



[Downgrade NVIDIA Shield TV \(Pro\) 2019 to v8.2.3 \(full\)](#)

This page contains a **complete guide** in 12 steps for downgrading your NVIDIA Shield TV (Pro) 2019 back to NVIDIA Shield OS v8.2.3 (*Android TV Version 9, build of april 2021*).

Welcome!

If you read this, you probably also got sick and tired of (unwanted) updates and those unacceptable ads on the top of your home screen....

Downgrade to v8.2.3 in 12 steps (*updated april 2023*)

1. [Hardware check](#)
2. [Preparation, download files and unpack folders](#)
3. [Connecting cables](#)
4. [Enable developer mode & USB-debugging](#)
5. Open [command prompt](#) and navigate to *adb.exe*
6. [USB Connection check](#)
7. [Load fastboot mode](#)
8. [OEM unlock](#)
9. [Flash images](#)
10. [OEM lock](#)
11. [Reboot](#)
12. [Disable auto-updates and upgrades](#)

[Update: After 1 year (*april 3rd, 2023*)]

Tried latest firmware (9.1.1) last week...

Nvidia is working on updates always so I tried the latest 9.1.1 OS update for my Shield Pro. Unfortunately Kodi 20.1 Nexus is running a bit better and I had my hopes up, for a little while at least.

After installing my Kodi-build it seemed to run smooth but after a while it started getting jittery and a got a freeze-frame-app for about a minute!? Even after full-debloating and turning of ALL Google background processes it still runs slow as fck.

Sigh, it looks like new hardware is needed on Android 11 (pushing ads and collecting telemetry takes around 35% of capacity, wtf?).

Okay, quickly back to 8.2.3 again 😊

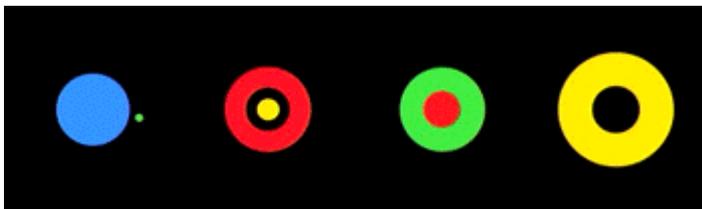
My device is downgraded and in use for a whole year now and I'm enjoying every minute of it: No more app-crashes, better experience and superfast navigation and also switching between apps runs smooth as It has truly never worked better and I'm amazed with the increase in speed when running on 8.2.3.

But then again, I disabled a lot of background services/apps and installed custom home screen this time

[Guide here.](#)

My setup

- **Nvidia Shield TV Pro 2019**
 - **Android 9 with Nvidia Shield OS 8.2.3 (april 2021)**
 - Disabled lots of (background-)apps, ([guide here](#))
 - [optional] Custom Launcher app, *for custom Home screen loader*
 - [optional] Wolf Launcher, *for custom Home screen*
 - **Build RQ1A-210105..... (january 2021)**
 - **Apps used:**
 - Kodi 20.1 (+ Custom skin), *with addons;*
 - Plex (*client app*)
 - Youtube app
 - **Any phone or tablet with "Kodi Remote" or "Kore" for Android.**
- **Shield TV remote (latest)**
- **Logitech MX Master**
- **Playstation Dual Shock 4**

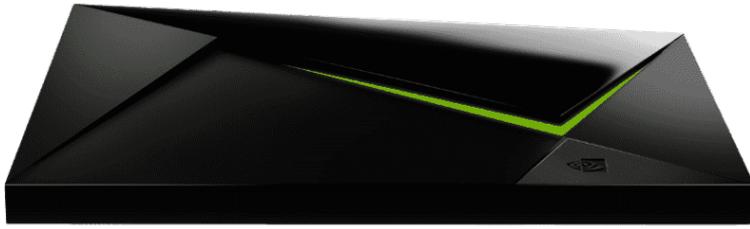


animation 😊

Our 'old familiar' Android boot logo

[Skip the bullshit and let me get back my awesome media center!](#)

Why?



I made this page because I needed a complete manual and cheat-sheet for myself anyway and this way it can also be useful for fixing your device.

This idea started out as a-simple-one-page-cheat-sheet and quickly grew into a couple of weeks with evenings of tumbling down a rabbit hole, eating funny cookies and dining with some wierd animals but in the end managed to made it work better, stronger and faster then ever. *We've had it along, just didn't realised it yet...*

Now i'm getting a better understanding in the Android (TV) OS and its debugging options, features, inner workings and tools. It took a long time, lot's of patients to get all required information, tools and software for this little box. *Hang in there...*

Hope this instruction will help to also fix YOUR Shield TV and bring back the ultra-fast mediastreamer and gameconsole that it can, and should be.

Around december 2021 NVIDIA released a major update for their Shield TV Pro, their very affordable flagship-4K-streaming-device (€ 200,- EUR or \$ 222,- USD).



When bought, the Shield TV Pro 2019 was working perfectly! Hooked up to my Samsung 4K OLED TV the device was running Kodi or Plex-app for playing full Blurays and other videos over LAN, seamlessly I might add.

Ever since the update to Android 11 and Shield TV OS 9.0.0 my device had become unworkable and took all the joy out of watching a movie or series.

In my research I noticed that more people are experiencing the same problems...hence this instruction manual.

When bought in early 2020 my Shield TV was working perfectly,

but every since Android 11, NVIDIA Shield OS 9.0.1

it was too running slow and caused many crashes. Also those fckng ads in the home screen 😞

and also hated the shitty advertising in the home-screen and disabling of third-party-app-support and accessibility to the OS.

Android 11 and Shield OS version 9

As a manufacturer there's nothing wrong with updating your device to offer new features, apps and services but it seems that the latest "upgrade" is only good for showing ads and reading your activities.

1. Ads in homescreen, wtf, WTF, WTF???

An all new ad-pushing home screen happily welcomes you to all new Disney and Amazon content, now needly embedded in your home screen. And no way to turn them off, even when removing the apps that the widget promotes. Aaaah. 😞

2. Background processes

Also with many (re-)newed background processes to keep your active apps stuttering and clattering while google and partners recieve, and get to push and recieve, all kinds of information from and to your device. Stop feeding Rehoboam goddamnit!

3. Telemetry

Telemetry data collecting has also 'upped the ante' and google and partners know every event in their little spyboxes.

All in the name of 'just trying to send you personalized ads', that you agreed yourself when installing for the first time... you didn't read? 😞

4. Slowing down device drasticly

With this new update, the device slows down drasticly and creates alot of new errors and crashes in Kodi and Plex-app. So playing your own high-res media has become unworkable and sucks all the joy out of the experience. 😞

5. Laggy playback and audio sync

Somethimes video would play with the audio out of sync., mostly in Plex-app. Kodi crashes everytime with KodiPlexConnect installed. Also IPTV streams were running slow 'al of a sudden' 😞

6. Audio passthrough?

DTS, DTS-HD MA and EAC3 5.1 and 7.1 surround codecs weren't playing properly and lagging sometimes. Didn't look into it...but my surround system did not recognize any codec. 😞



Your system is up to date

Last checked on mrt. 01, 2022 03:40:57 p.m.

Version: 9.0.1(33.1.0.283)

Check Now

Over

Versie

11

Netflix ESN

Unknown

Niveau van Android-beveiligingspatch

5 januari 2022

Kernel-versie

4.9.141-tegra-g6d1955e0ca8d-dirty
#2 Sat Feb 5 00:12:52 PST 2022

Build

RQ1A.210105.003.7094531_2971.7725

SHIELD Android TV SW Version

9.0.1(33.1.0.283)



Apps en games beheren > Updates

Updates beschikbaar (12)

Alles updaten



Chromecast built-in
1 nov. 2021
Nieuwe functies: - Bugfixes en prestatieverbeteringen



Backdrop Daydream
12 aug. 2021
Nieuwe functies: Bug fixes.



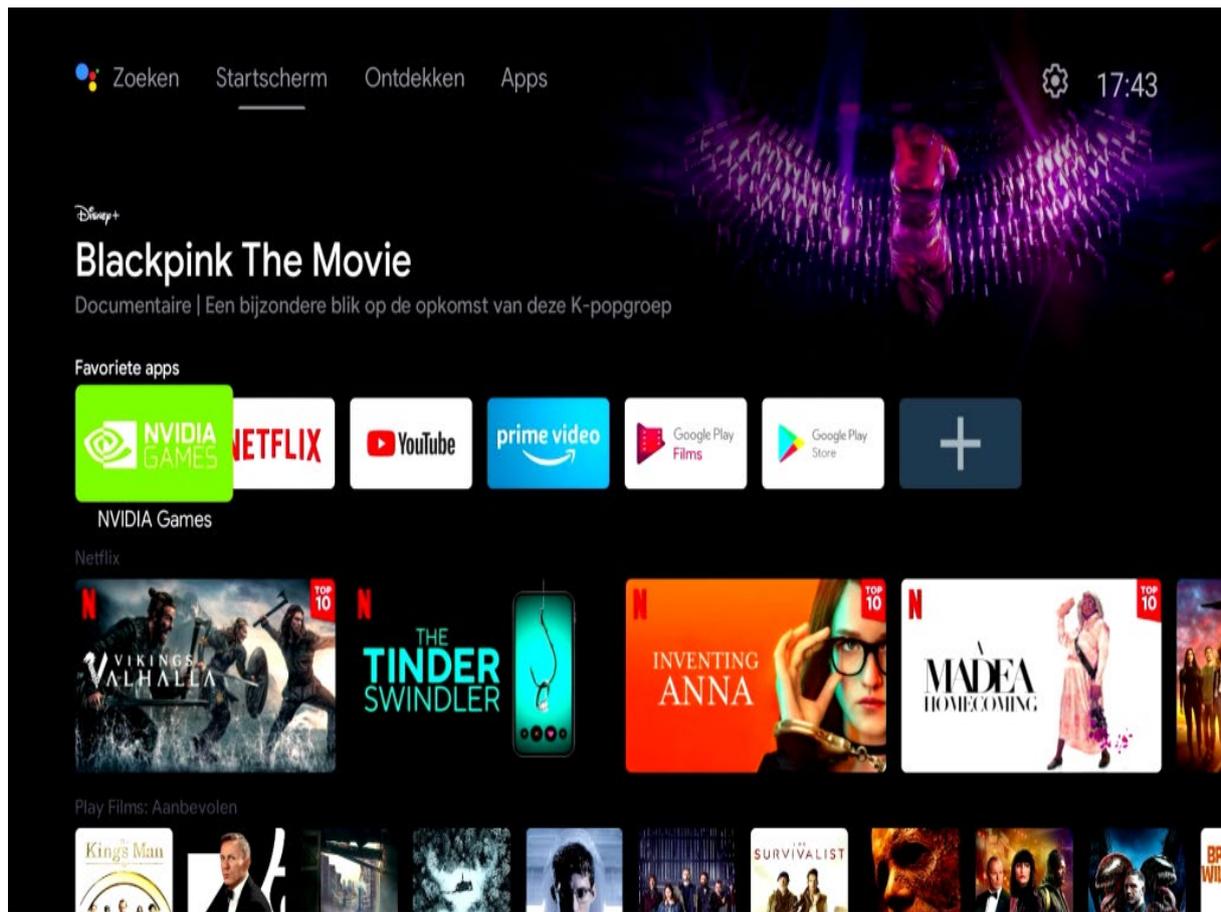
Gboard: het Google-toetsenbord
10 sep. 2021



Android Toegankelijkheidstools

Je SHIELD-ervaring wordt geüpgraded





Overall unworkably slow

After two months of irritation whenever I turned on the device, would watch something for 20 minutes and then again get surprised by a crash, notification or laggy playback and/or navigation and yet another new Disney movie on my screen, no no no no no no no no no nooooo.

Option A: Solve issues (*quit searching/begging for those in may 2022*)

I tried every possibility and nothing worked: reset, uninstall (app-)updates and even factory reset (twice, within Android-menu).

NVIDIA Support

Okay, maybe NVIDIA is working on a fix, I thought... there MUST be more shield-users with these problems. So I tried to contact support via mail, facebook, twitter and even filled in a few stupid forms on their websites and [forum](#).

(Still) no response from NVIDIA

After a few weeks of no response I searched the web, yet again. Signed up for NVIDIA SDK and searched 'within the organisation' on their pages, social media and forum. Starting to find more and more users there, and on youtube that are experiencing the same problems...finally.

