

2015, 2017, & 2019 Nvidia Shield TV Firmware Repo & Source Code Repo

Normal Users seeking only Backup Stock Copies should use the Stock Recovery Images Below. AI Upscaling Works.

Using the Developer Only Rooted (Full Read Write) Images will break AI upscaling

Spoiler: DIFFERENCES

The main difference between a dev root and a [stock root](#) will be the apps available in the playstore. With the Dev Root, adb works as Root outside of the shell. With stock root, right now adb cannot work as root outside of the shell, only adb shell su works.

Stock root allows stock apps like Disney + to operate, whereas the Dev rooted images cannot **(natively)** download Disney + and other apps that check for things like user models vs userdebug, etc... See the links at the bottom of the post for Stock root, or use the Dev rooted firmware if you Need a userdebug firmware.

Spoiler: FIRMWARE VERSIONS AND DOWNLOADS

Further information on what the mirrors are can be located [here](#)

Spoiler: 2019 16GB PRO

Spoiler: STOCK RECOVERY IMAGES

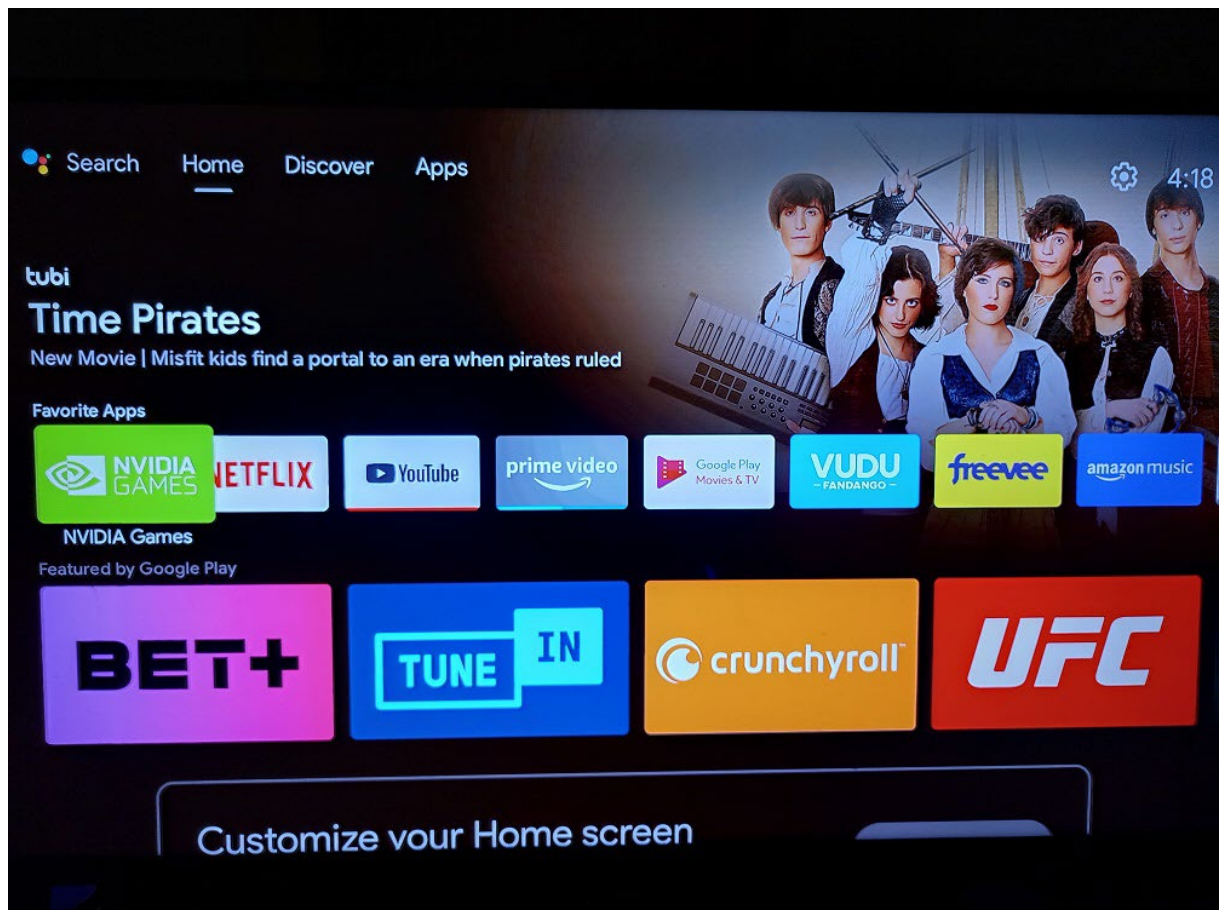
Spoiler: 9.0.0

DOWNLOAD (909M)

[9.0.0.zip](#)



drive.google.com

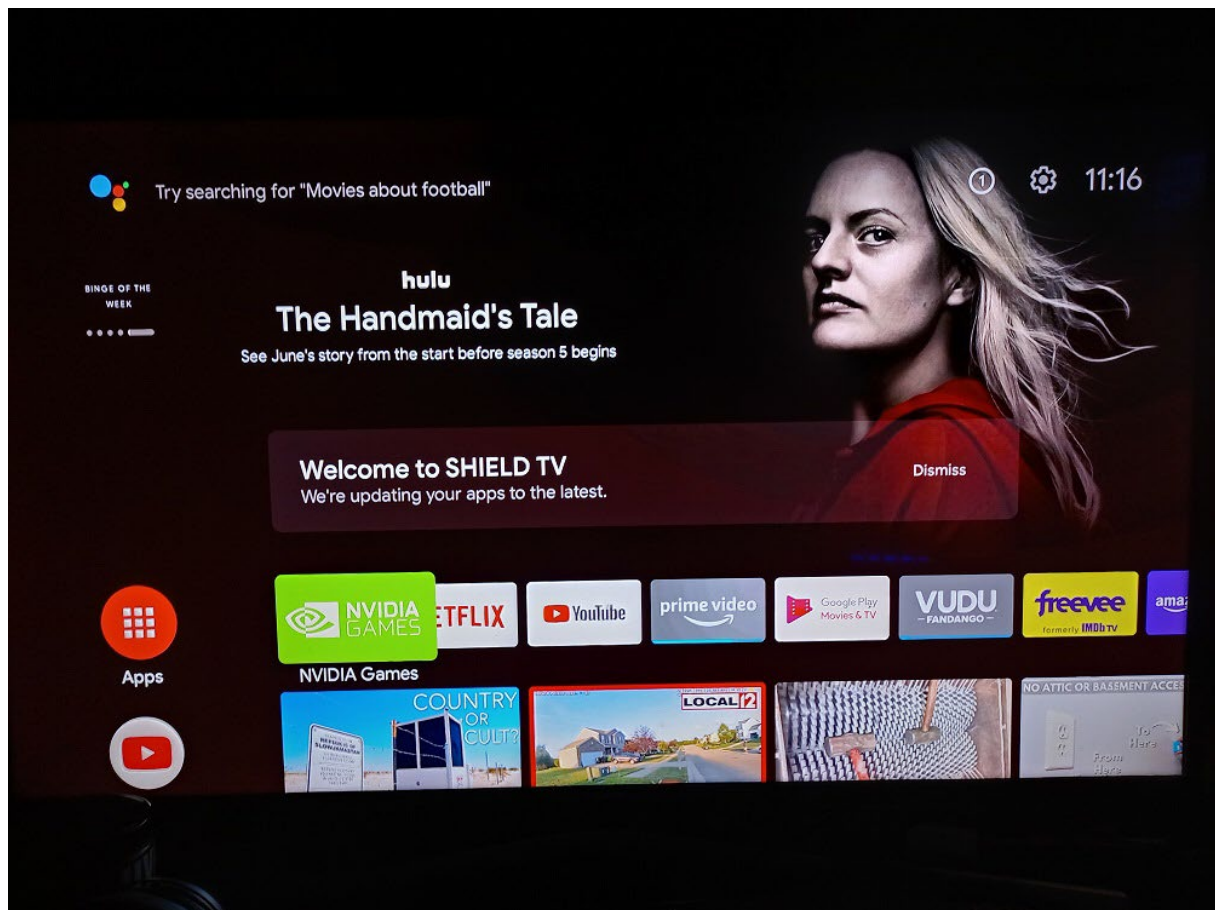


Spoiler: 8.2.3

DOWNLOAD (799M)

[8.2.3-stock.zip](#)

 drive.google.com

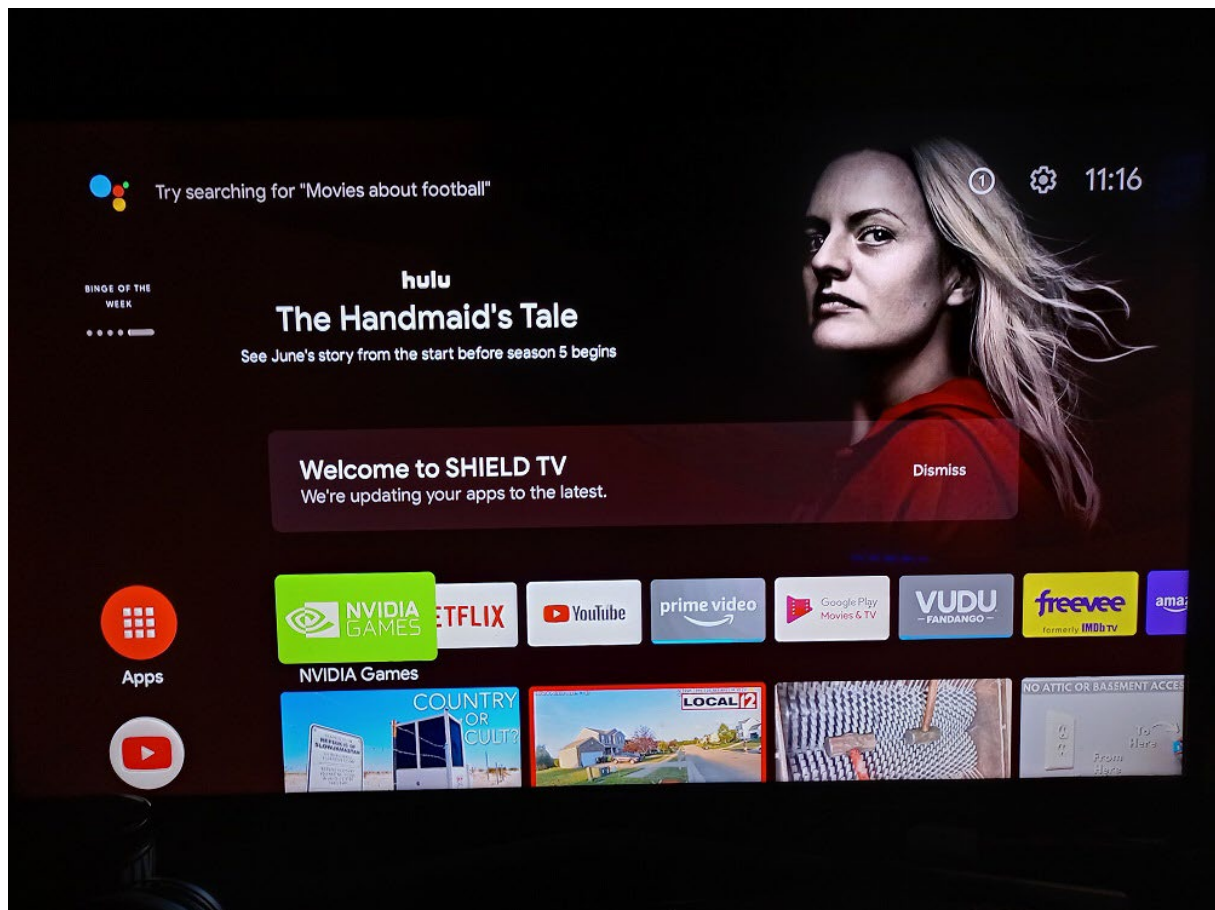


Spoiler: 8.2.2

DOWNLOAD (800M)

