**Welcome to Treble Toolkit!**

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**1. What are GSIs?**

**In June 2017, Google introduced Android 8 Oreo, and with it came the Generic System Images (GSIs). They promised to take some work out of developers, since you didn’t need to port every driver and detail of your device, so it was much easier. GSIs were an attempt at solving Android Version Fragmentation, but at the start, it didn’t do much. They work because the essential drivers and files are now stored in a new partition called “vendor”, and kernels work between Android versions, since the biggest compatibility bottleneck is solved.**

**1.1 Where can I get them?**

**There are many good GSIs, like phhusson’s Android GSI.**

**(**[**https://github.com/phhusson/treble\_experimentations/releases**](https://github.com/phhusson/treble_experimentations/releases)**)**

**Other good GSIs are per exemple the ErfanGSI.**

**(**[**https://mirrors.lolinet.com/firmware/gsi/**](https://mirrors.lolinet.com/firmware/gsi/)**)**

**My recommendation would be searching online for the GSI that best suits you.**

**1.2 Are they stable?**

**For the most part, they are, however if you are looking for stability, I would avoid OEM ROM ports, as they are not meant for devices that aren’t the OEM’s. Per example, an OxygenOS GSI didn’t work well in even my OnePlus 6, a phone from the same brand.**

**2. Is my device A or A/B?**

**I don’t know, but Treble Check does. You can get it on:**

[**https://play.google.com/store/apps/details?id=com.kevintresuelo.treble HYPERLINK "https://play.google.com/store/apps/details?id=com.kevintresuelo.treble&hl=pt\_PT"& HYPERLINK "https://play.google.com/store/apps/details?id=com.kevintresuelo.treble&hl=pt\_PT"hl=pt\_PT**](https://play.google.com/store/apps/details?id=com.kevintresuelo.treble&hl=pt_PT)

**If you see “supported” under “seamless updates”, your device is A/B.**

**If you don’t, it’s A.**

**2.1 Do A ROMs work on A/B or vice versa?**

**No. The file system structure is different between them.**

**2.2 Can I convert my phone to A/B from A or vice versa?**

**Not currently.**

**3. Do I need to flash Permissiver?**

**Unless you’re flashing an Erfan GSIs, you most likely don’t.**

**4. What is FreeCMD?**

**FreeCMD is essentially the CMDHere.exe in Minimal ADB and Fastboot 1.4.3 repackaged into a modified version of the newest version of Android Platform Tools (17/6/2020). It allows you to run your own ADB/Fastboot commands.**

**5. My device is not on the “Supported Devices” list. Should I worry?**

**No, because I only have a OnePlus 6, and that is only one phone to test. What you can do is telling me that it is/isn’t working on your phone so that I can add it on the “supported devices” window.**

**6. Does unlocking my bootloader void my warranty?**

**It depends on your device’s OEM’s warranty policies.**

**7. My device is not being recognized by my computer. What should I do?**

**On the Toolkit, go to “More” and select “Install ADB drivers”**

**If you have them installed, check if “Enable USB Debugging” is enabled on the Developer Options.**