Requested a hotfix @NVIDIA; and got it! I got my hopes up again. NVIDIA rules! 😊

[Update] Downloaded public release / hotfix 9.0.1 and it also didn't work, still the [same issues](#) that I had before in Kodi and Plex-app.

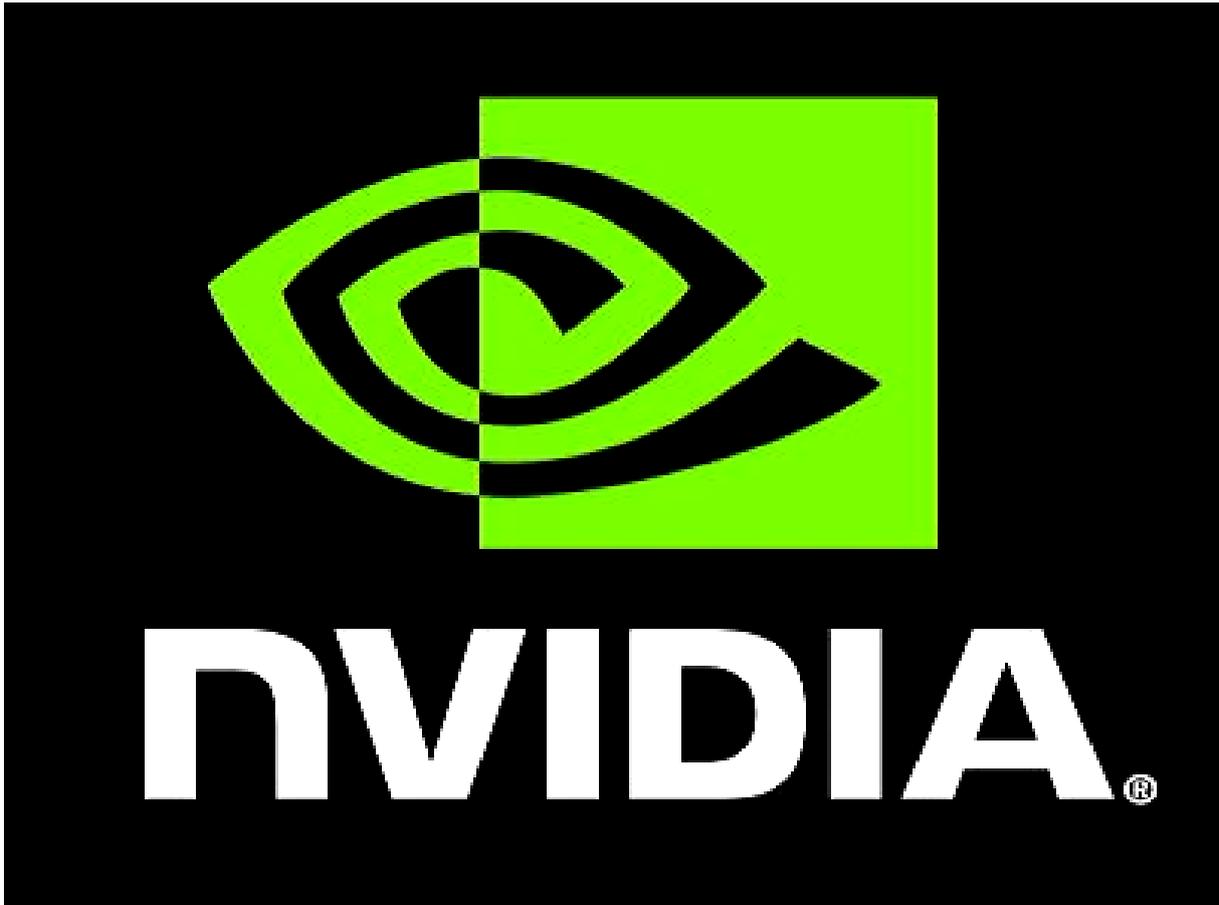
Option B: Smash with hammer

It nearly got up to [that point](#), yeah.

But no worries: [I made a proper solution C here](#)

Before this release...

Earlier it all worked like a charm in april of 2021 and it was the best media device I've bought in years. Fast hardware with full options, in a little box that consumes little energy and plays ALL 4k HDR formats with ALL audio codecs supported. Jeej.



[image-8](#)

Geen updates beschikbaar

Controleren op updates

Onlangs geüpdatet



Google app for Android TV

18 feb. 2022

Nieuwe functies: Google app for Android TV



NVIDIA Games

8 feb. 2022

Nieuwe functies:

- Het in-app uitlogproces wordt nu gedaan vanuit...

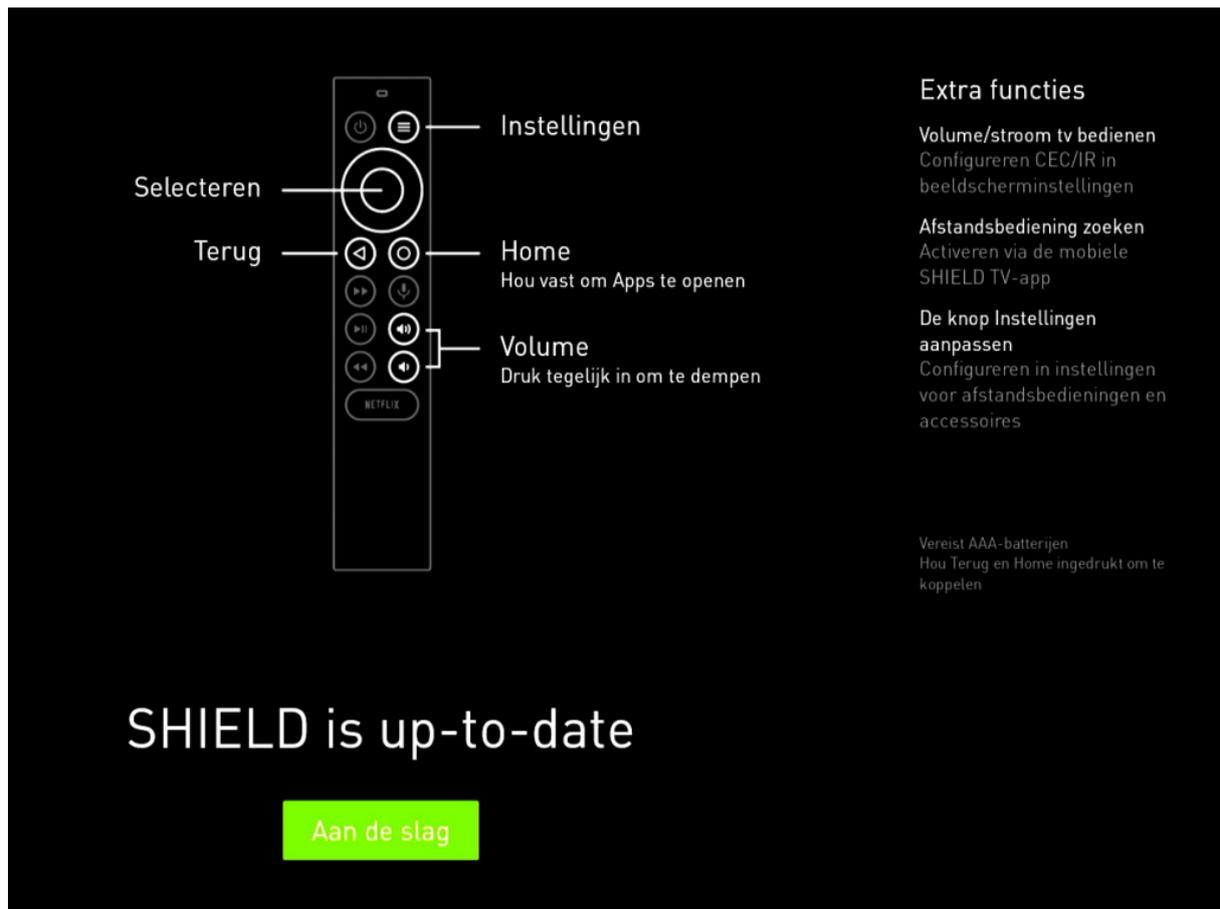


Netflix

10 feb. 2022

Nieuwe functies: • Foutoplossingen

[image-2](#)



[image-7](#)

Downgrade to v8.2.3

After a few long evenings of web searches and some 'Android-ADB-readin-up' I've discovered too many details, directly from NVIDIA SDK with additional information found on several discussion groups social media, forums and Google Android SDK.

It was a hassle to find the right tools and versions to make it all work. *There is sooooo much misinformation or outdated shite out there.*

After my own struggle the first time around, I made this proper guide. Along with software [downloads](#) with proper drivers.

Hopefully this will ease the process for you.

Hardware checklist

Below a checklist to make sure you got everything you need to complete the job.

- **NVIDIA Shield TV (Pro 2019), [current version 9.0.1 (33.1.0.283)]+ Power supply**
- **HDMI cable, and MUST STAY CONNECTED AT ALL TIMES to;**
 - **Screen or Display (HDMI);**
- **USB-wired-Keyboard or NVIDIA Game Controller;**
- **Windows PC or laptop (Win10 Pro x64 Phoenix OS used in this example);**

- USB male-to-male-cross-cable (*it's the only way, tried networking: not supported*);



[Check here how to solder your own with two spare cables.](#)

[Or order one here, like this one.](#)

Preparation

To properly downgrade your device, you need to prepare **two folders**, containing;

- Downloads

*for NVIDIA SHIELD TV *PRO* 2019*

Drivers, *for windows* (debug + fastboot)
'extract to c:\driver'

[Download](#)

~1MB

Command tools and 8 Images files (*Shield OS 8.2.3 images*)
'extract to c:\tool'

[Download](#)

~840MB

Check if you got the right device; Shield TV **Pro** or not.

for NVIDIA SHIELD TV 2019

Drivers, *for windows* (debug + fastboot)
'extract to c:\driver'

[Download](#)

~1MB

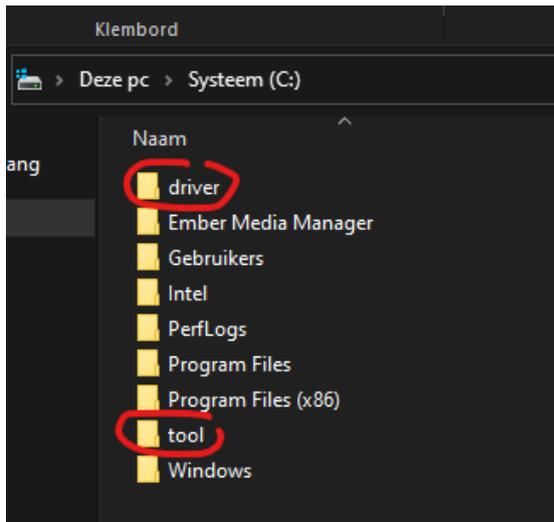
Command tools and 8 Images files (*Shield OS 8.2.3 images*)
'extract to c:\tool'

[Download](#)

