Adb debugging commands guide mobile development

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adb Command: A Comprehensive Guide

Full Form of adb Command

adb stands for Android Debug Bridge.

Components of adb

adb consists of three main components:

- **adb**: The command-line utility for interacting with devices.
- **adbd**: The daemon running on devices that handles communication with adb.
- **USB driver**: The Windows or macOS driver that enables communication between the host and device via USB.

Difference Between Logcat and Dumpsys

- **Logcat**: Outputs system and application logs.
- **Dumpsys**: Examines and modifies internal system components for debugging purposes.

How to Turn On Phone with ADB Command

To turn on a device using adb:

```
adb shell input keyevent 26
```

ADB Debugging Without USB Debugging

To enable ADB without USB debugging:

1. Enable developer options on the device.
2. Connect to Wi-Fi.
3. Run `adb tcpip 5555` on the host machine.
4. Use the command `adb connect <device IP>` to connect wirelessly.

adb shell dumpsys gfxinfo

`adb shell dumpsys gfxinfo` retrieves performance information about the device's graphics system.

Dump File in Mobile

A dump file is a snapshot of a specific aspect of the device's state, such as the memory or system logs.

Best Logcat Viewer Android

- Logcat Reader
- DroidLog
- Timber

How to Execute ADB Commands

1. Open a command prompt or terminal.
2. Navigate to the SDK's platform-tools directory.
3. Type `adb` followed by the desired command.

Connecting Mobile Through ADB

1. Enable USB debugging on the device.

2. Connect the device to the host computer via USB.
3. Run `adb devices` to check if the device is connected.

Controlling Phone with ADB

Use the `adb shell` command to access the device's shell and execute commands.

Rebooting Phone Using ADB

To reboot a device:

```
adb reboot
```

Checking Devices on ADB

Use `adb devices` to list connected devices.

Pairing ADB Pairing Code

Run `adb pair <device ID>` to display a pairing code on the device. Enter the code on the host machine to pair the devices.

Wireless Debugging

1. Enable wireless debugging in developer options.
2. Connect to the same Wi-Fi network as the host computer.
3. Use `adb connect <device IP>` to establish a wireless connection.

ADB Wi-Fi

ADB Wi-Fi allows wireless debugging over a Wi-Fi connection.

Forcing USB Debugging on Android

1. Boot the device into bootloader mode.
2. Run `fastboot oem unlock` (if necessary).
3. Run `fastboot oem enable-adb`.

Resetting ADB Command

Run `adb kill-server` to stop the adb server and reset the connection.

adb Command in CMD

`adb` is a command available in Windows Command Prompt.
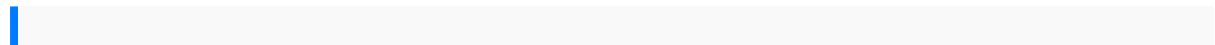
adb Root Command

`adb root` grants adb root access on rooted devices.

Finding adb Command

1. Search for `adb` in the SDK's platform-tools directory.
2. Check the system path for `adb.exe`.

adb Testing Full Form

adb testing stands for Android Device Bridge Testing.

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