[8.2.2.zip](#)

 drive.google.com

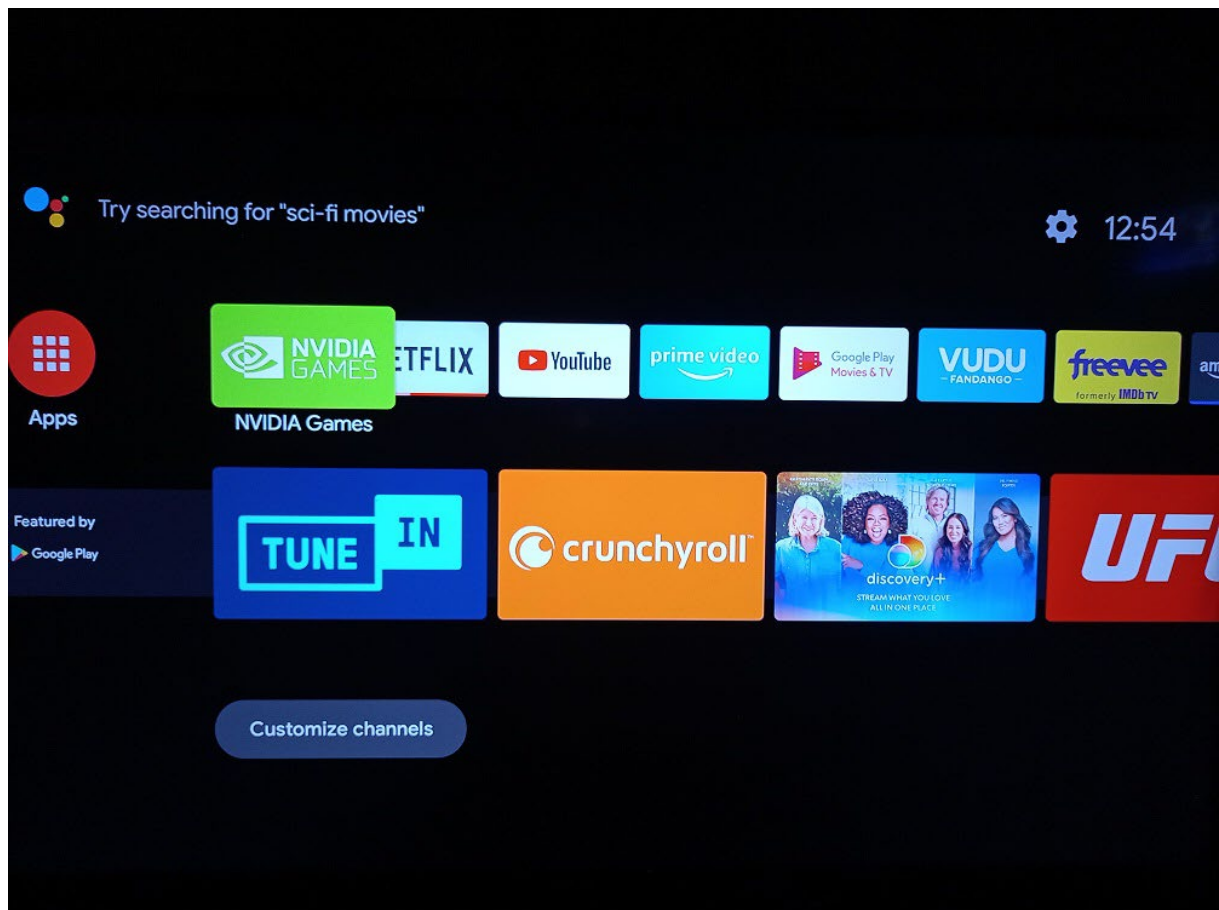


Spoiler: 8.2.1

DOWNLOAD (797M)

[8.2.1.zip](#)

 drive.google.com

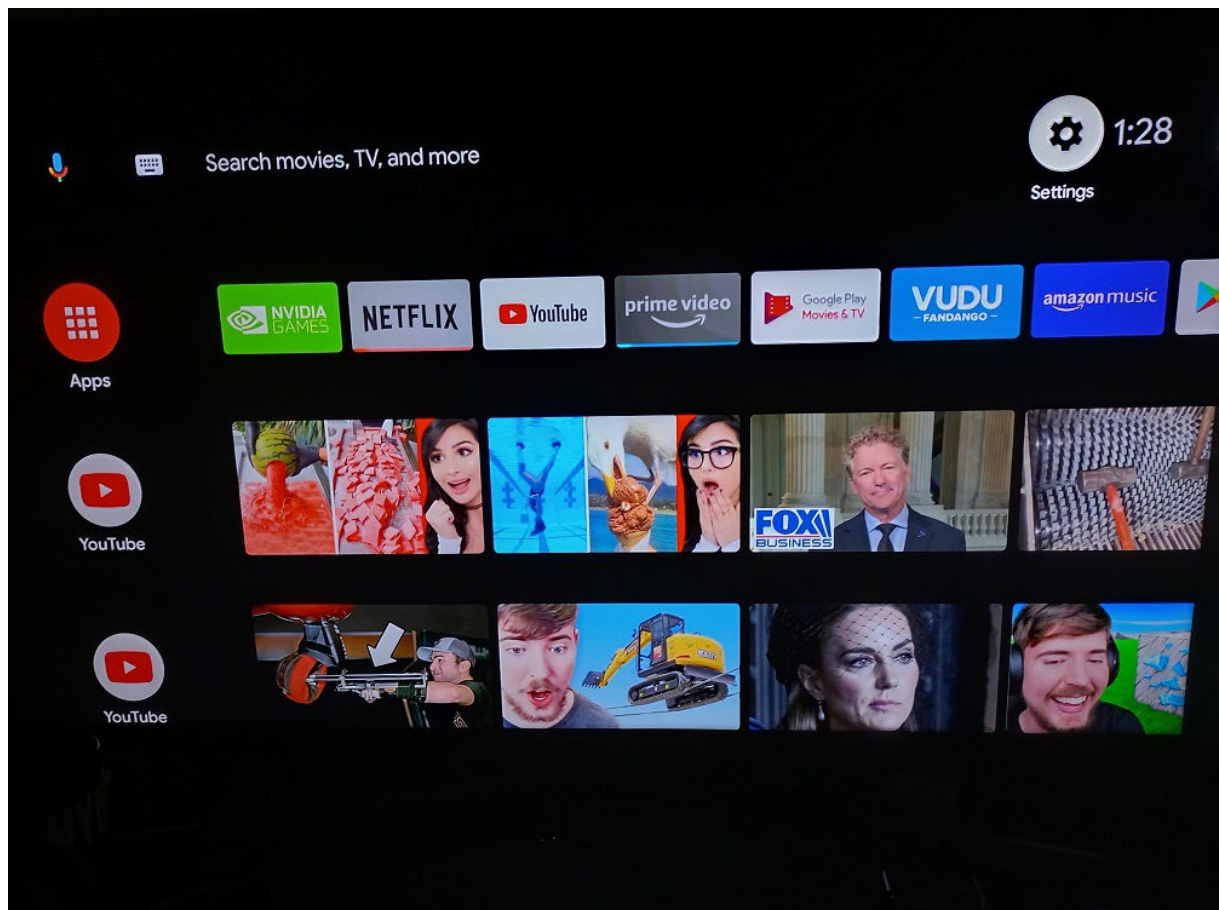


Spoiler: 8.2.0

DOWNLOAD (814M)

[8.2.0.zip](#)

 drive.google.com



Spoiler: 8.1.1

DOWNLOAD (770M)

[8.1.1.zip](#)

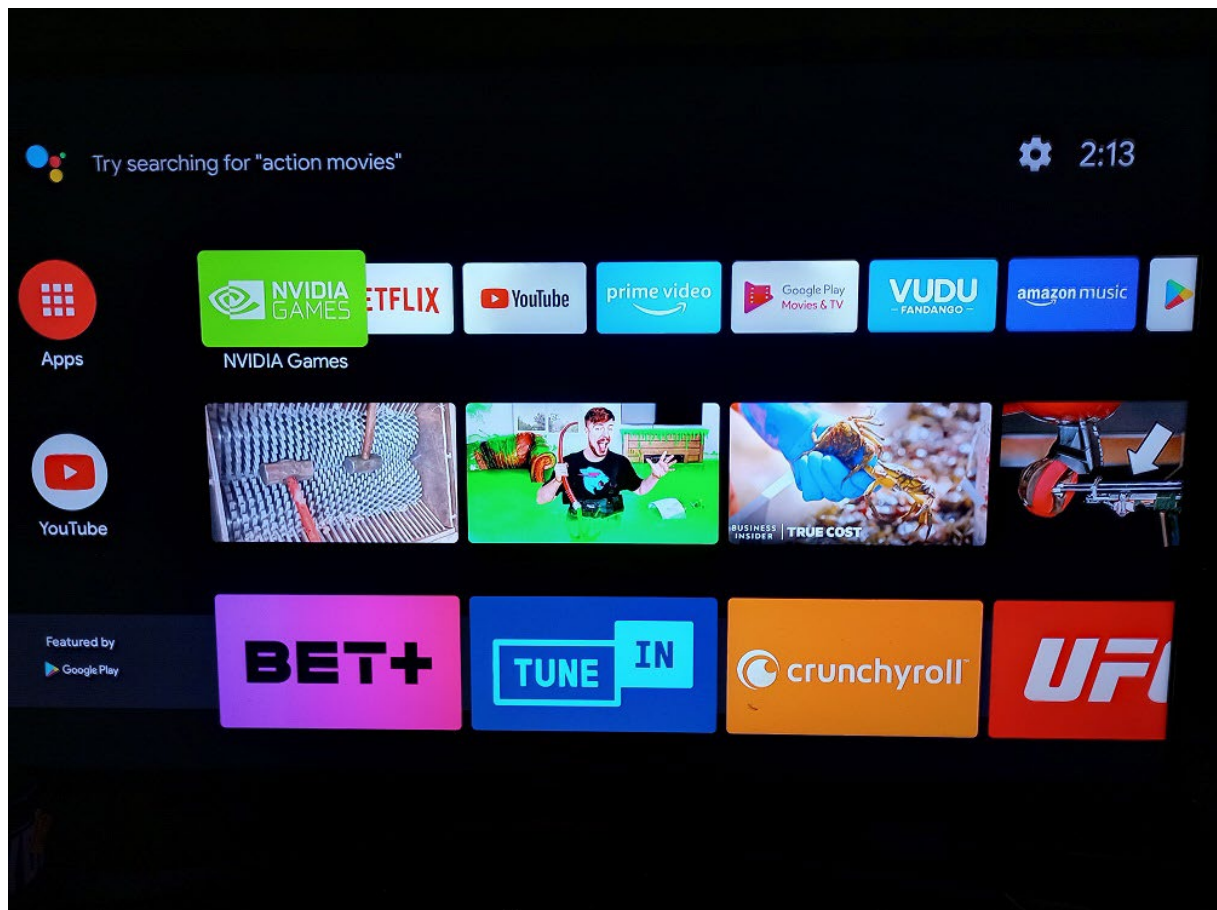
 [drive.google.com](#)

Spoiler: 8.1.0

DOWNLOAD (756M)

[8.1.0.zip](#)

 [drive.google.com](#)