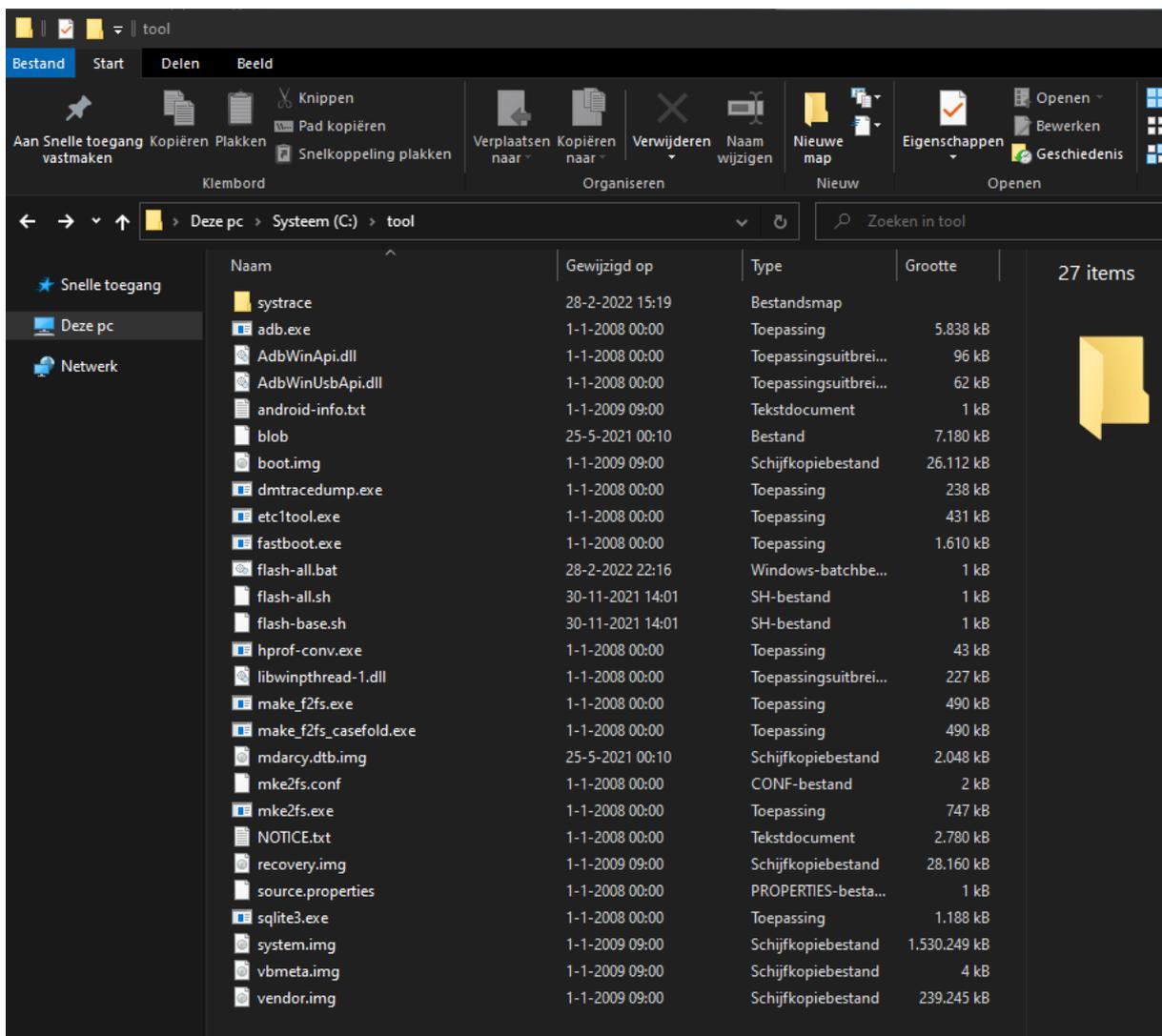
~606MB

- [Download files above](#) and extract them in the root of your c:\ drive (*or whatever folder you wish*)

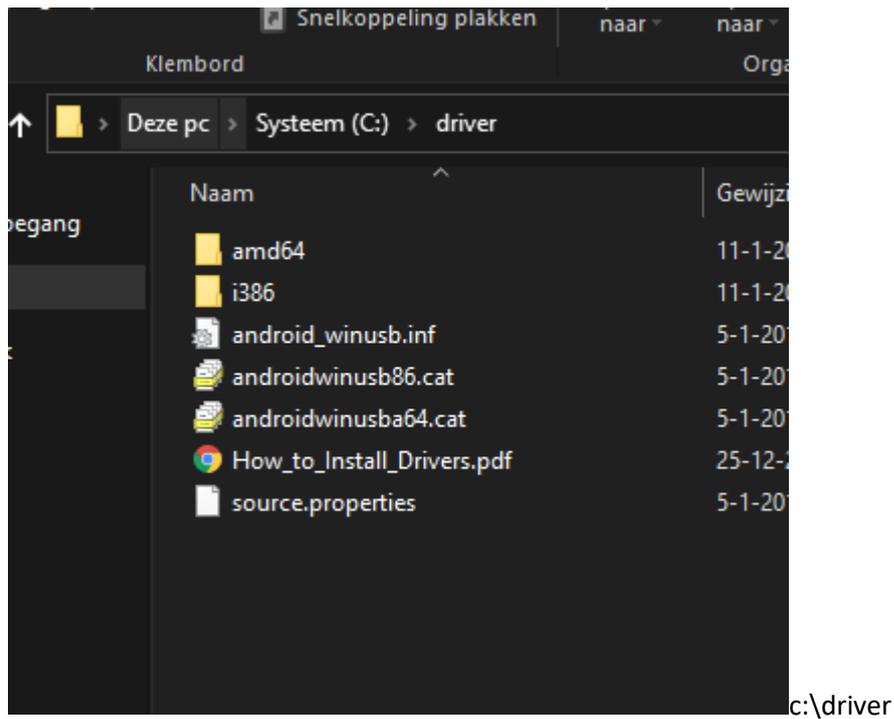
This will create two folders 'c:\tool' and 'c:\driver'



two new folders



c:\tool



Enable Developer mode & USB Debug on Shield

Simply enable developer mode in the Android settings on your Shield device

- **Settings – > Device settings -> About**

meer



22:39

Instellingen



Instellingen

 Opnieuw opstarten

 AI upscaling

Algemene instellingen

 Netwerk en internet
Ethernet verbonden

 Apparaatvoorkeuren

 Afstandsbedieningen en accessoires

 Apps

Apparaatvoorkeuren



Over



Display & Sound



System



Opslag



Startscherf



Toetsenbord
Gboard



Datum en tijd

- Tap 5x fast on -> Build

Niveau van Android-beveiligingspatch

5 januari 2022

Kernel-versie

4.9.141-tegra-g6d1955e0ca8d-dirty
#2 Sat Feb 5 00:12:52 PST 2022

Build

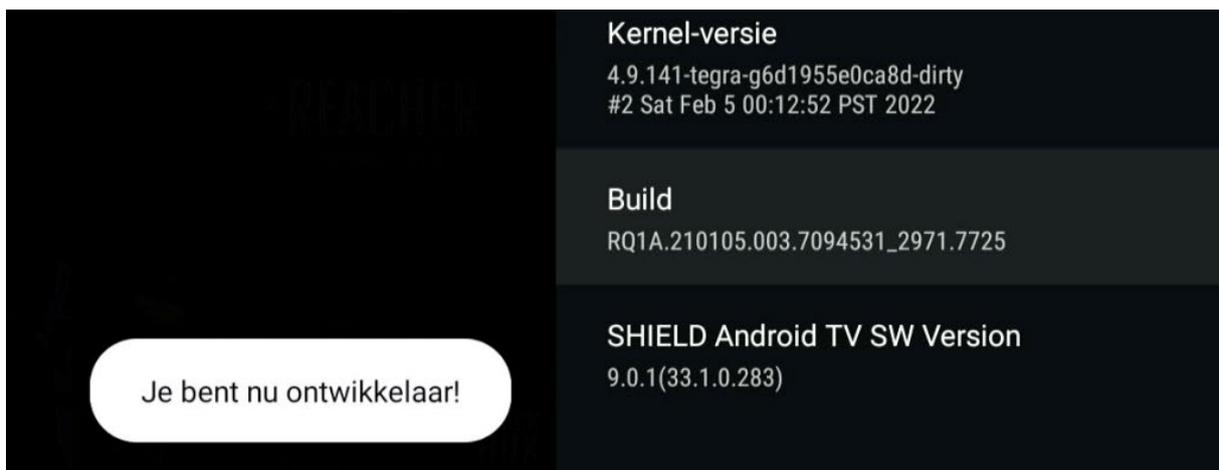
RQ1A.210105.003.7094531_2971.7725

SHIELD Android TV SW Version

9.0.1(33.1.0.283)

Tap on Build 5x fast

this will bring message pop-up with confirmation



Acknowledged!

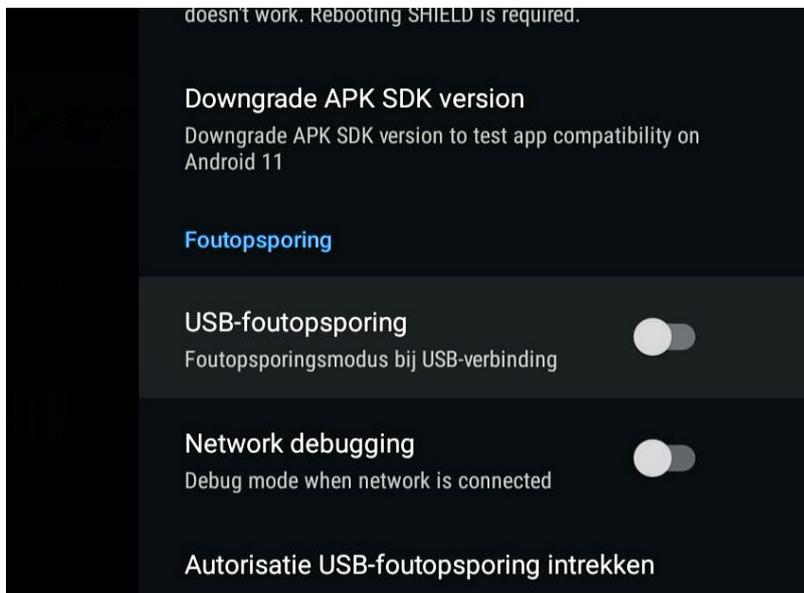
Now go back one step to

- -> **Device settings** -> *and scroll all the way down to*
- -> **Developers options**

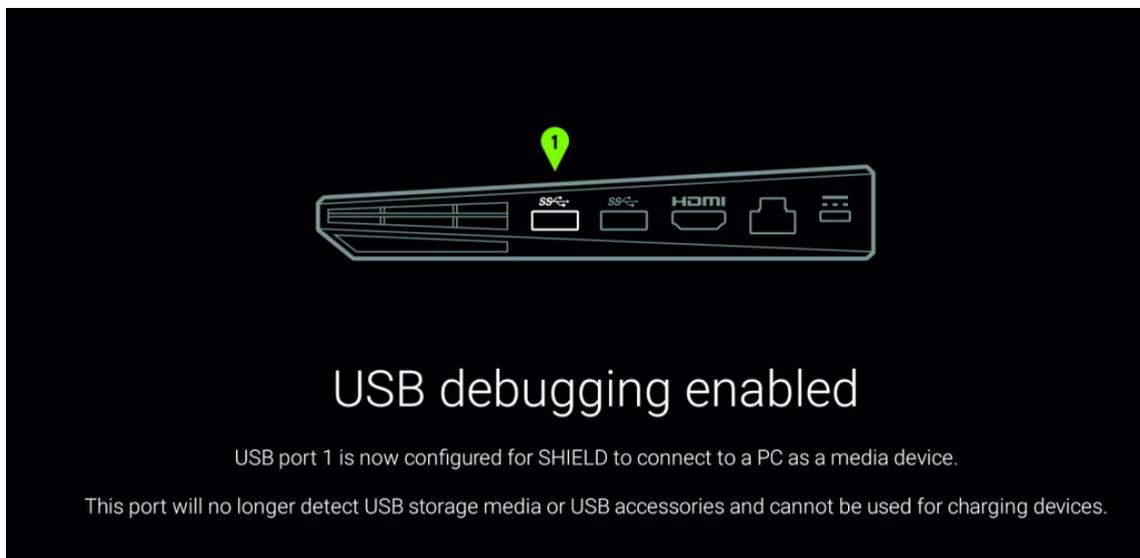


Scroll down and

- **Enable -> USB-Debugging**



This window will pop-up, we are now ready to connect cables.



