	Starts a remote shell in the target emulator/device instance.
<code>shell [shellCommand]</code>	Issues a shell command in the target emulator/device instance and then exits the remote shell.

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GUI version of ADB can be found in DDMS environment

The screenshot displays the DDMS GUI within the Eclipse IDE. The top menu bar includes File, Edit, Refactor, Source, Navigate, Search, Project, Run, Window, and Help. The main workspace is divided into several panes:

- Devices:** A list of virtual devices. A red box labeled "process control" highlights the device list.
- File Explorer:** A file browser showing the file system of the selected device. A red box labeled "File transfer control" highlights the file explorer.
- LogCat:** A window for viewing system logs. A red box labeled "Logcat debug" highlights the log entries.

The LogCat window shows the following log entries:

L...	Time	PID	TID	Application	Tag	Text
D	03-11 20:56:10.320	1042	1044	com.google...	dalvikvm	GC_CONCURRENT freed 185K,
D	03-11 20:56:10.480	144	1			GC_CONCURRENT freed 822K,
D	03-11 20:56:10.500	1042	1			GC_FOR_ALLOC freed 77K, 5
D	03-11 20:56:10.730	1042	1			GC_CONCURRENT freed 185K,
D	03-11 20:56:10.810	1042	1			GC_FOR_ALLOC freed 16K, 4
I	03-11 20:56:52.089	144	159	system_pro...	ActivityManager	No longer want com.google.
I	03-11 20:56:52.089	144	159	system_pro...	ActivityManager	No longer want com.google.

Thank you 😊