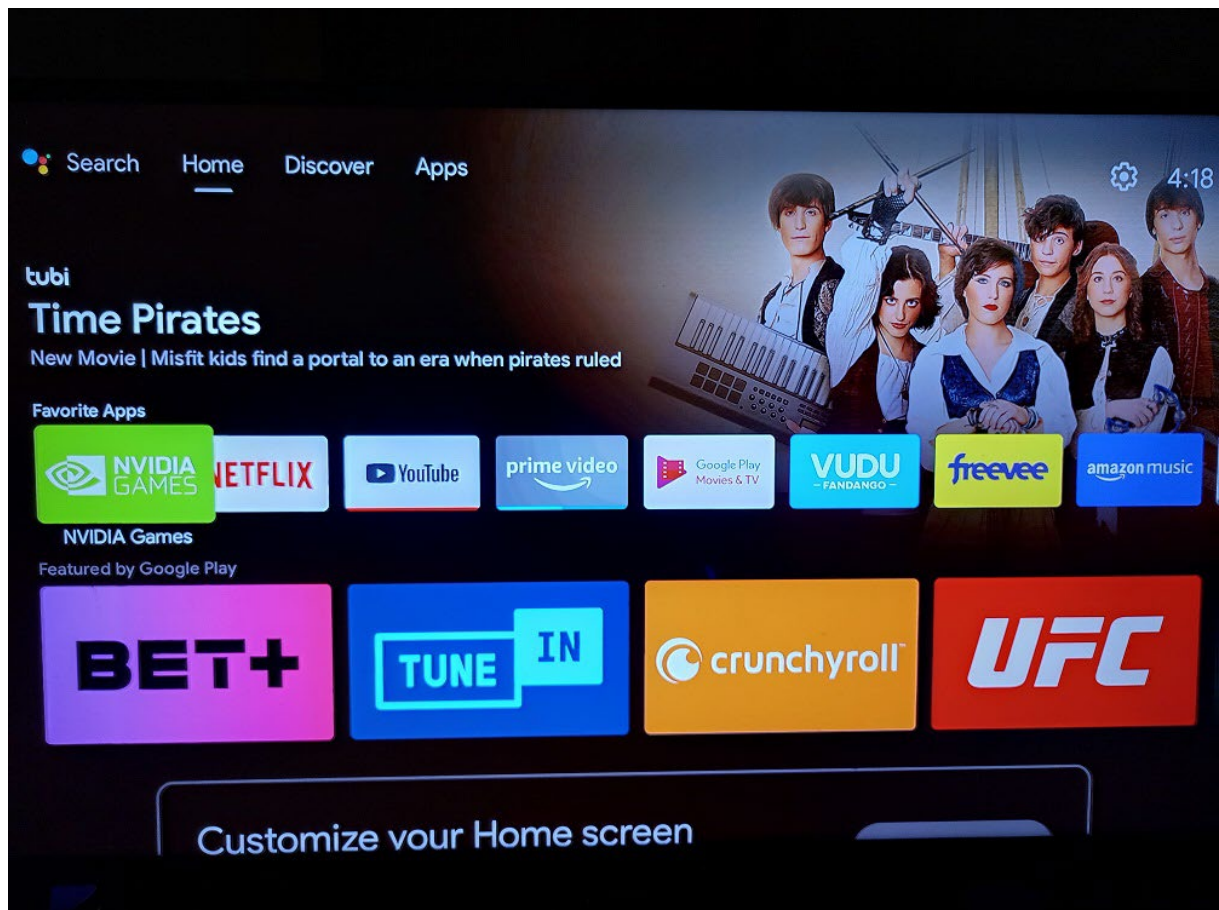
Spoiler: DEVELOPER ONLY ROOT IMAGES

Spoiler: 9.0.0

DOWNLOAD (947M)

[9.0.0.zip](#)

 drive.google.com

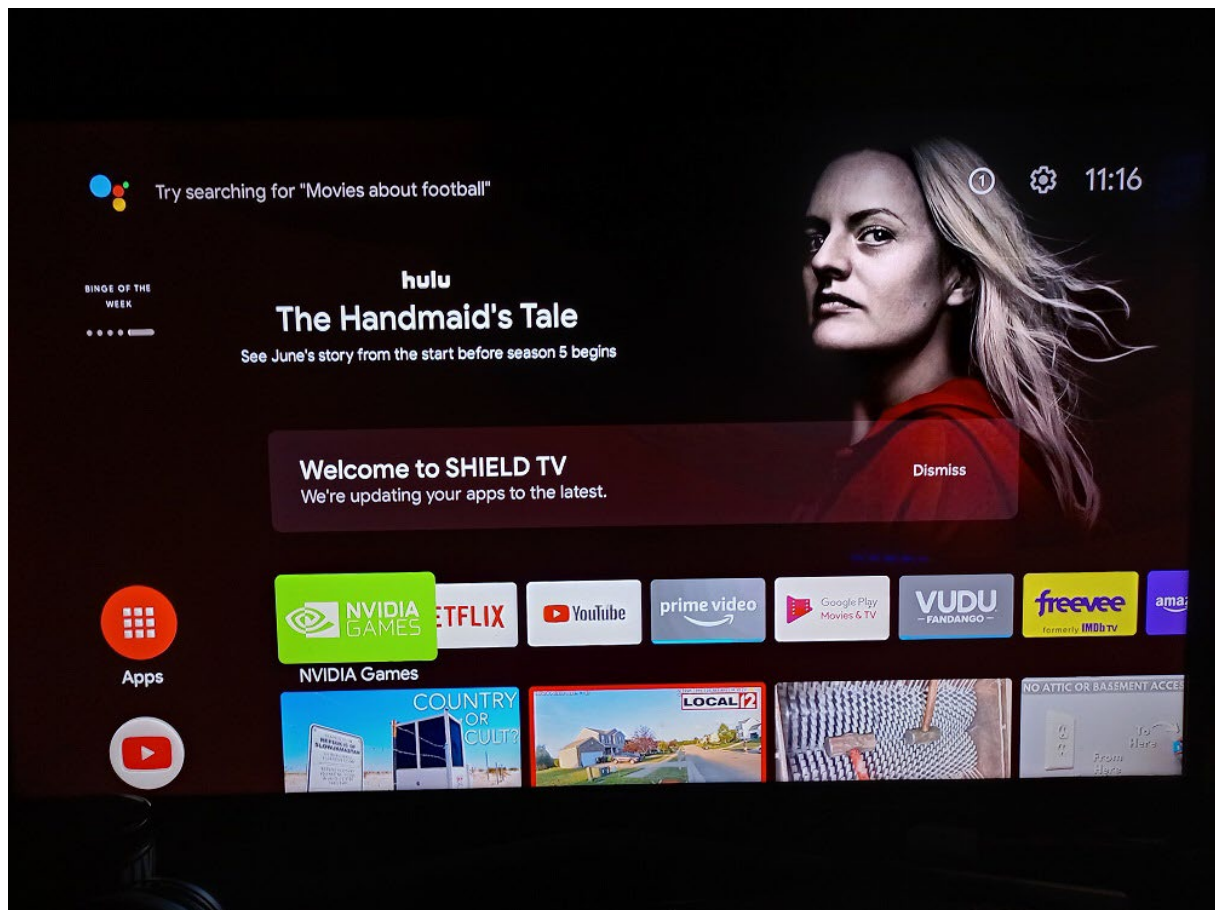


Spoiler: 8.2.3

DOWNLOAD (825M)

[8.2.3.zip](#)

 drive.google.com

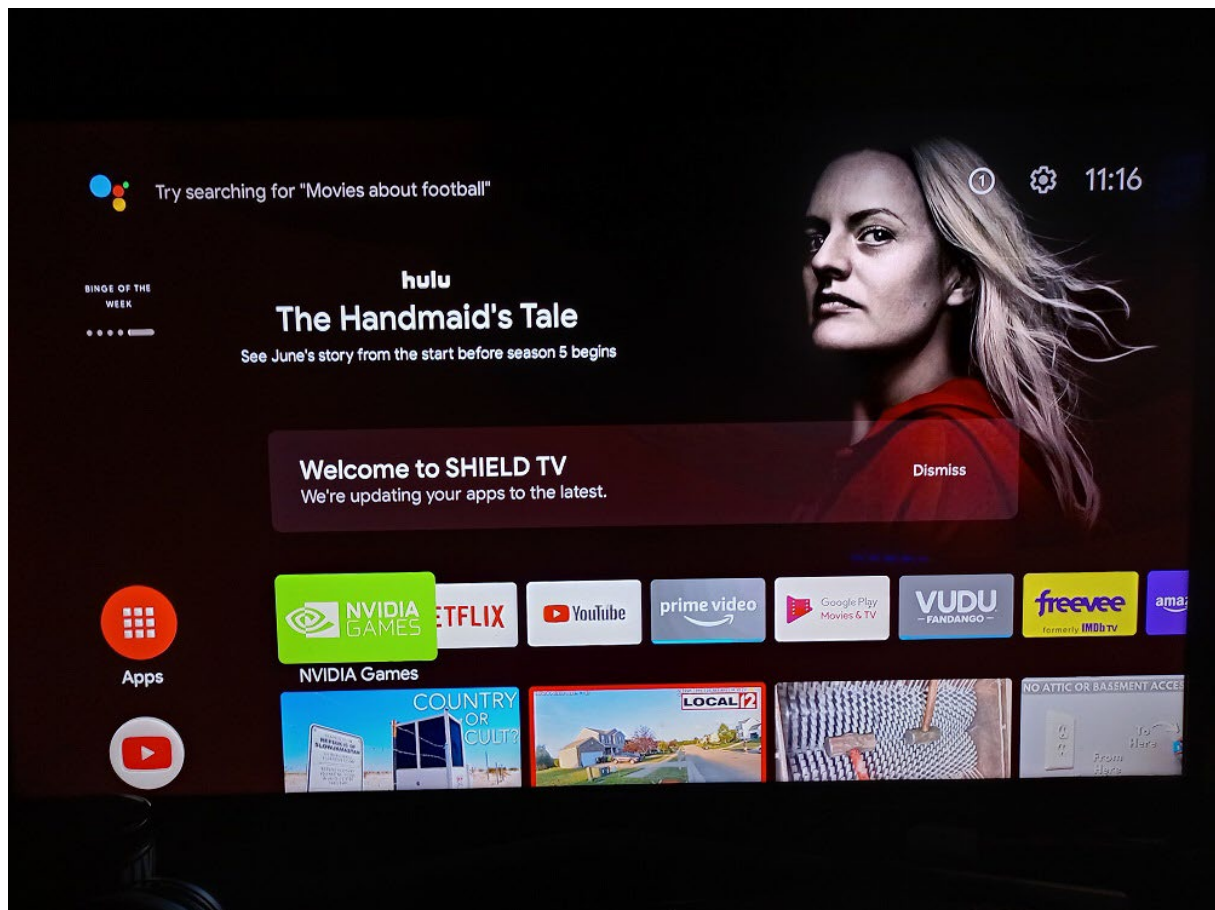


Spoiler: 8.2.2

DOWNLOAD (825M)

[8.2.2.zip](#)

 drive.google.com

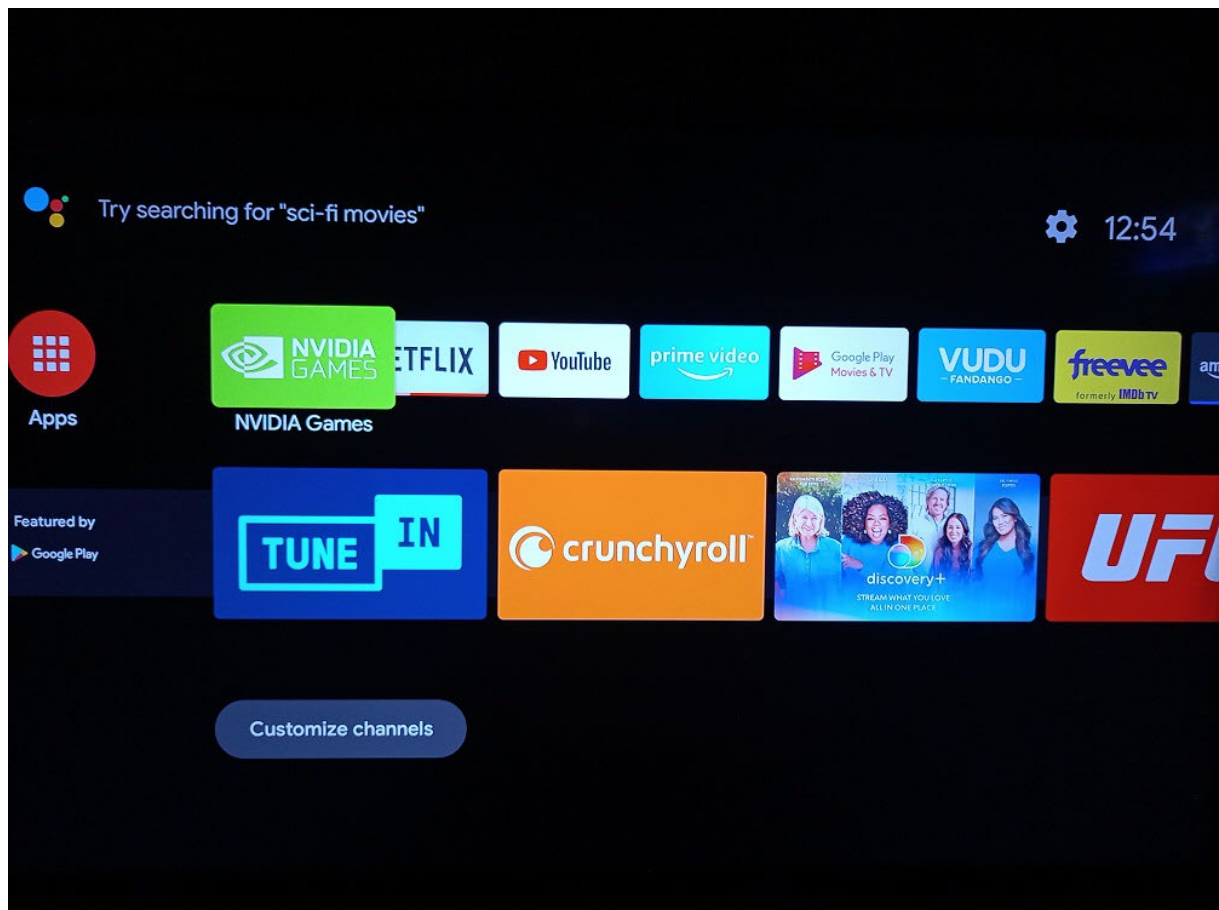


Spoiler: 8.2.1

DOWNLOAD (823M)