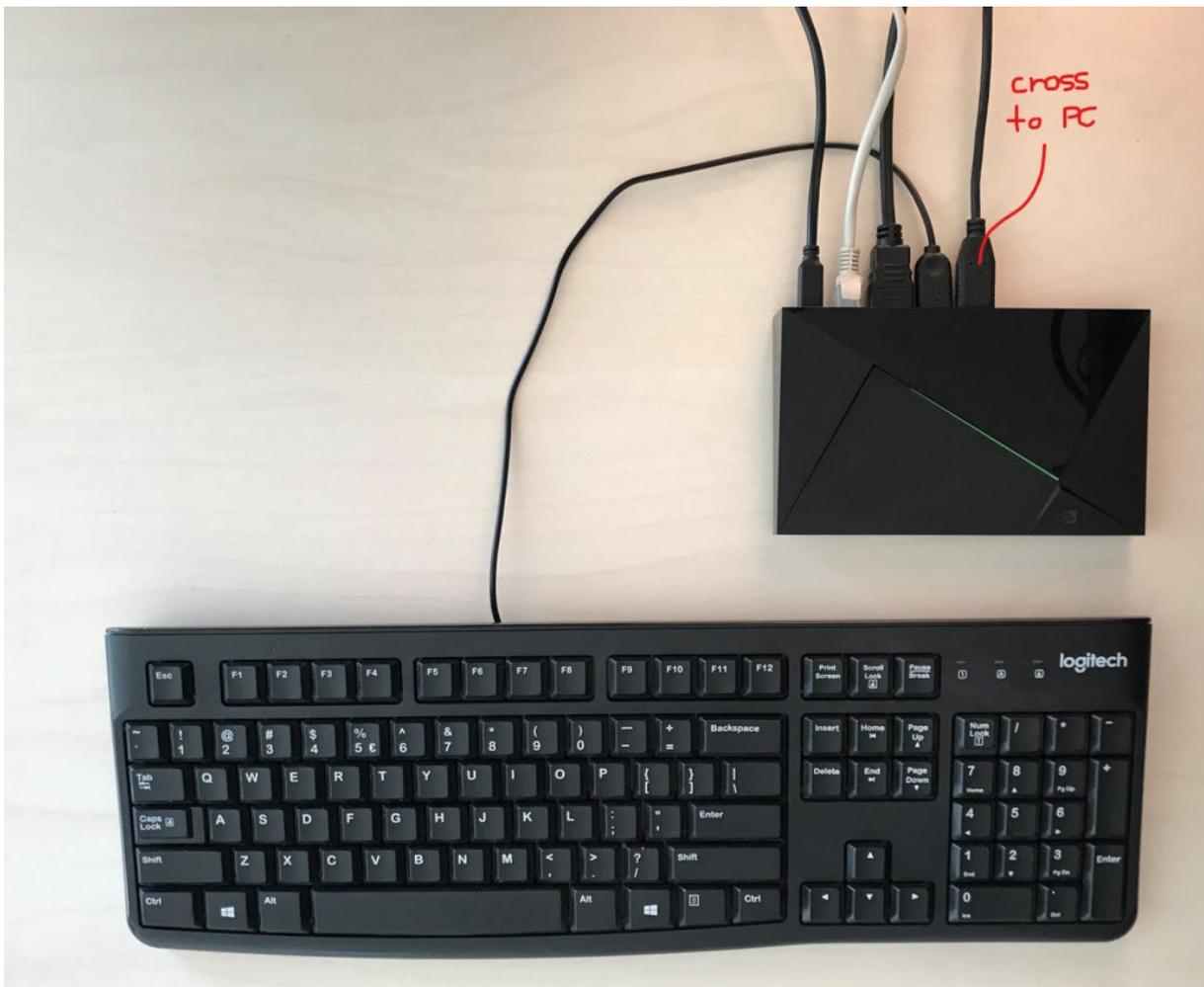
Connecting cables

First, two mandatory steps:

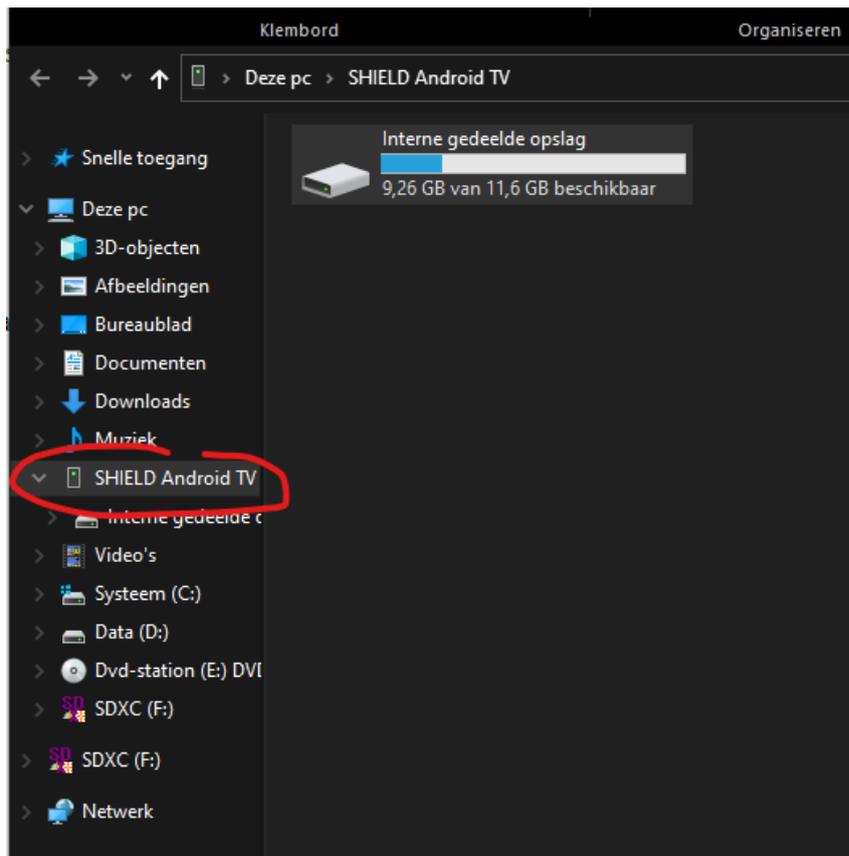
HDMI cable must be connected to a screen at all times!

Hotplugging the keyboard not *supported (in fastboot mode)*, also keep it connected at all times!

- Connect all cables, *like so*;



When connecting the USB-cross cable Windows 10 should automatically recognize the device and should open up a explorer-window with the Shield-shared-folder



if not: [install ADB driver manually instructions here.](#)

In my case: ADB Device was auto-installed by Windows but

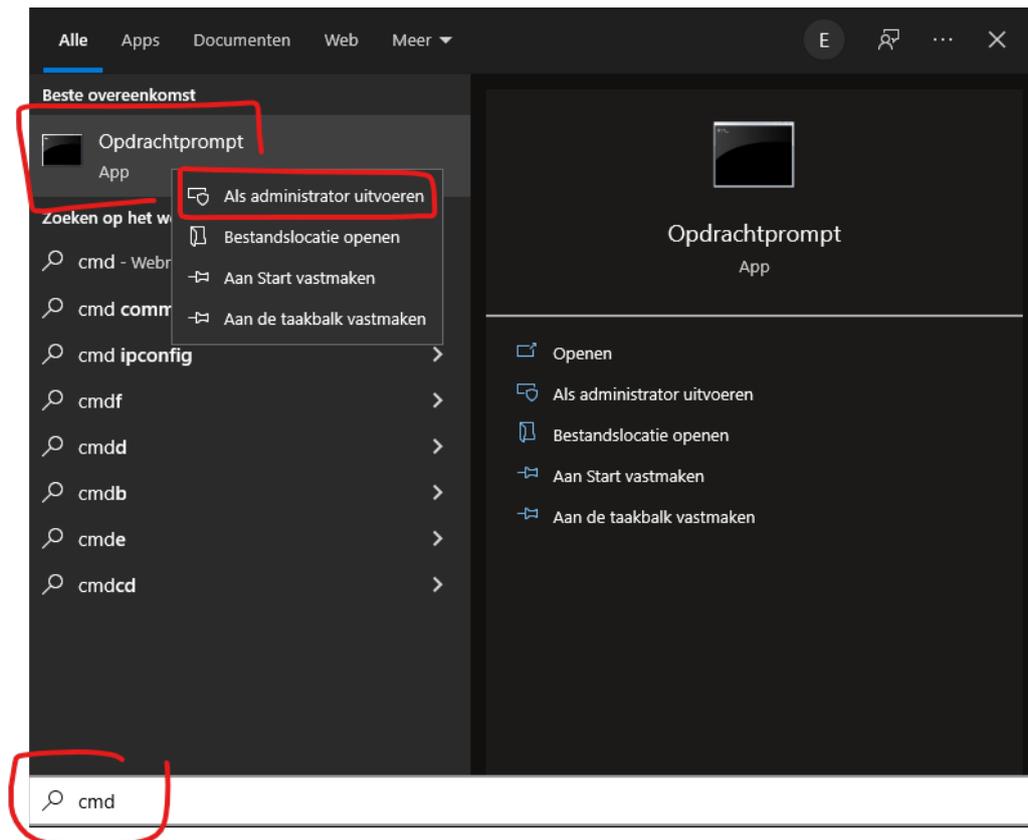
I had to install the driver for 'Fastboot-mode' [manually](#)

Command prompt

Now that the NVIDIA Shield is connected and the 'ADB is recognized' by windows,

*we need to open up a **command prompt** in **administrator mode**:*

- Press Windows START and type 'cmd',
- right-click on 'Command prompt' and choose
- 'Open as administrator'



- navigate to `c:\tool` by typing the following command:

`cd c:\tool`

```
C:\WINDOWS\system32>cd c:\tools
Het systeem kan het opgegeven pad niet vinden.
C:\WINDOWS\system32>cd c:\tool
c:\tool>
```

Proper folder selected,

check.

Let's connect!

USB Connection check

Now we can check if `adb.exe` can connect with the device (`adb-daemon-service` starts automatically)

- Type command:

`adb devices`

```
c:\tool>adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached
1324320000429  unauthorized

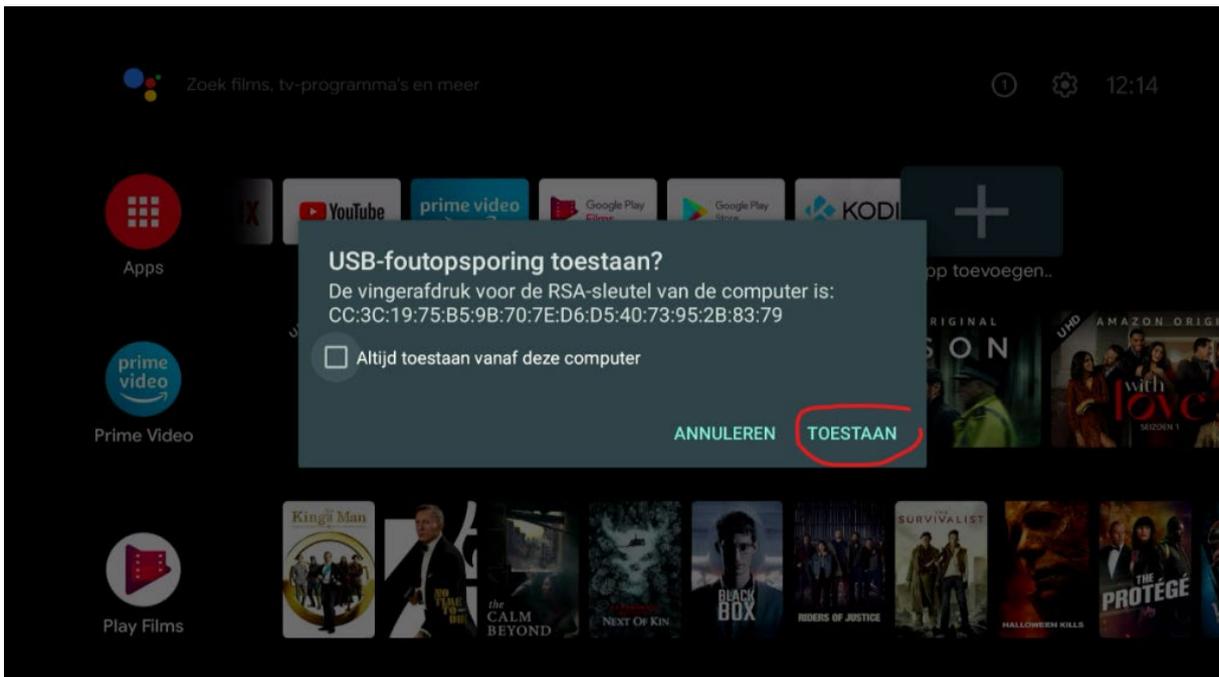
c:\tool>
```

The device is recognized but we

need

to authorize the connection on Shield device.

- Use the remote controller (or keyboard/gamepad) to authorize, select 'Allow'



- (re)Check if adb.exe is now authorized, by typing in the command window again:

adb devices

```
c:\tool>adb devices
List of devices attached
1324_20000429  device

c:\tool>
```

Now the device is connected and

authorized!

Okay, device connected and ready for [the next step](#).

Load Android to 'Fastboot mode'

Android bootloader on Nvidia Shield TV can be loaded in 3 ways, with [command prompt](#), [Nvidia gamecontroller](#) or [USB-keyboard](#).

a. With command prompt

Now that cables and connections are ready, we can reboot to 'fastboot mode' by

- **Type command:**

adb reboot bootloader

```
c:\tool>adb reboot bootloader  
c:\tool>
```

No confirmation is given

b. With Shield Game controller

Reboot to 'fastboot mode' is also supported with the NVIDIA game controller

1. **Unplug power adaptor**
2. **Press and hold A+B buttons**
3. **Plug-in power adaptor**
4. **Release A+B**
when fastboot screen is visible

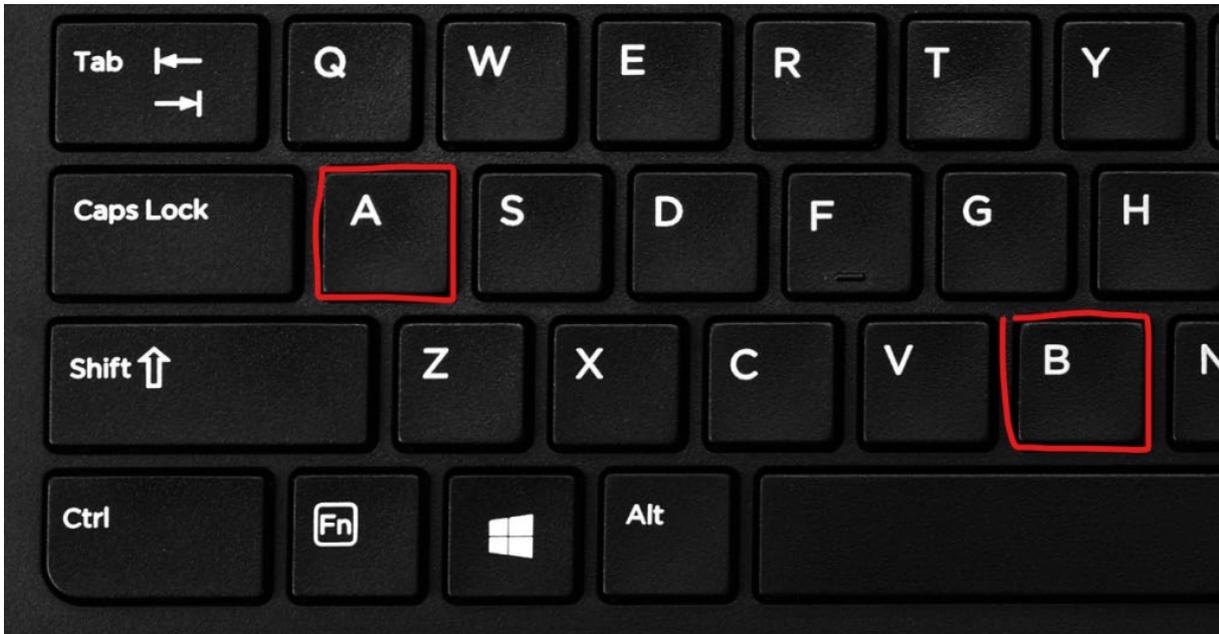


c. with USB-keyboard

Reboot to 'fastboot mode' is also supported with a USB keyboard (no hotplug support!)

1. **Unplug power adaptor**
2. **Press and hold A+B keys**

3. Plug-in power adaptor
4. Keep holding A+B
fastboot screen appears;



Shield will now reboot to 'Fastboot mode' and will output the following display:

```
Version:32.00.2019.50-t210-69ebfcb2
Production mode:fused
Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC connection
Continue
Boot recovery kernel
Boot safe mode
Reboot
Poweroff
Forced Recovery
Unlock Bootloader
Lock Bootloader
Factory Data Reset
```

Congratulations; you are now in 'fastboot mode',
continue with a [connection check](#).

Fastboot connection check

Similar to 'adb.exe', we now have to switch to 'fastboot.exe' and its USB connection. To make sure this works, follow these steps:

- In the command prompt, type:

fastboot devices

```
c:\tool>fastboot devices  
  
c:\tool>
```

If the output is empty, **no device is recognized**.

This means that the 'fastboot USB driver' **has to be installed manually**.

This was necessary in my case: After **manual installation**, continue to next step

- In the command prompt, (re)type to check the connection (***at any time***)

fastboot devices

```
c:\tool>fastboot devices  
  
c:\tool>fastboot devices  
1324320000429 fastboot  
  
c:\tool>
```

recognized!

Yes, device now

After the 'fastboot mode' is connected continue with the **OEM unlock**

OEM Unlock

Before downloading and flashing the images to the device we **have to** unlock the bootloader.

- Select 'Unlock bootloader'
 - with keyboard press 'ENTER' or gamepad 'A'

```
Version:32.00.2019.50-t210-69ebfcbe
Production mode:Used
Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC con
nection

Continue
Boot recovery kernel
Boot safe mode
Reboot
Poweroff
Forced Recovery
Unlock Bootloader ←
Lock Bootloader
Factory Data Reset
```

Fastboot screen: Select by keyboard or gamepad

- Select 'Confirm'
- *with keyboard press 'ENTER' or gamepad 'A'*

```
!!! READ THE FOLLOWING !!!
If you lock the bootloader, all personal
data from your device will be automatically
deleted (a "factory data reset") to
prevent unauthorized access to your
personal data.

Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC con
nection

Confirm ←
Back to menu
```

Bootloader is now unlocked! Continue with [flashing the images...](#)

Flash images

Once the devices' [OEM is unlocked](#), we can proceed with flashing the bootloader and Android- and NVIDIA-OS images.

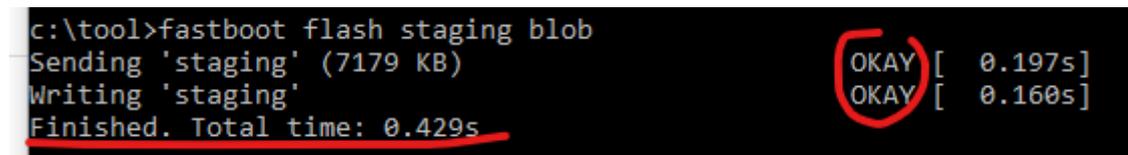
This will only work if the [Fastboot connection check](#) was successful

- Switch back to the command prompt again and type/copy the following commands;

Rule by rule, in this order (!important)

- fastboot flash staging blob
- fastboot flash boot boot.img
- fastboot flash recovery recovery.img
- fastboot flash dtb mdarcy.dtb.img
- fastboot flash system system.img
- fastboot flash vendor vendor.img
- fastboot flash vbmeta vbmeta.img

```
c:\tool>fastboot flash staging blob
Sending 'staging' (7179 KB)
Writing 'staging'
Finished. Total time: 0.429s
```

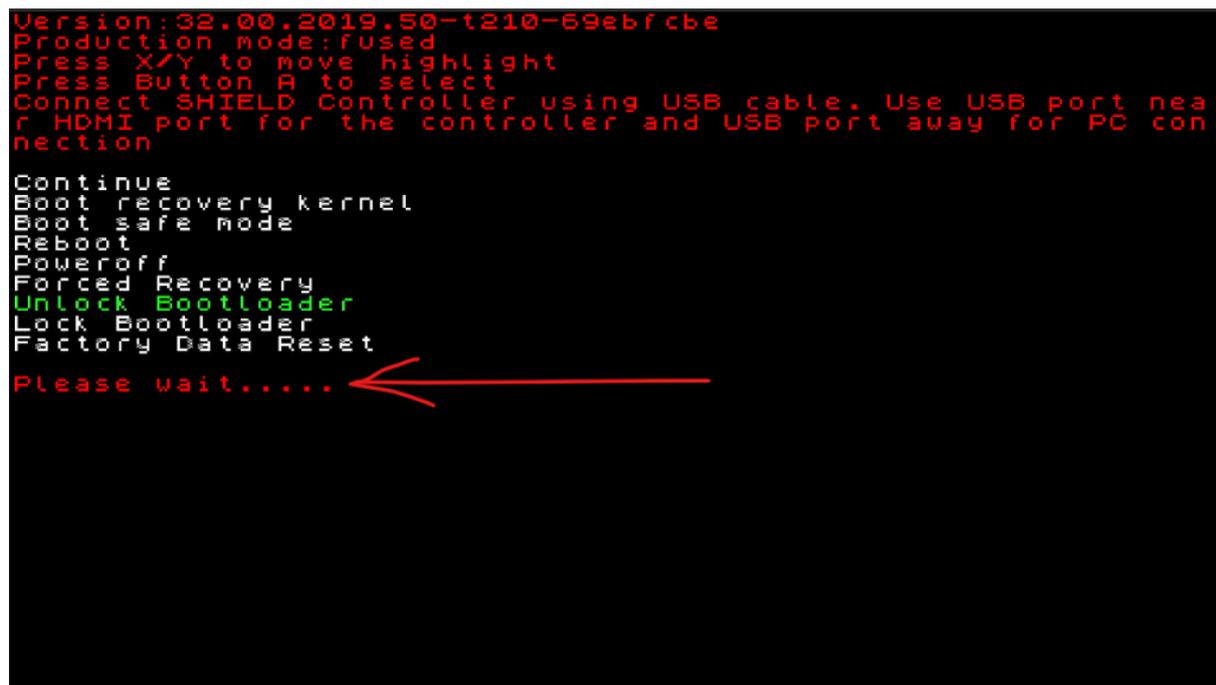


Confirmation is given **after each command**

On the 'fastboot screen' progress is also shown;

```
Version:32.00.2019.50-t210-69ebfcbe
Production mode: fUsed
Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC connection

Continue
Boot recovery kernel
Boot safe mode
Reboot
Poweroff
Forced Recovery
Unlock Bootloader
Lock Bootloader
Factory Data Reset
Please wait.....
```



After putting in all commands and therefore **all the images are stored** on the Shield device we can **lock OEM** again.

If this step FAILS the **Shield logo will appear** and device keeps **rebooting** over and over untill infinity (and beyond)

Repeat the commands above again and check if every rule is [OKAY] in the prompt window, and/or check for errors in previous steps.

OEM Lock

After flashing all images to Shield device, we can lock OEM again.

This will erase all data on your device!

- Select 'Lock bootloader' with keyboard or gamepad

```
Version:32.00.2019.50-t210-69ebfcb
Production mode:Used
Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC con
nection

Continue
Boot recovery kernel
Boot safe mode
Reboot
Poweroff
Forced Recovery
Unlock Bootloader
Lock Bootloader ←
Factory Data Reset
```

- Select 'Confirm' with the keyboard/gamepad

```
!!! READ THE FOLLOWING !!!
If you lock the bootloader, all personal
data from your device will be automatically
deleted (a "factory data reset") to
prevent unauthorized access to your
personal data.

Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC con
nection

Confirm ←
Back to menu
```

Select confirm and a short confirmation will show

Now the Shield device is ready to load 'the old OS' again, next step is [reboot](#).

Reboot

Now that all work is done, it's time to reboot the device back to april 2021 😊

- Choose 'Reboot' in the 'fastboot screen'

```
Version:32.00.2019.50-t210-69ebfcb6
Production mode:fused
Press X/Y to move highlight
Press Button A to select
Connect SHIELD Controller using USB cable. Use USB port near
HDMI port for the controller and USB port away for PC connection

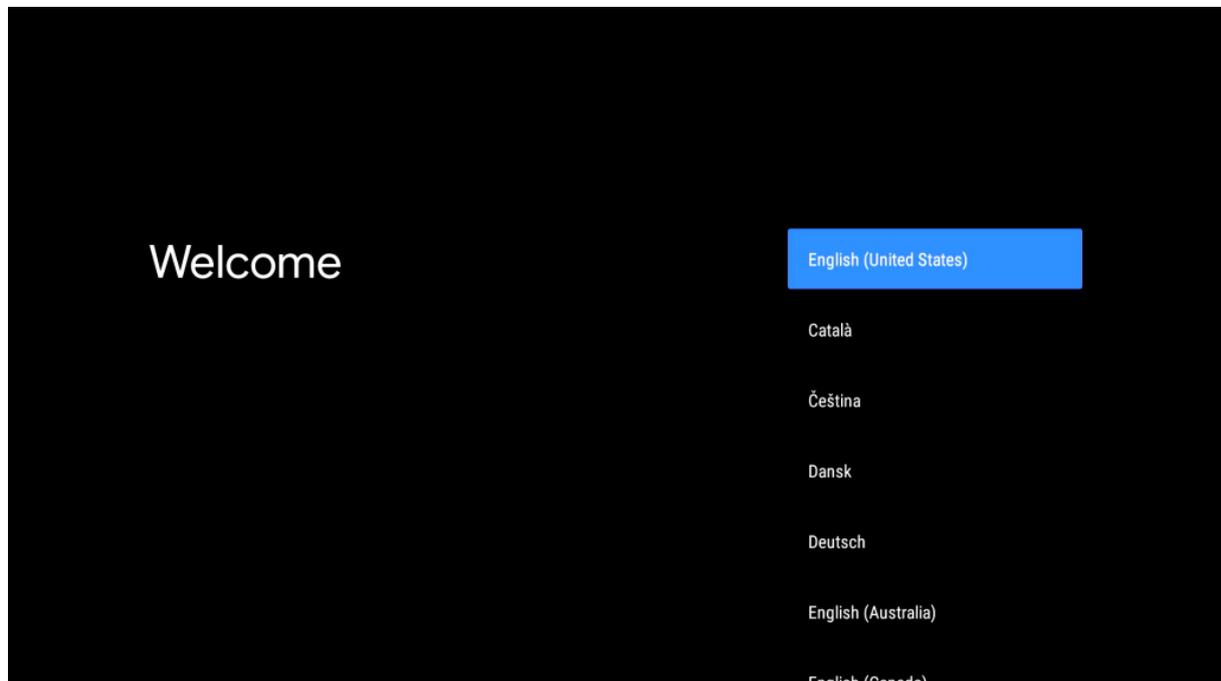
Continue
Boot recovery kernel
Boot safe mode
Reboot
Poweroff
Forced Recovery
Unlock Bootloader
Lock Bootloader
Factory Data Reset
```