[8.2.1.zip](#)

 drive.google.com

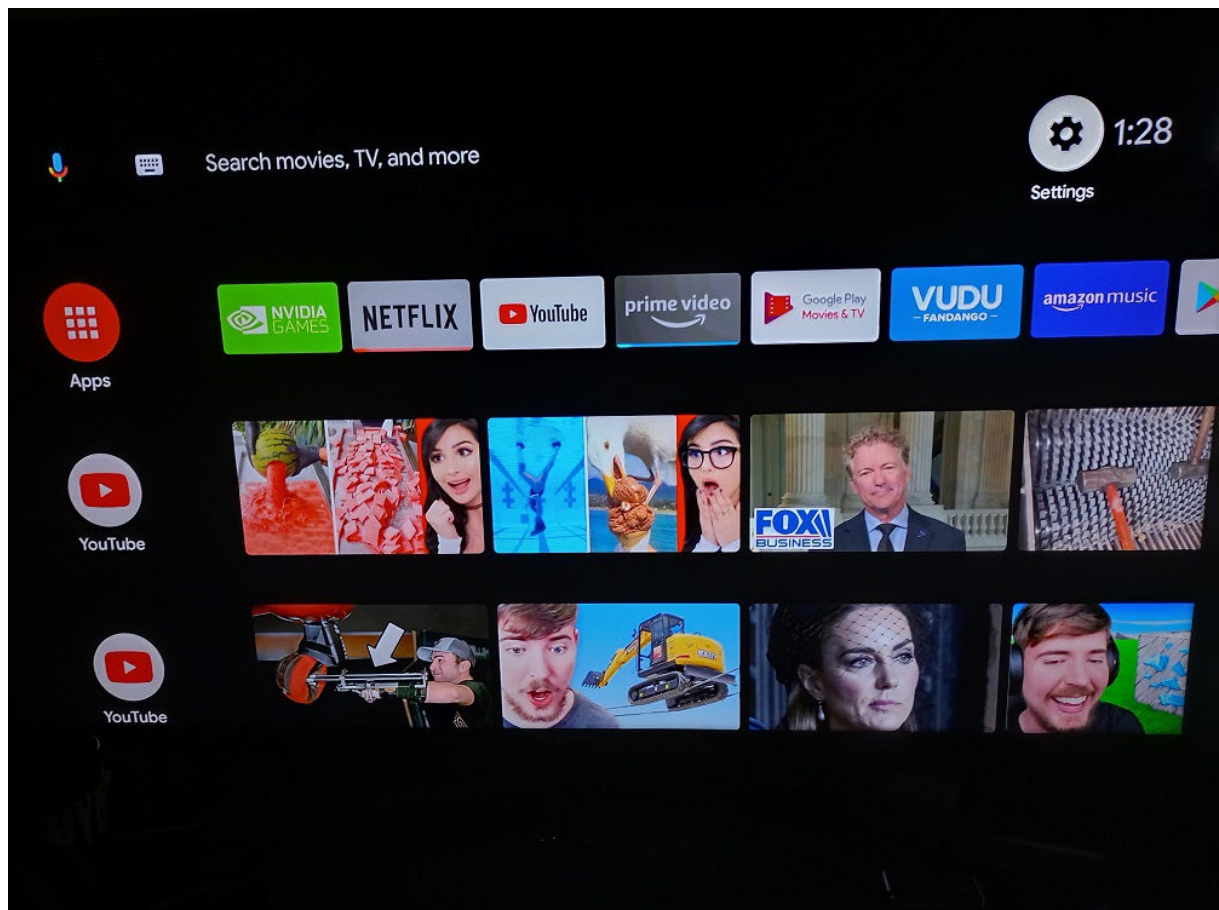


Spoiler: 8.2.0

DOWNLOAD (839M)

[8.2.0.zip](#)

 drive.google.com



Spoiler: 8.1.1

DOWNLOAD

[8.1.1.zip](#)

 drive.google.com

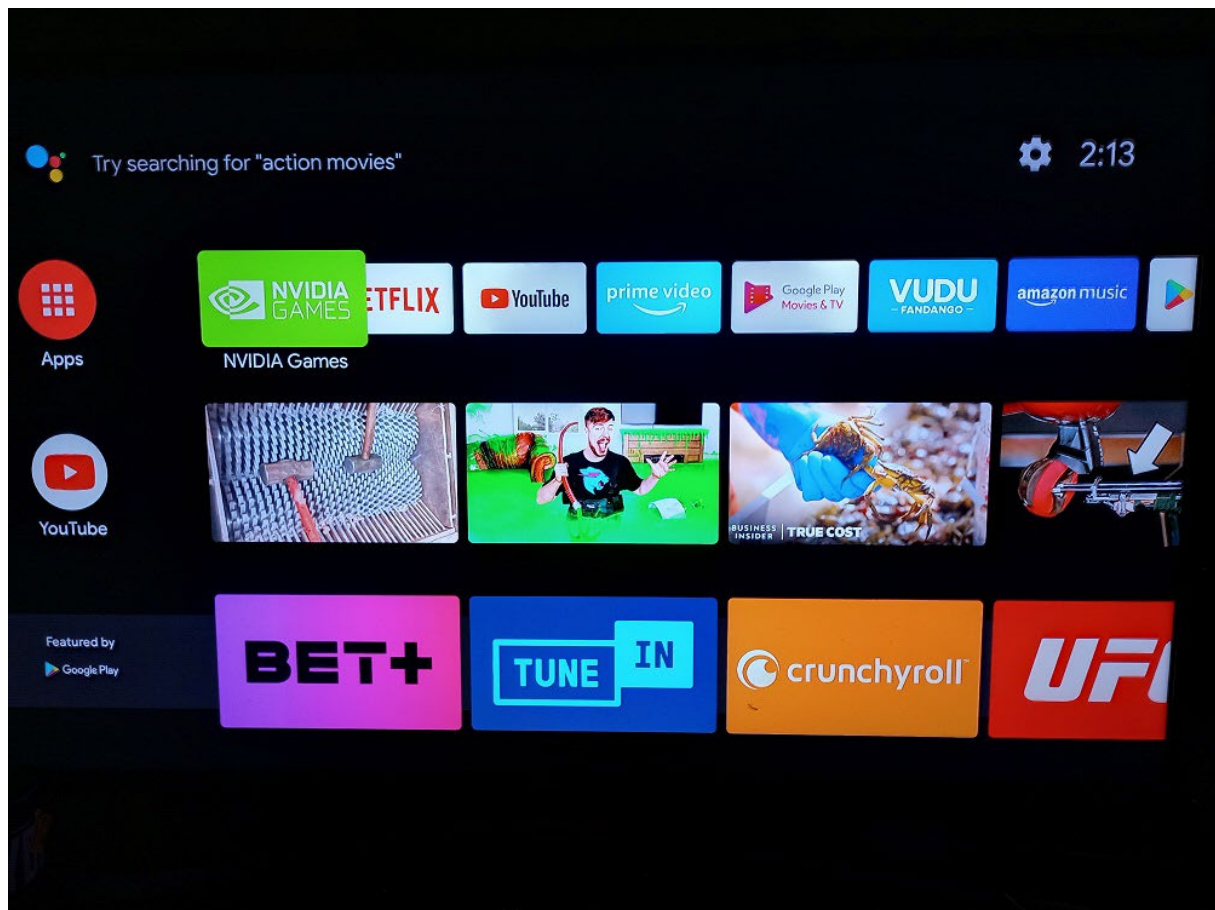
(795M)

Spoiler: 8.1.0

DOWNLOAD (795M)

[8.1.0.zip](#)

 drive.google.com



Spoiler: 9.1 & 9.1.1 OTA FIRMWARE PACKAGES

For Me, and those that know what to do with these. They are not like the other firmwares

9.1 OTA PACKAGE (783M):

[PUBLICf77c312b128b6bde79b389a322706382.zip](https://drive.google.com/uc?export=download&confirm=1&id=PUBLICf77c312b128b6bde79b389a322706382)



drive.google.com

9.1.1 OTA PACKAGE (783M)

[PUBLIC18e513b8a32a039975ecfcfa316d8217.zip](https://drive.google.com/uc?export=download&confirm=1&id=PUBLIC18e513b8a32a039975ecfcfa316d8217)



drive.google.com

KNOWLEDGE:

Can be found [here](#) and [here](#)

Spoiler: 2017 16GB

Spoiler: STOCK RECOVERY IMAGES

Spoiler: 9.0.0

DOWNLOAD (1.1G):

[9.0.0.zip](#)



drive.google.com

Spoiler: 8.2.3

DOWNLOAD (1G):

[8.2.3.zip](#)



drive.google.com

Spoiler: 8.2.2

DOWNLOAD (1G):

[8.2.2.zip](#)



drive.google.com

Spoiler: 8.2.1

DOWNLOAD (1G):

[8.2.1.zip](#)



drive.google.com

Spoiler: DEVELOPER ONLY ROOT IMAGES

Spoiler: 9.0.0

DOWNLOAD (1.2G):

[9.0.0.zip](#)



drive.google.com

Spoiler: 8.2.3

DOWNLOAD (1.0G):

[8.2.3.zip](#)



drive.google.com

Spoiler: 8.2.2

DOWNLOAD (1.0G):

[8.2.2.zip](#)



drive.google.com

Spoiler: 8.2.1

DOWNLOAD (1.0G):

[8.2.1.zip](#)



drive.google.com

Spoiler: 8.0.1

DOWNLOAD (1.0G):

[8.0.1.zip](#)



drive.google.com

Spoiler: 9.1 & 9.1.1 OTA FIRMWARE PACKAGES

For Me, and those that know what to do with these. They are not like the other firmwares

9.1

[PUBLICfd1e9f9188e7bd88cffbfae53e376fe2.zip](#)



drive.google.com

9.1.1

[PUBLICffdca8e754c68400eb333ee4fa37d8ae.zip](#)



drive.google.com

KNOWLEDGE:

Can be found [here](#) and [here](#)

Spoiler: 2015 16 GB

Spoiler: STOCK RECOVERY IMAGES

Spoiler: 9.0.0

[9.0.0-2015-STOCK.zip](#)



drive.google.com

Spoiler: DEVELOPER ONLY ROOT IMAGES

Spoiler: 9.0.0

[9.0.0-2015-DEV.zip](#)



drive.google.com

Spoiler: PREREQUISITES

Spoiler: ADB

Here's a way to install adb quickly using powershell and chocolatey.