The device will now reboot to the desired OS

Be patient, the first time takes longer to boot (for me 2 minutes)

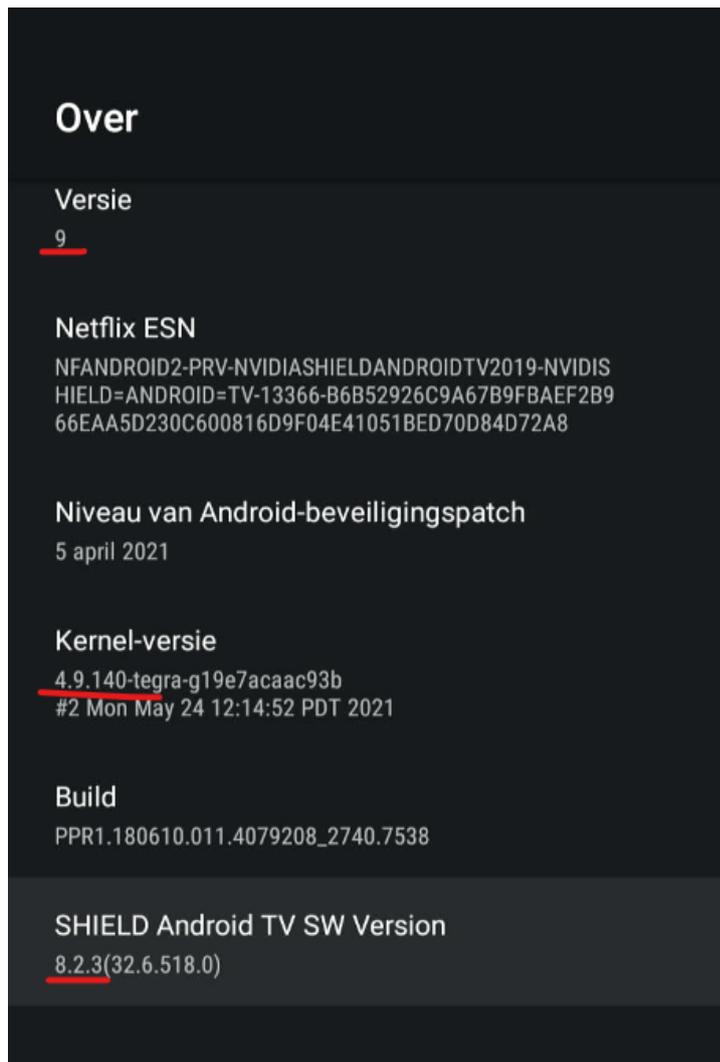
After rebooting, the Shield device will startup the initial setup wizard.

- Complete the initial wizard, like usual.



Initial setup wizard

- You can now check your version in -> Settings -> Device settings -> About

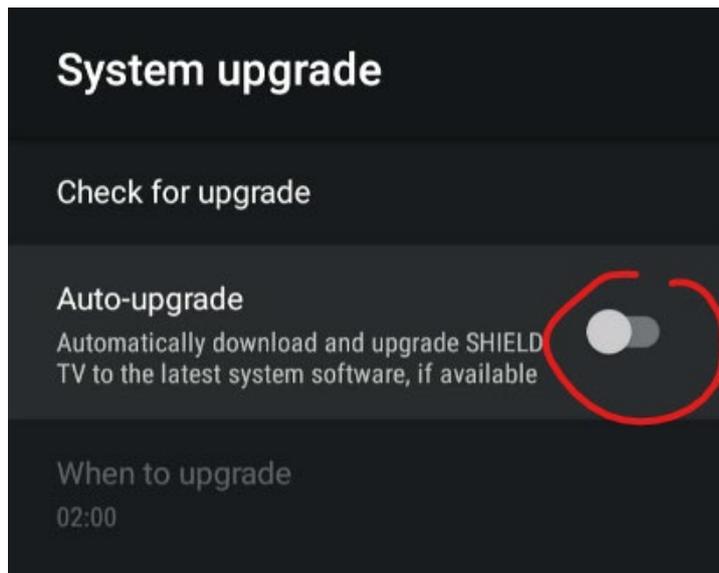


Downgrading is now done, [disable auto-upgrades](#) in the next step

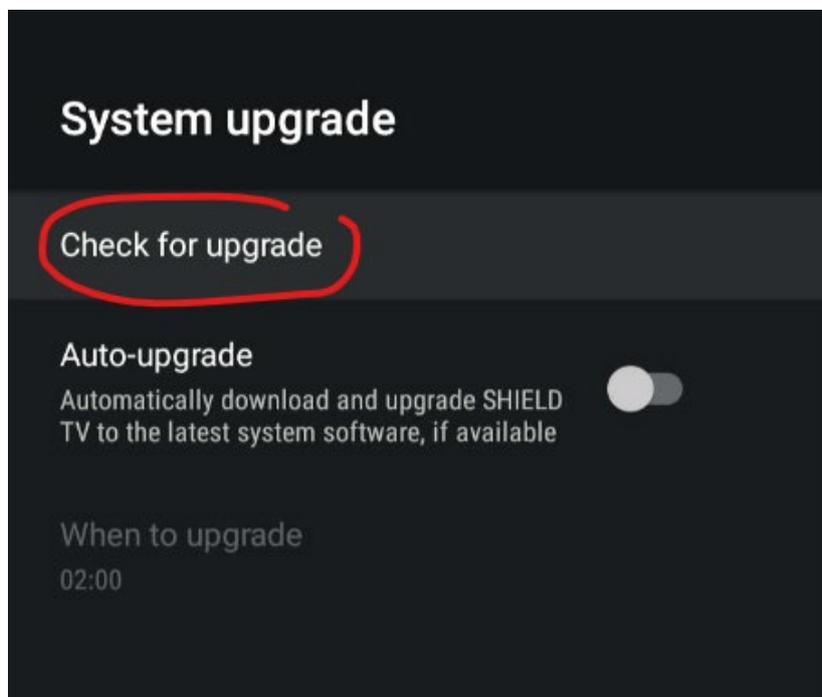
Disable updates

Once the [downgrade](#), [reboot](#) and the initial wizard is complete the device is ready to use, however Android TV OS is by default set to upgrade to the latest OS version, which we try to avoid in this case.

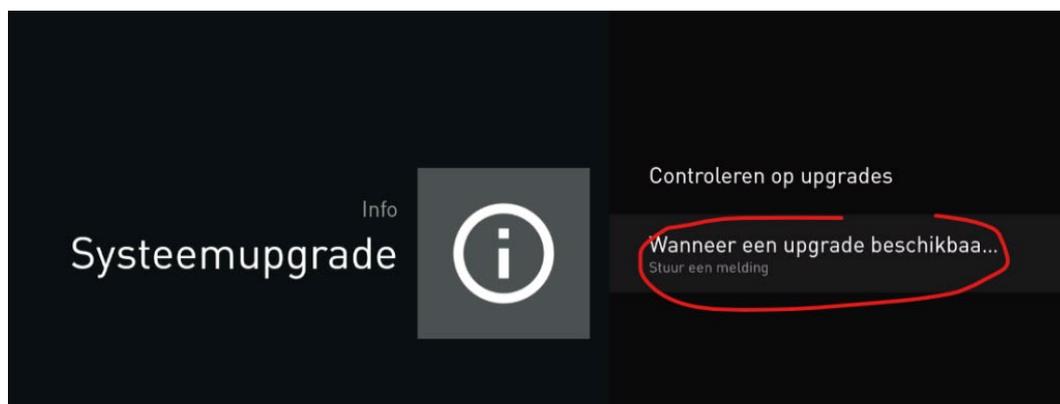
1. Go to -> Settings -> Device Settings -> About -> System upgrade
2. And DISABLE the 'Auto-upgrade' option.



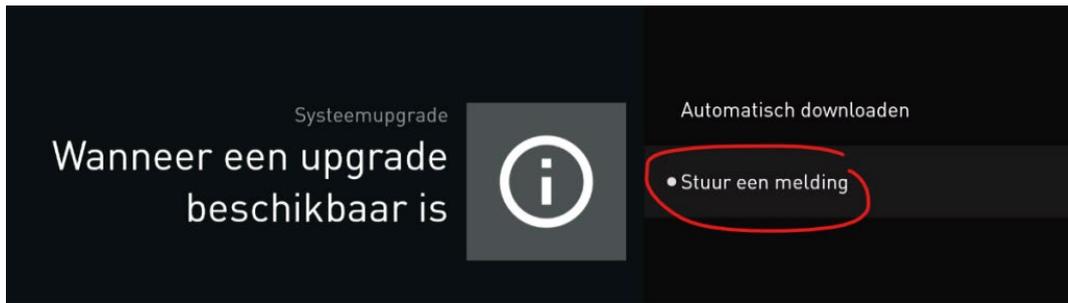
3. Next the 'Check for upgrade' option



4. And choose 'When upgrade is available' option



5. And choose 'Notify me'



This way auto-upgrades are denied en no download takes place in background, wich otherwise would have reduced storage capacity by around 900MB!

ADB USB connection troubleshooting

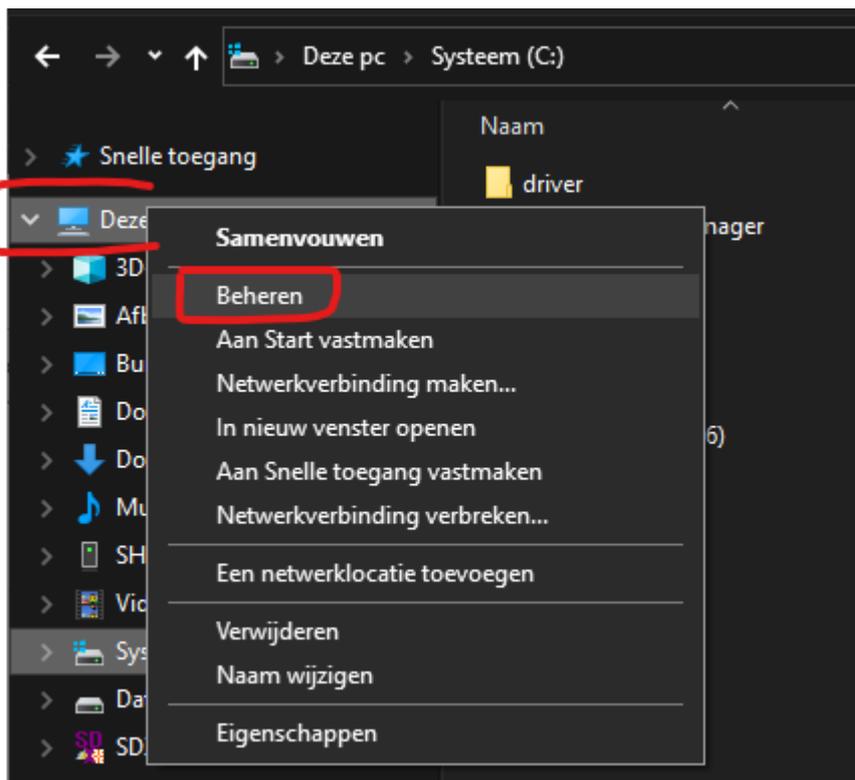
It's important to know that there are two types of connection:

[adb](#) and [fastboot](#)

Install USB Drivers (manually)

If the USB device is not recognized. follow steps below.

- Open Windows explorer and right-click on 'this computer' and choose 'Manage'



This will bring up the 'Manage computer window',

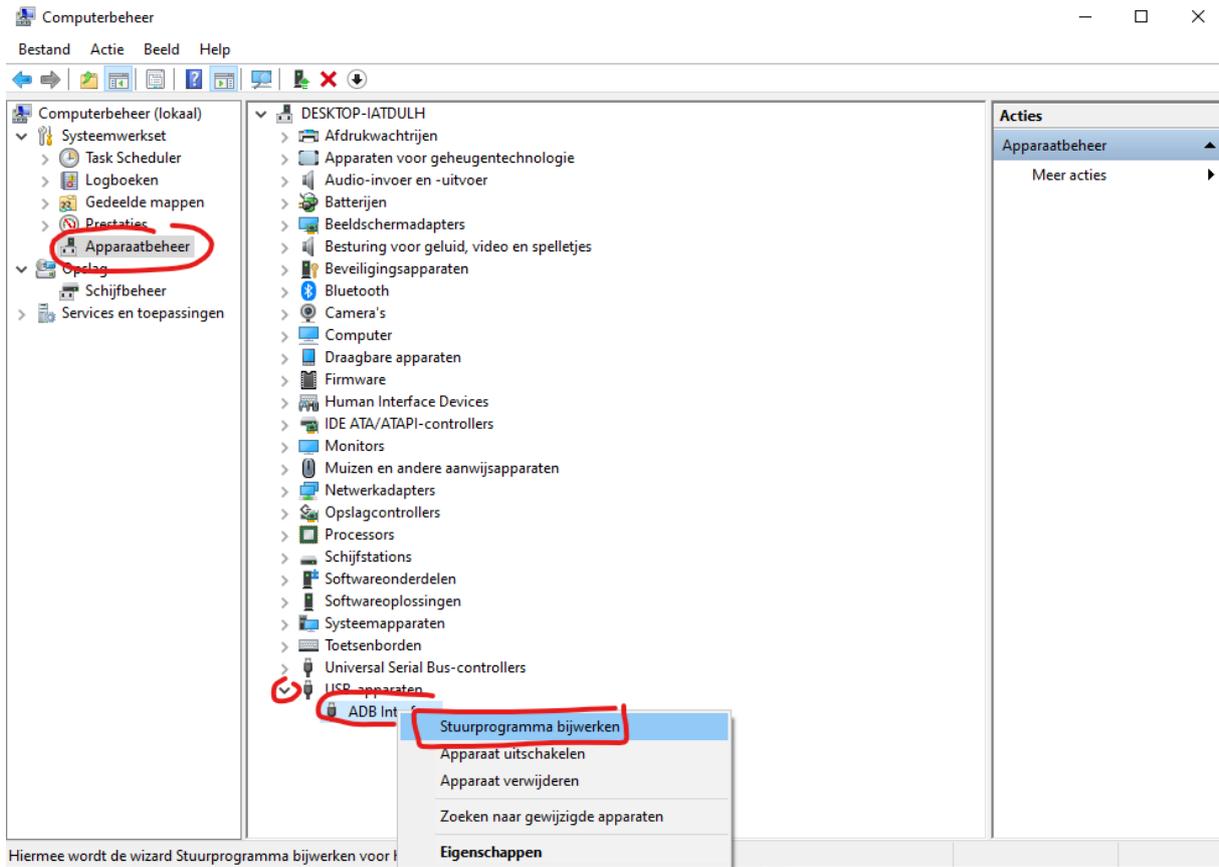
- go to 'Devices' and unfold 'USB devices'.

This should contain '[ADB Interface](#)' or '[Fastboot device](#)' (depending on the mode the Shield is in)

ADB Device driver

If the Shield device is in 'normal mode' and connected to USB, Windows will display the device as 'ADB Interface' and in my case auto-installed the right drivers. If not:

- **Right-click here and choose 'Update drivers'**



ADB USB Window

- **In the next window, choose Search on my computer.**



← Stuurprogramma's bijwerken - ADB Interface

Hoe wilt u naar stuurprogramma's zoeken?

→ Automatisch zoeken naar stuurprogramma's
Windows zoekt op uw computer naar het beste beschikbare stuurprogramma en installeert dit op uw apparaat.

→ Op mijn computer naar stuurprogramma's zoeken
Zoek handmatig naar een stuurprogramma en installeer dit.

Annuleren

- In the next window, choose 'Choose manually'



← Stuurprogramma's bijwerken - ADB Interface

Bladeren naar stuurprogramma's op uw computer

Op deze locatie naar stuurprogramma's zoeken:

C:\platform-tools\Windows Drivers

Bladeren...

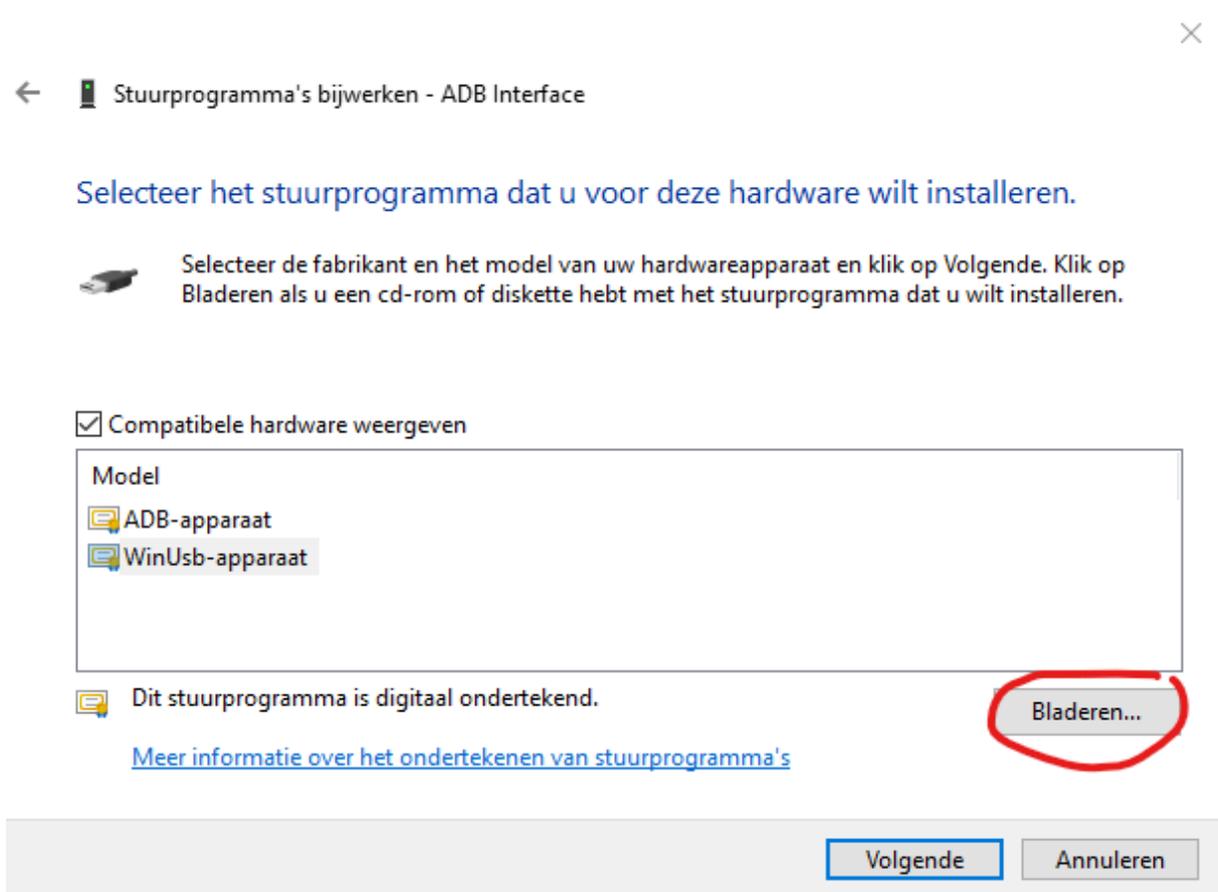
Inclusief onderliggende mappen

→ Ik wil kiezen uit een lijst met stuurprogramma's op mijn computer
In deze lijst worden stuurprogramma's weergegeven die compatibel zijn met het apparaat, en alle stuurprogramma's in dezelfde categorie als het apparaat.

Volgende

Annuleren

- Choose 'Select file'



- Again, choose 'Browse'



- And now select the right file (depending on which driver you want to install)

For 'ADB Device' select file

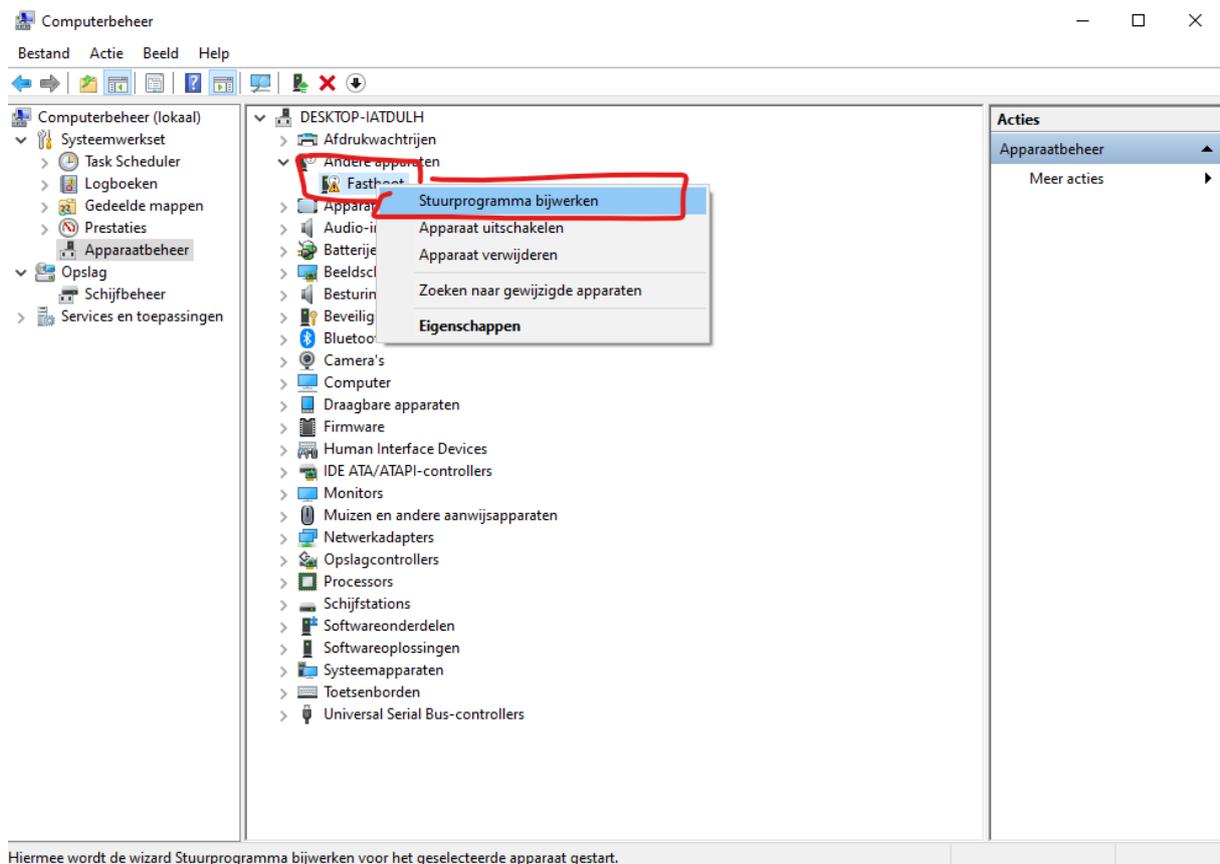
c:\driver\android_winusb.inf

You can now command your Shield to go into ['fastboot mode'](#)

Fastboot device driver

If the Shield device is rebooted in 'fastboot mode' and connected to USB, Windows will display the device as 'Fastboot' in 'Other devices'

- **Right-click here and choose 'Update drivers'**



Fastboot device unrecognized

- **In the next window, choose Search on my computer.**



← Stuurprogramma's bijwerken - ADB Interface

Hoe wilt u naar stuurprogramma's zoeken?

→ Automatisch zoeken naar stuurprogramma's
Windows zoekt op uw computer naar het beste beschikbare stuurprogramma en installeert dit op uw apparaat.

→ Op mijn computer naar stuurprogramma's zoeken
Zoek handmatig naar een stuurprogramma en installeer dit.