Open powershell as admin and type:

Code:

```
Set-ExecutionPolicy Bypass -Scope Process -Force;  
[System.Net.ServicePointManager]::SecurityProtocol =  
[System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object  
System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
```

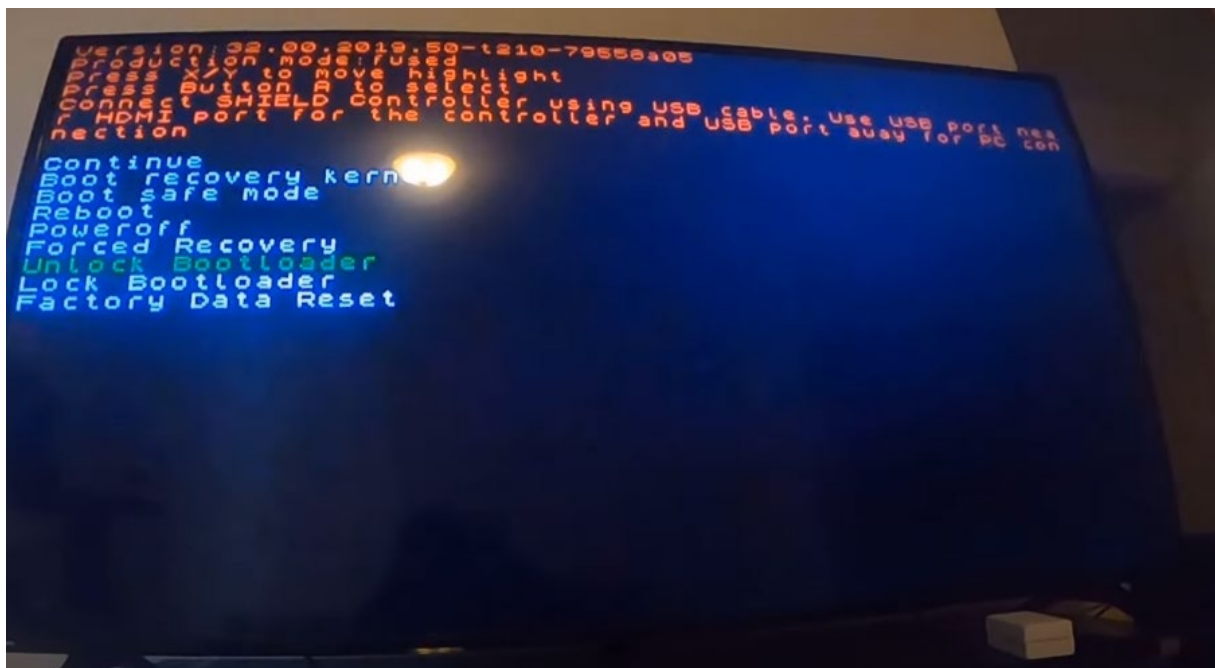
choco install adb

That's it!

Spoiler: UNLOCKED BOOTLOADER

To unlock your bootloader, enter the fastboot menu either by sending "adb reboot bootloader" or by pulling the power cord from your shield. Reattach the power cord.

Using either a wired Nvidia Shield Controller or a USB 3.0 keyboard, press and hold A+B until this screen comes up



Select Unlock Bootloader with your controller or keyboard

Spoiler: SHIELD USB DRIVER

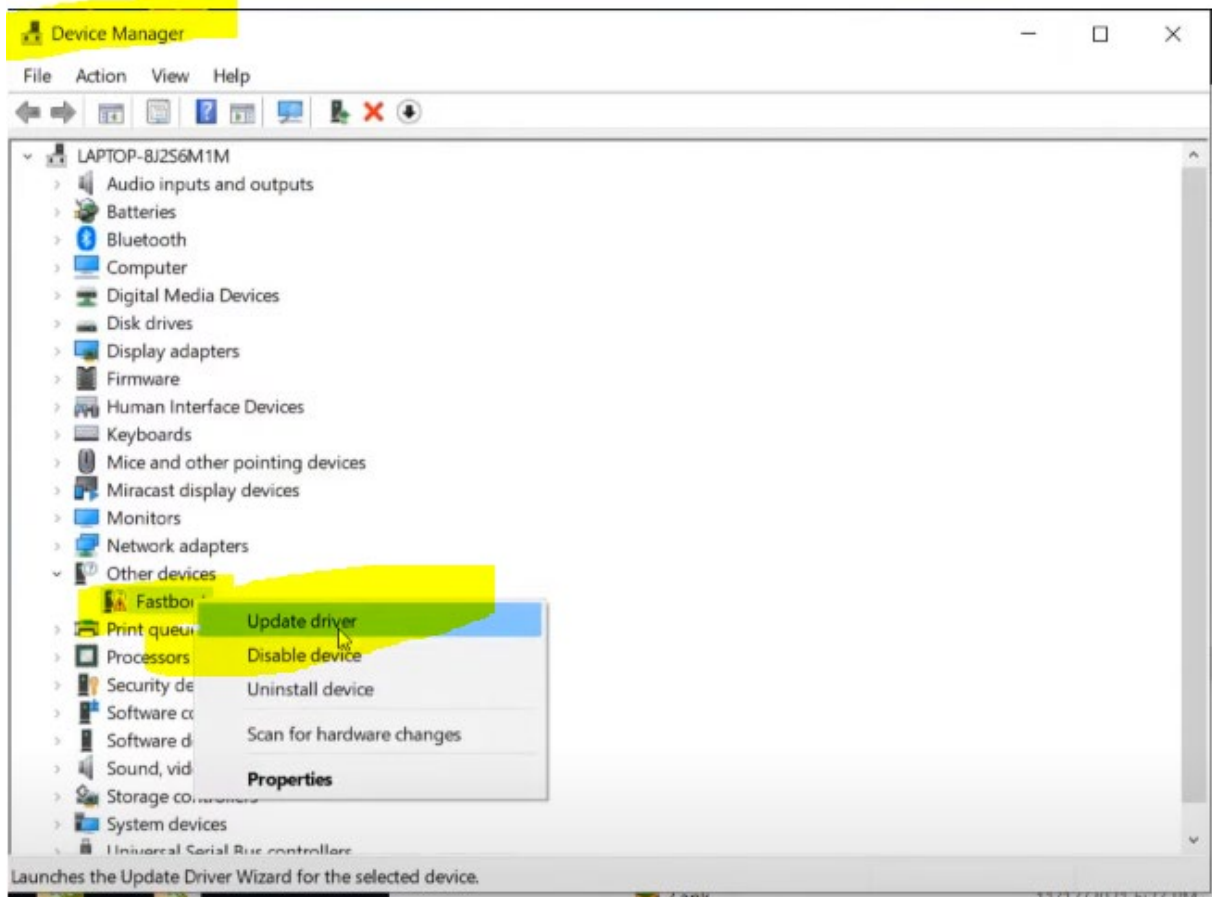
DOWNLOAD (9M)

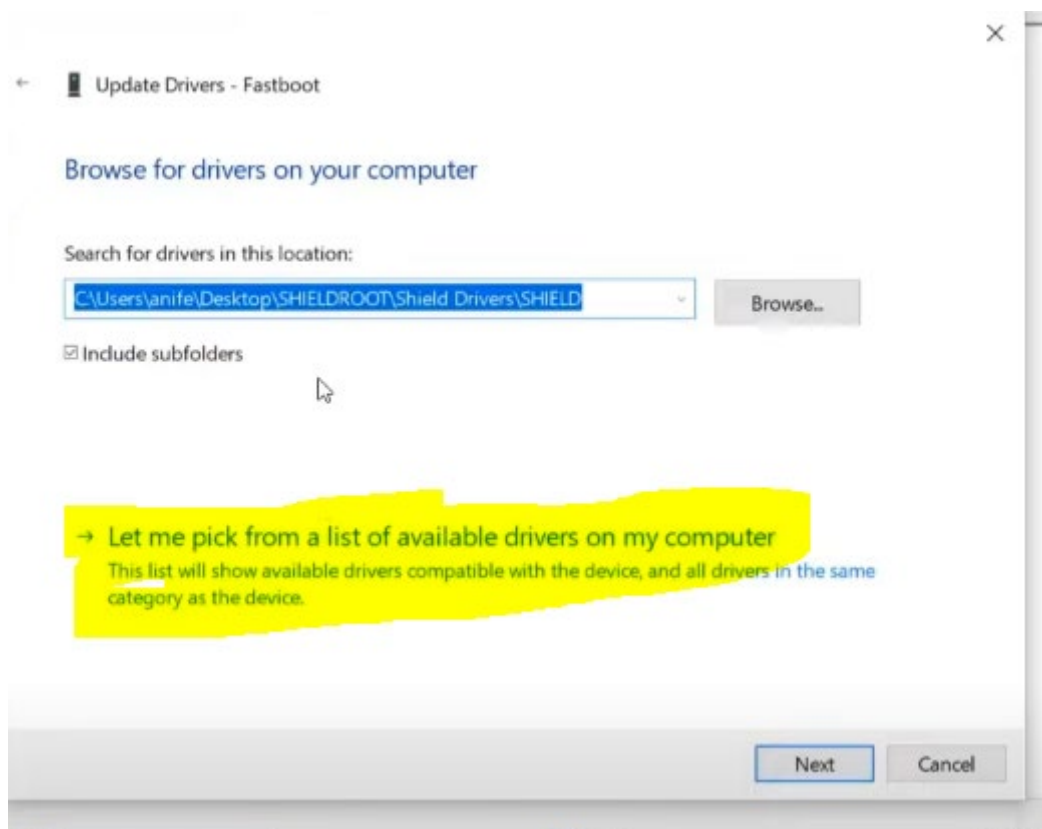
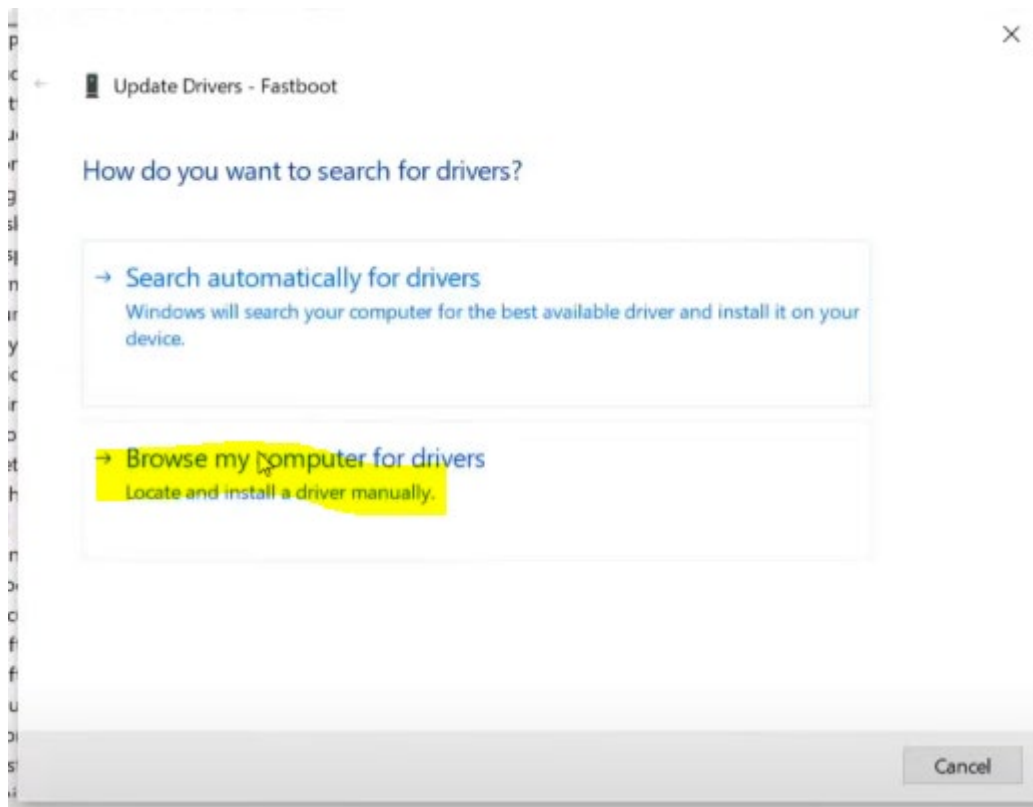
[Shield Drivers.zip](#)

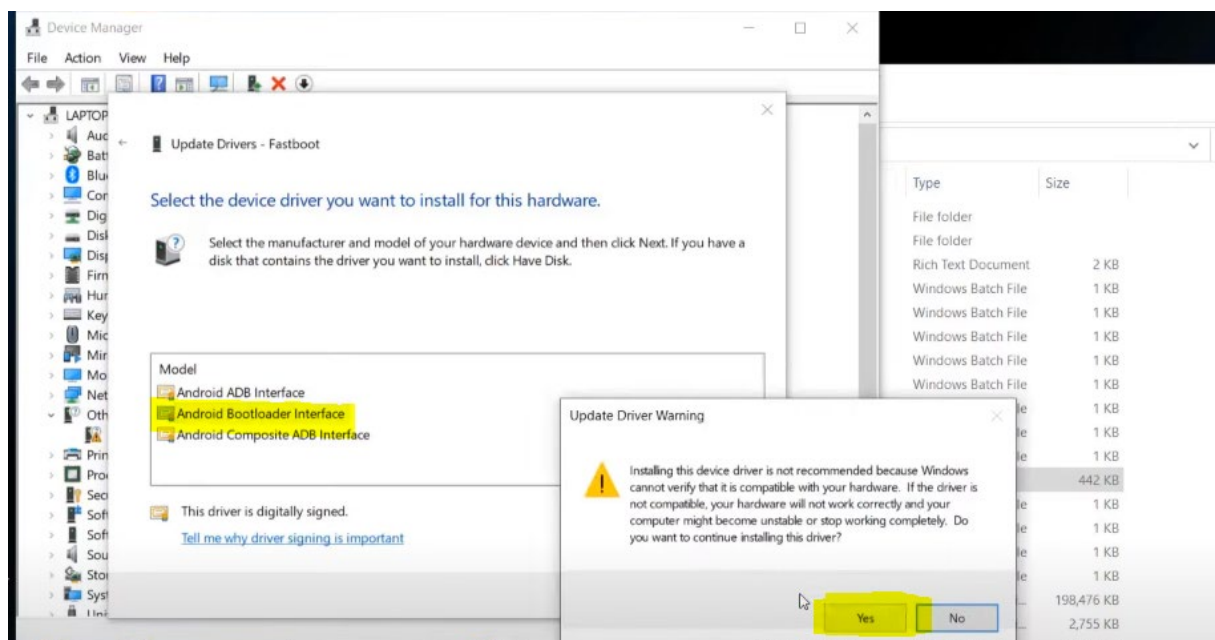
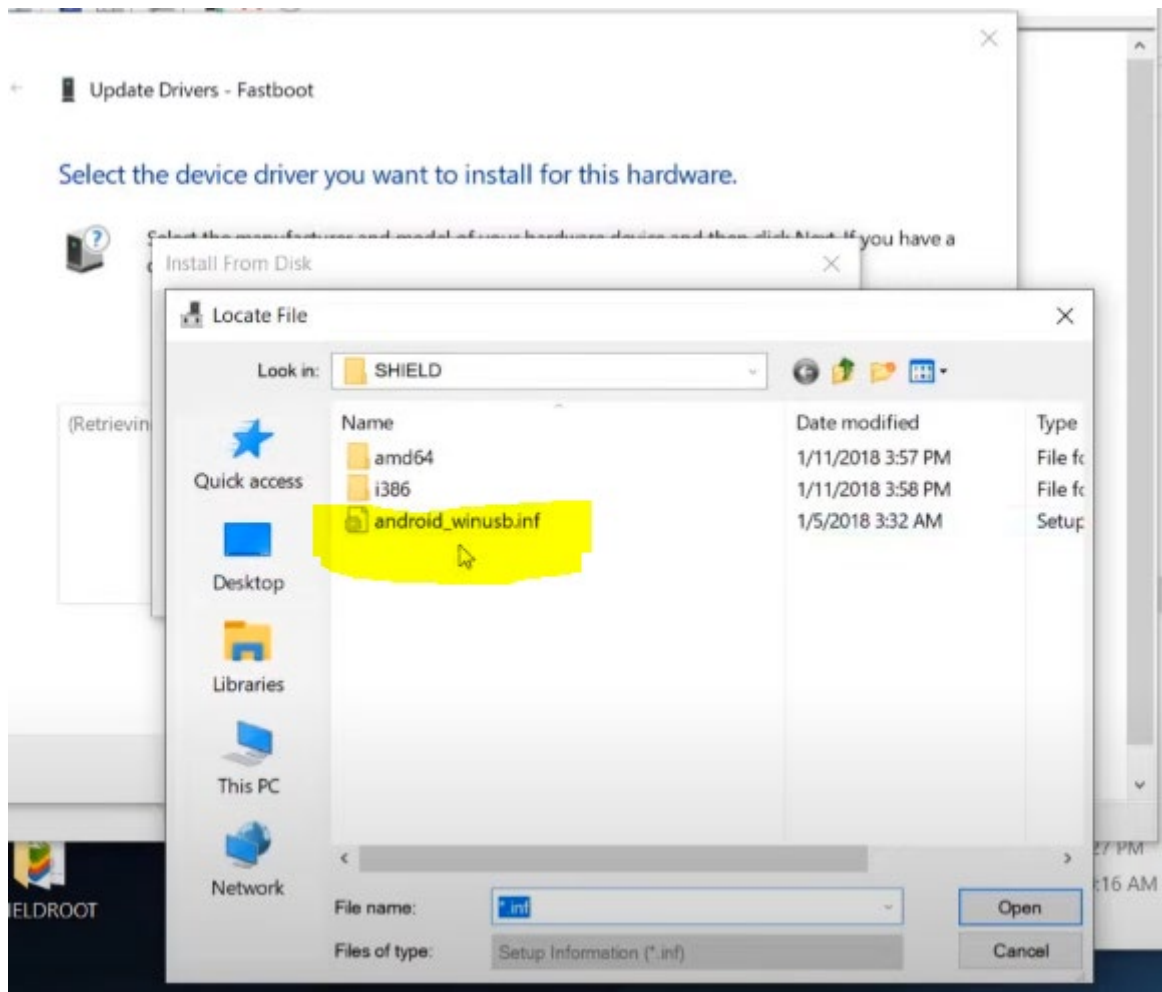


drive.google.com

Attach a usb-c cable to your shield (use the port furthest from your hdmi cable) and connect the c end to your pc, then open device manager and right click on fastboot device



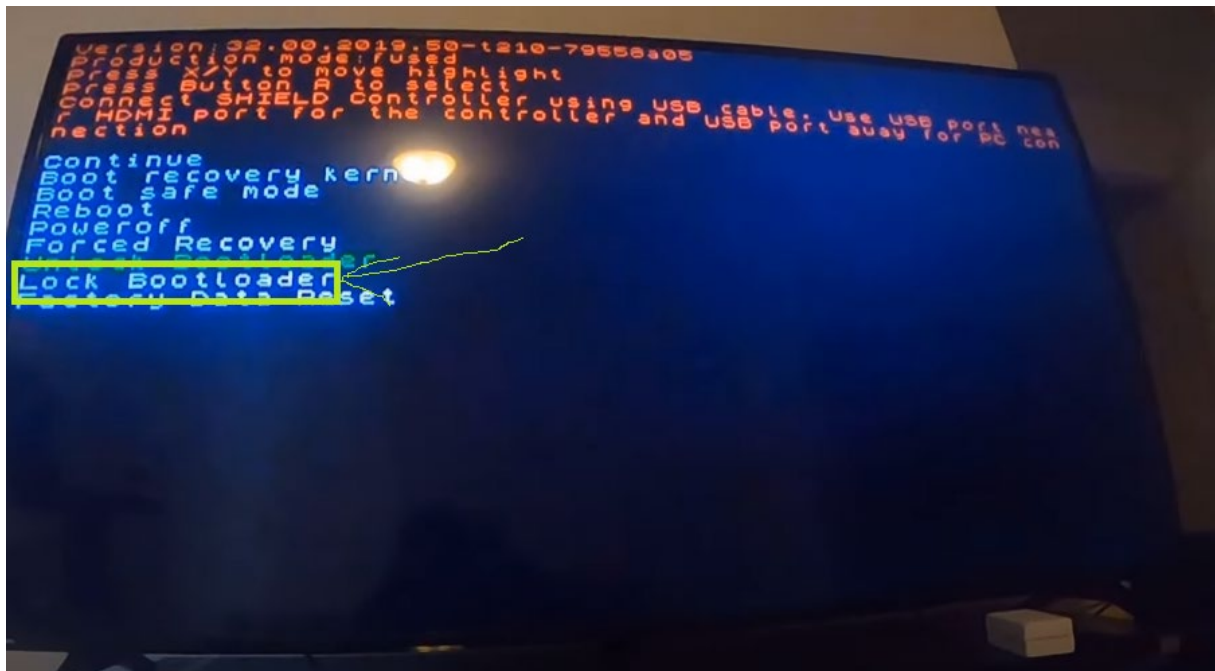




Spoiler: LOCK BOOTLOADER

WORKS FOR STOCK ONLY FIRMWARE RIGHT NOW

Remember to Lock your bootloader when you're done flashing your firmware if you want to use AI upscaling and other features. Just reboot into the bootloader, then select lock bootloader.



Spoiler: TWRP

For those that need:

[TWRP.zip](#)

 drive.google.com

Spoiler: NVIDIA ANDROID FIRMWARE SOURCE CODE

Spoiler: 9.0.1 - ALL MODELS

[nvidia-9.0.1.zip](#)

 drive.google.com

Spoiler: 9.0.0 - ALL MODELS

[Nvidia-9.0.0.zip](#)

 drive.google.com

Spoiler: 8.2.3 - ALL MODELS

[nvidia-8.2.3.zip](#)

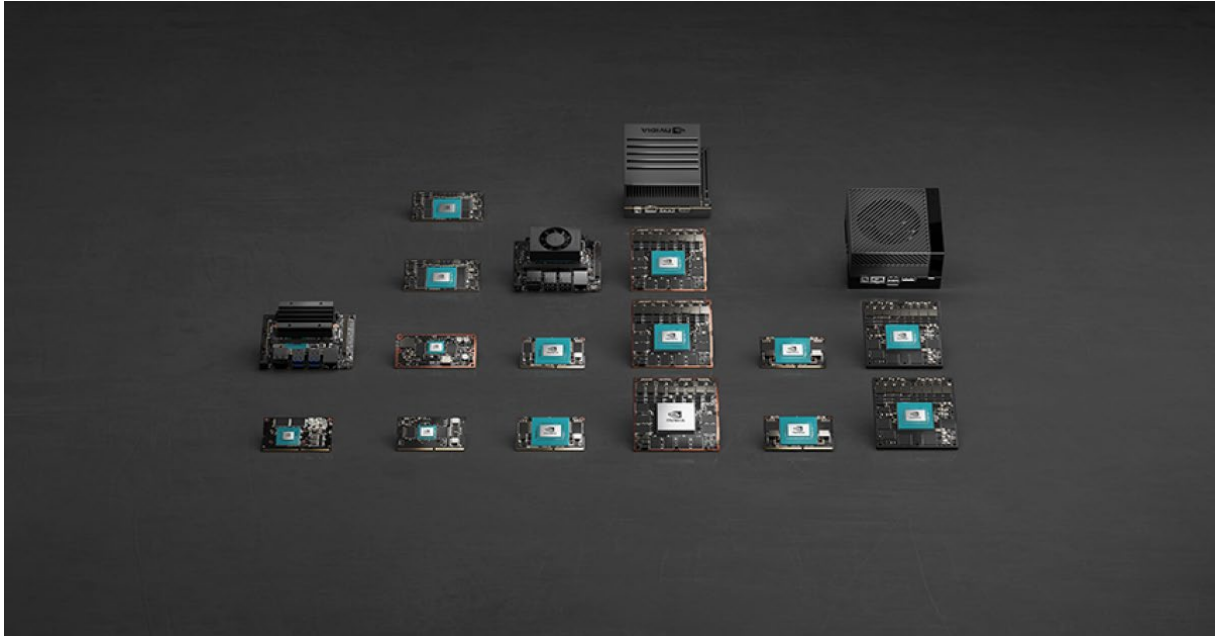
 drive.google.com

SOURCE: <https://developer.nvidia.com/shield-open-source>
[Instructions for downloading the repo yourself](#)
[Some limited knowledge regarding these open source shares](#)