Annuleren

- In the next window, choose 'Choose manually'



← Stuurprogramma's bijwerken - ADB Interface

Bladeren naar stuurprogramma's op uw computer

Op deze locatie naar stuurprogramma's zoeken:

C:\platform-tools\Windows Drivers

Bladeren...

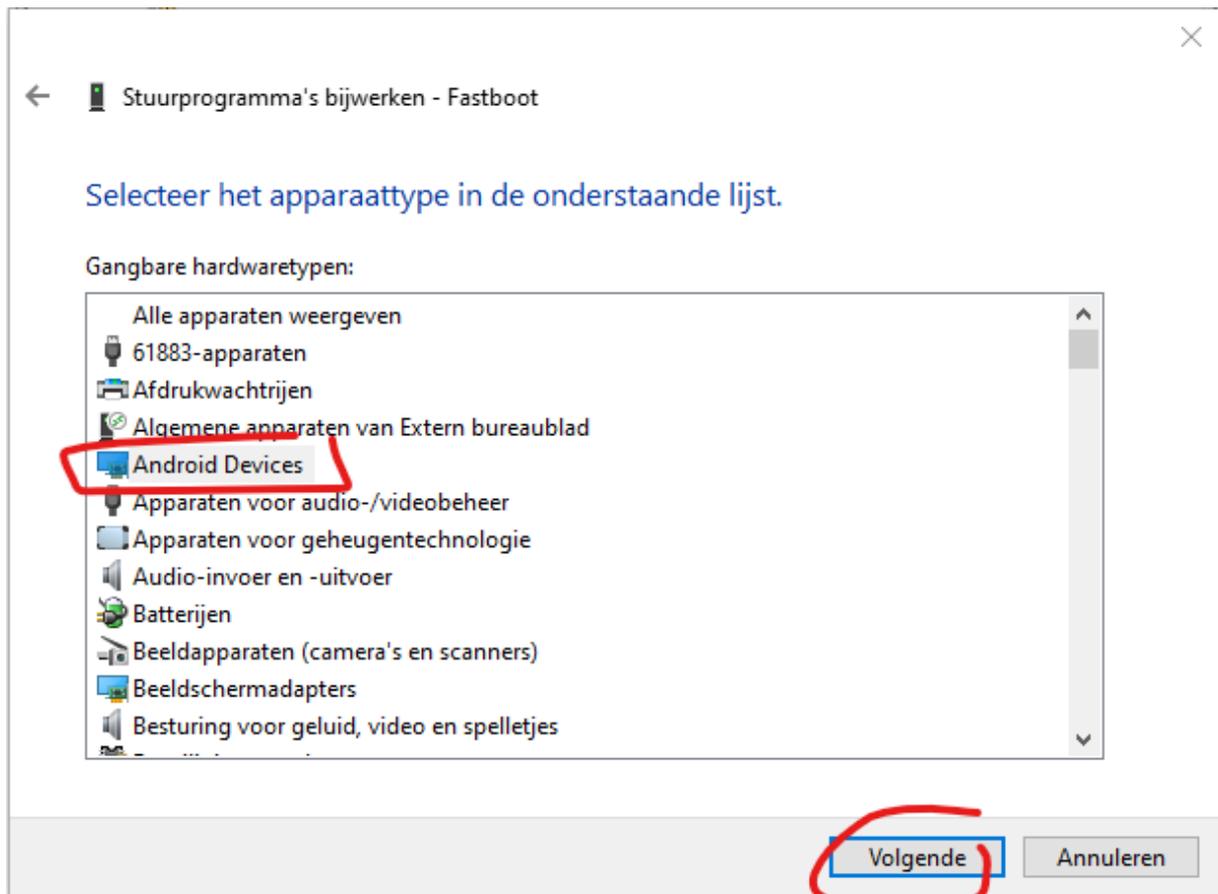
Inclusief onderliggende mappen

→ Ik wil kiezen uit een lijst met stuurprogramma's op mijn computer
In deze lijst worden stuurprogramma's weergegeven die compatibel zijn met het apparaat, en alle stuurprogramma's in dezelfde categorie als het apparaat.

Volgende

Annuleren

- Choose 'Android devices' or 'All devices' and hit next



- Choose 'Browse'

Selecteer het stuurprogramma dat u voor deze hardware wilt installeren.



Selecteer de fabrikant en het model van uw hardwareapparaat en klik op Volgende. Klik op Bladeren als u een cd-rom of diskette hebt met het stuurprogramma dat u wilt installeren.

Fabrikant	Model
ClockworkMod	%GoogleNexusSBootLoaderInterface%
NVIDIA Corp.	Android ADB Interface
Wacom Co., Ltd.	Android Composite ADB Interface
	Asus Eee Pad Slider ADB Interface
	Asus Fastboot Interface

Dit stuurprogramma is ondertekend met behulp van Authenticode(tm). [Meer informatie over het ondertekenen van stuurprogramma's](#)

Bladeren...

Volgende

Annuleren

- Choose 'Browse' again (*sigh*)

Installeren vanaf schijf



Plaats de installatieschijf van de fabrikant in het hieronder geselecteerde station.

OK

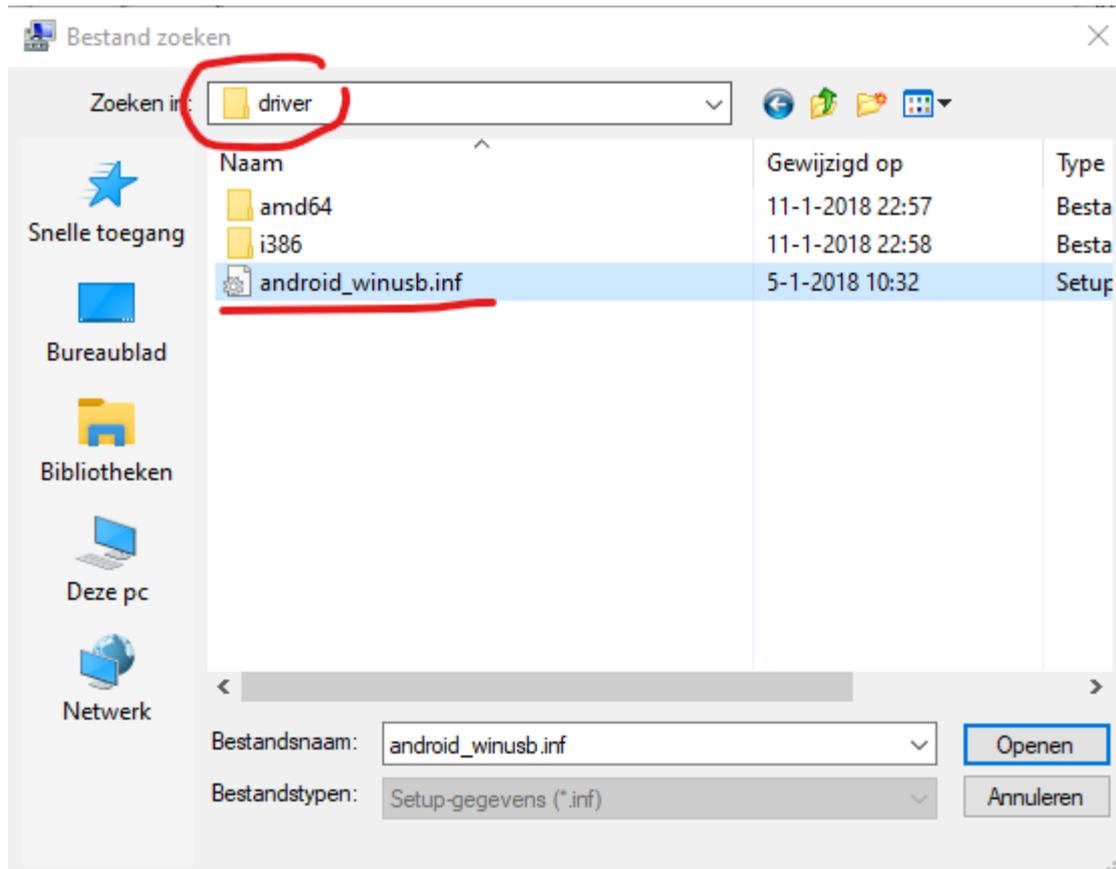
Annuleren

Bestanden van fabrikant kopiëren van:

A:\

Bladeren...

- Navigate to `c:\windows\driver\` and choose file 'android_winusb.inf'



- Hit 'OK'



- Hit 'Next' and 'Yes' to the warning

←  Stuurprogramma's bijwerken - Fastboot

Selecteer het stuurprogramma dat u voor deze hardware wilt installeren.



Selecteer de fabrikant en het model van uw hardwareapparaat en klik op Volgende. Klik op Bladeren als u een cd-rom of diskette hebt met het stuurprogramma dat u wilt installeren.

Model

-  Android ADB Interface
-  Android Bootloader Interface
-  Android Composite ADB Interface

 Dit stuurprogramma is digitaal ondertekend. Bladeren...

[Meer informatie over het ondertekenen van stuurprogramma's](#)

Volgende Annuleren

Windows recognizes driver files...

Waarschuwing over bijgewerkt stuurprogramma

 Installatie van dit apparaatstuurprogramma wordt niet aangeraden omdat Windows niet kan controleren of het stuurprogramma compatibel is met de hardware. Als het stuurprogramma niet compatibel is, zal de hardware niet juist werken en kan uw computer instabiel worden of zelfs geheel niet meer werken. Wilt u doorgaan met de installatie van dit stuurprogramma?

Ja Nee

Confirmation window (oh

dear...are you sure?)

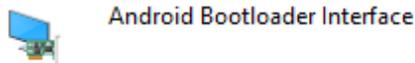
Windows will install drivers now and reports with this window



← Stuurprogramma's bijwerken - Android Bootloader Interface

Alle stuurprogramma's zijn bijgewerkt

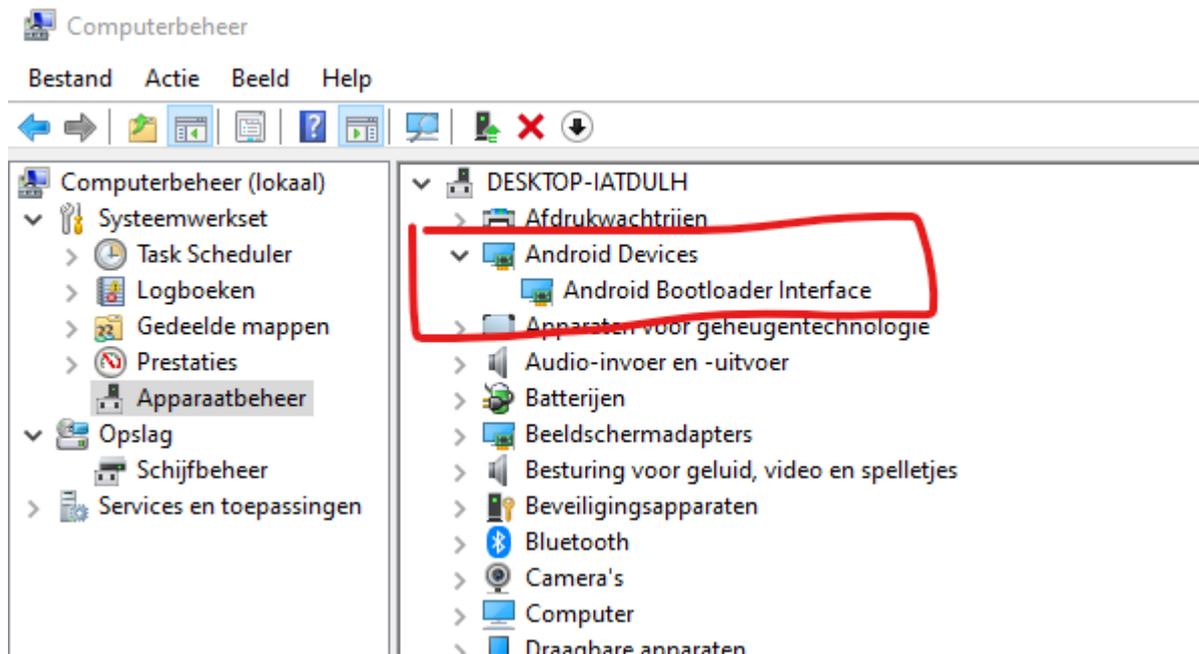
De installatie van de stuurprogramma's voor dit apparaat is voltooid:



Sluiten

- Hit 'Close'

We can now see that Windows recognizes the device with proper drivers for its connection!



Now the 'Android Bootloader Interface' is recognized

- You can now (re-) check ['fastboot mode' here](#).