TO USE:

(WITH THE SHIELD IN THE BOOTLOADER MENU)SIMPLY RUN ERASE ALL PARTITIONS FILE, THEN SHIELD ROOT. REQUIRES ADB. SEE THE ADB PRE-REQS SPOILER FOR MORE INFO

SOURCE FOR SYSTEM IMAGES:

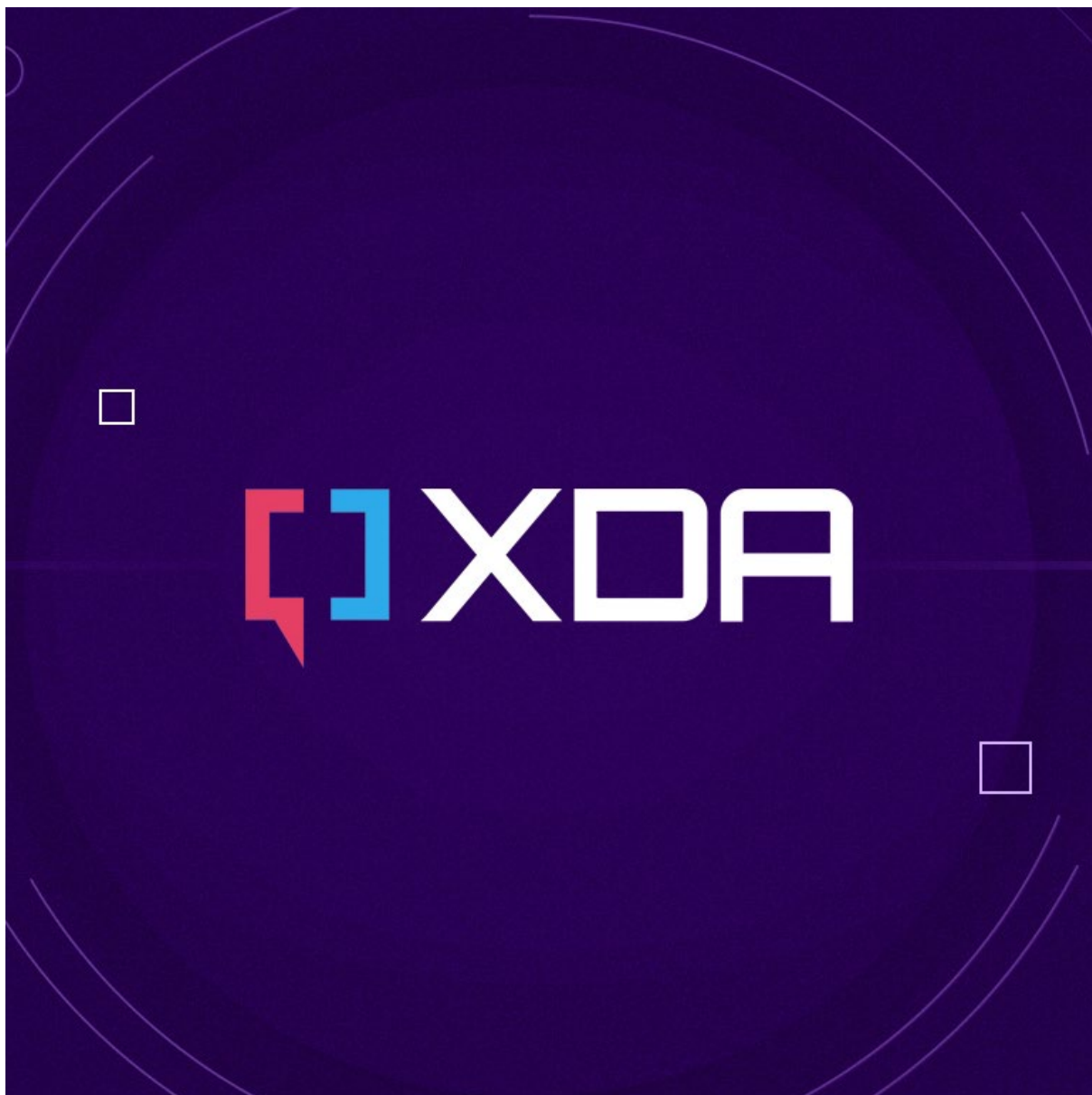


[Gameworks Download Center](https://developer.nvidia.com/gameworks/download)

Get the latest Gameworks software for your game development work.

developer.nvidia.com

IF YOU WANT ROOT ON STOCK FIRMWARE, SEE THIS GUIDE:



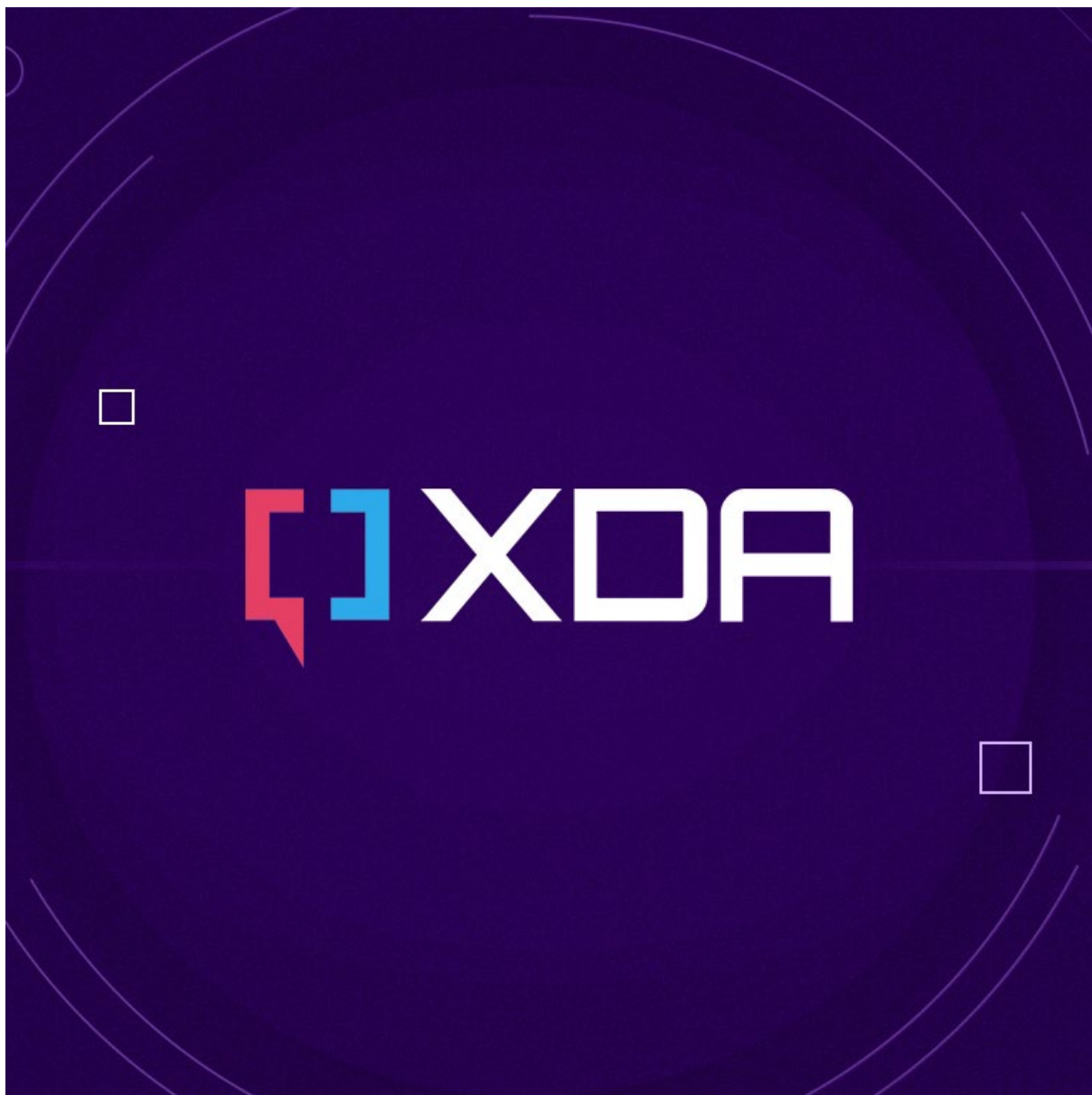
[BOOTMOD - Root your Shield In 1 minute \(2015, 2017, & 2019\)](#)

Hello Friends~! We now have a working method to achieve ROOT on STOCK Firmware! A script has been made that can boot your shield into the bootloader, erase the old boot, flash the new boot, and install your choice of Magisk apk for you. The...



forum.xda-developers.com

IF YOU WANT LINEAGE OS, SEE THIS GUIDE:



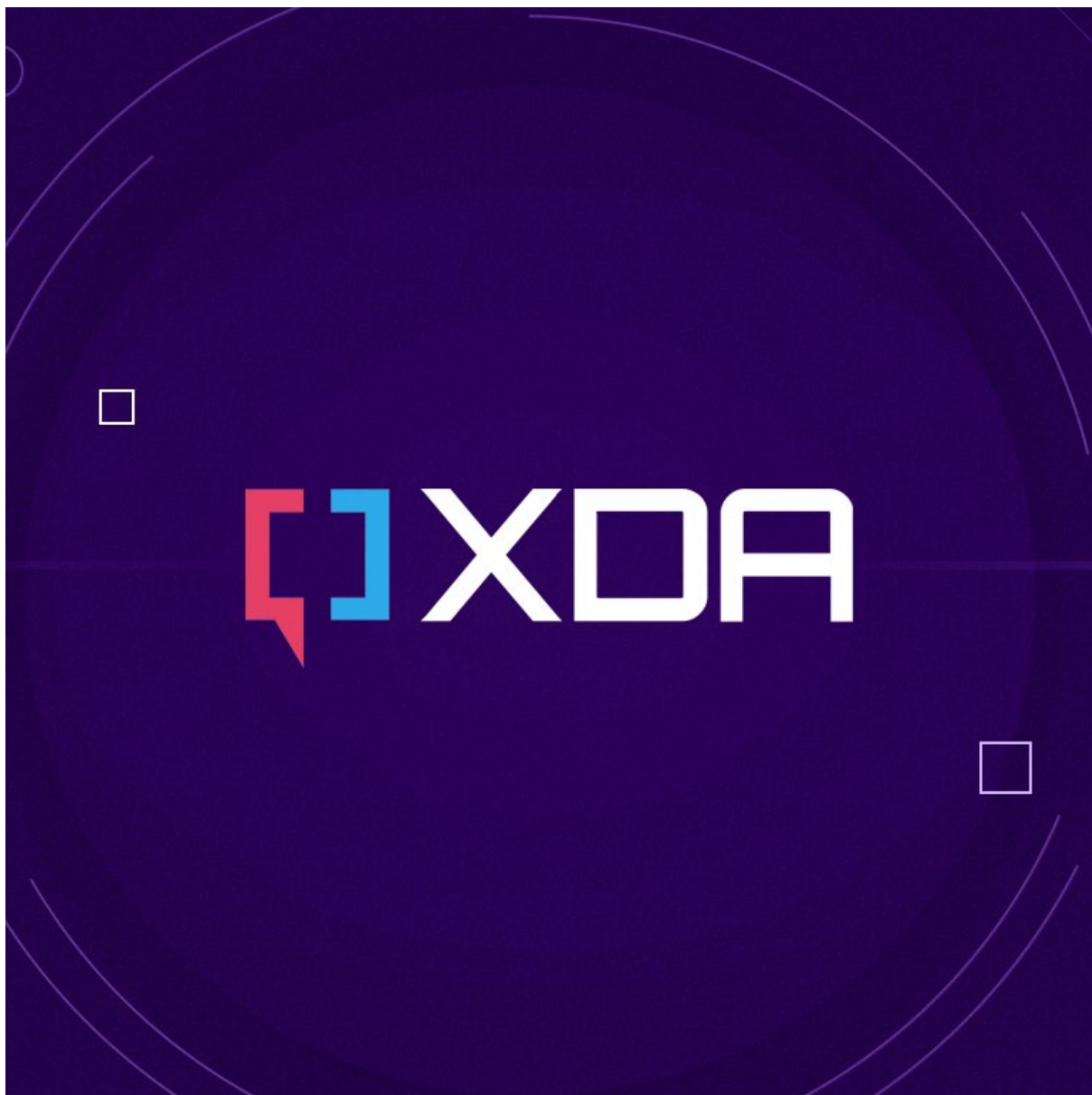
[How To Install Lineage OS on the 2019 Pro](#)

Hello Friends! Today I wanted to re-write a guide for installing Lineage OS on the 2019 Pro. This guide will be more to the point and have only the needed tools. The version of lineage used is of the 17 variant. SOME NOTES: This is not a...



forum.xda-developers.com

VERIFIED WORKING ON THE SHIELD:



[\[GUIDE\]\[NO-ROOT\] How to install Ubuntu and other Linux Distro's on Your Phone or Android TV Box, using Termux](#)

NOTICE: THIS METHOD IS ONLY FOR NON ROOTED DEVICES PROOT-DISTRO GITHUB PAGE Hello Friends! Today I wanted to start a thread that will house prebuilt Linux environments, as well as instructions for building the Linux environments yourself...



forum.xda-developers.com

A Very Special thank you to [@Manzing](#) for being a hero and taking the time to get the 9.1 boot image and OTA for the 2017 shield!!!

Last edited: Apr 15, 2023



[jenneh](#)

Senior Member

Spoiler: SHIELD SDK AND DOCUMENTATION

Something new I hadn't seen on gameworks before, an actual development link for the Shield. It includes an SDK for the Shield. For anyone interested.

Well it was probably already there and I probably already saw it but yeah.

[NVIDIA SHIELD](#)

Get the best Android development tools for NVIDIA SHIELD: the ultimate Android gaming family. The NVIDIA® SHIELD™ family of devices provide the most immersive Android gaming and media experience. They are built on the Android operating system - the most popular mobile OS in the world. Powered by...


developer.nvidia.com

Home > GameWorks > SHIELD > NVIDIA SHIELD

NVIDIA SHIELD

Get the best Android development tools for NVIDIA SHIELD: the ultimate Android gaming family.

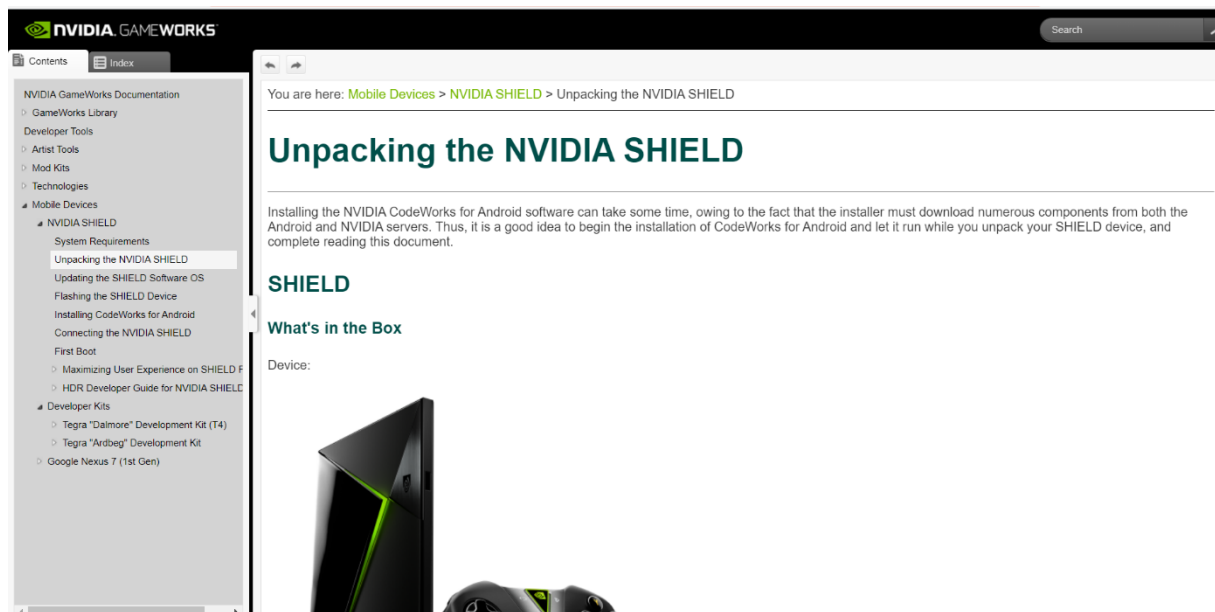
The NVIDIA® SHIELD™ family of devices provide the most immersive Android gaming and media experience. They are built on the Android operating system - the most popular mobile OS in the world. Powered by the advanced NVIDIA Tegra® mobile processor, console quality game controllers and stunning 4K & HD video and high fidelity audio, NVIDIA SHIELD redefines what gaming can be.



Get Started!

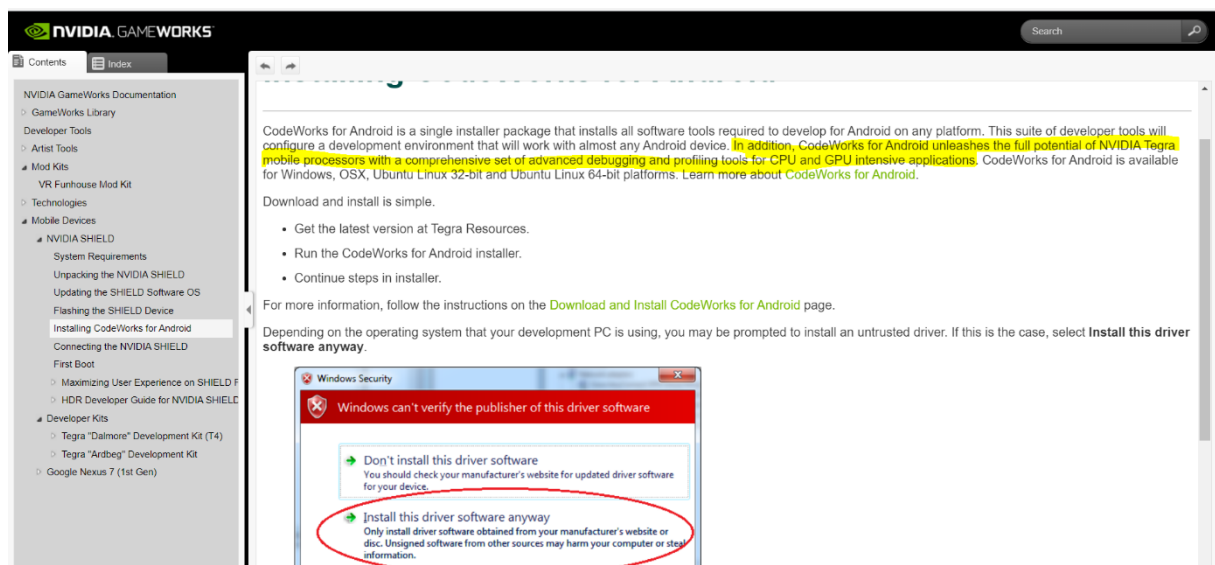
- Step 1: Become a Registered Developer
- Step 2: Setup SHIELD for Development
- Step 3: Get the SHIELD SDK
- Step 4: Discover GameWorks
- Step 5: Learn about SHIELD
- Step 6: Join the Discussion
- Step 7: Get Exposure for your Great Games

There's also extensive documentation in gameworks



[NVIDIA GameWorks Documentation](https://docs.nvidia.com/gameworks/index.html)

docs.nvidia.com



CODEWORKS:

[CodeWorks-1R8-windows_b181.exe](https://drive.google.com/file/d/1R8-windows_b181.exe/view)



[NVIDIA GameWorks Documentation](https://docs.nvidia.com/gameworks/index.html)

docs.nvidia.com



CodeWorks for all Android Developers

NVIDIA CodeWorks for Android provides a full suite of development tools supporting all Android devices. In addition, it unleashes the full potential of NVIDIA Tegra mobile processors with a comprehensive set of advanced debugging and profiling tools for CPU and GPU intensive applications. If you want to be on the bleeding edge of Android development, use the NVIDIA SHIELD family of devices to target gamers who yearn to play whenever, wherever, and however they want.

For more information on developing with NVIDIA SHIELD including developer tools, samples and tutorial support, please visit:
<http://developer.nvidia.com/develop4shield>

< Back

Next >

Cancel

☒ Standard ☐ Full ☐ Custom

Clear Actions

Package	Installed Version	Size	Action	Progress
Developer Tools			install	
Nsight Tegra, Visual Studio Edition	-	77MB	install 3.6	.....
Nsight Graphics	-	514MB	install 2019.3.0	.....
Nsight Systems	-	293MB	install 2019.4.3	.....
NVTX	-	312KB	install 1.0	.....
USB Driver for Shield	-	26MB	install 2	.....
Android Toolchain			install	
Android NDK	-	1720MB	install 18b	.....
Java SDK	-	296MB	install 1.8.0_77	.....
Gradle	-	81MB	install 4.4.1	.....
USB Driver for Android Devices	-	17MB	install 11	.....
Android SDK			install	
Android SDK Base	-	171MB	install 26.1.1	.....
Android Platform Tools	-	26MB	install 28.0.3	.....
Android Build Tools	-	120MB	install 28.0.3	.....
Android Support Library	-	24MB	install 23.2.1	.....
Google Play services	-	98MB	install 49	.....
Android Support Repository	-	371MB	install 47	.....
Google Repository	-	235MB	install 58	.....
Android SDK Platform 28, Android 9....	-	172MB	install 9	.....
Android SDK Platform 27, Android 8....	-	143MB	install 8.1.0	.....

Description Disk Space




Nsight Tegra, Visual Studio Edition is an Tegra Android development environment integrated into Microsoft Visual Studio.

☐ Automatically resolve dependency conflicts

Stop

Pause

Next



NVIDIA CodeWorks for Android 1R8 Components Manager

☒ Standard
☐ Full
☐ Custom
Clear Actions

Package	Installed Version	Size	Action	Progress
Nsight Graphics	-	514MB	install 2019.3.0	.....
Nsight Systems	-	293MB	install 2019.4.3	.....
NVTX	-	312KB	install 1.0	.....
USB Driver for Shield	-	26MB	install 2	.....
Android Toolchain			install	
Android NDK	-	1720MB	install 18b	.....
Java SDK	-	296MB	install 1.8.0_77	.....
Gradle	-	81MB	install 4.4.1	.....
USB Driver for Android Devices	-	17MB	install 11	.....
Android SDK			install	
Android SDK Base	-	171MB	install 26.1.1	.....
Android Platform Tools	-	26MB	install 28.0.3	.....
Android Build Tools	-	120MB	install 28.0.3	.....
Android Support Library	-	24MB	install 23.2.1	.....
Google Play services	-	98MB	install 49	.....
Android Support Repository	-	371MB	install 47	.....
Google Repository	-	235MB	install 58	.....
Android SDK Platform 28, Android 9.0.0 (Pie)	-	172MB	install 9	.....
Android SDK Platform 27, Android 8.1.0 (Oreo)	-	143MB	install 8.1.0	.....
Android SDK Platform 21, Android 5.0.1 (Lollipop)	-	121MB	install 5.0.1	.....

Description

Disk Space


Nsight Tegra, Visual Studio Edition is an Tegra Android development environment integrated into Microsoft Visual Studio.

☐ Automatically resolve dependency conflicts

Stop

Pause

Next

Last edited: Nov 6, 2022