



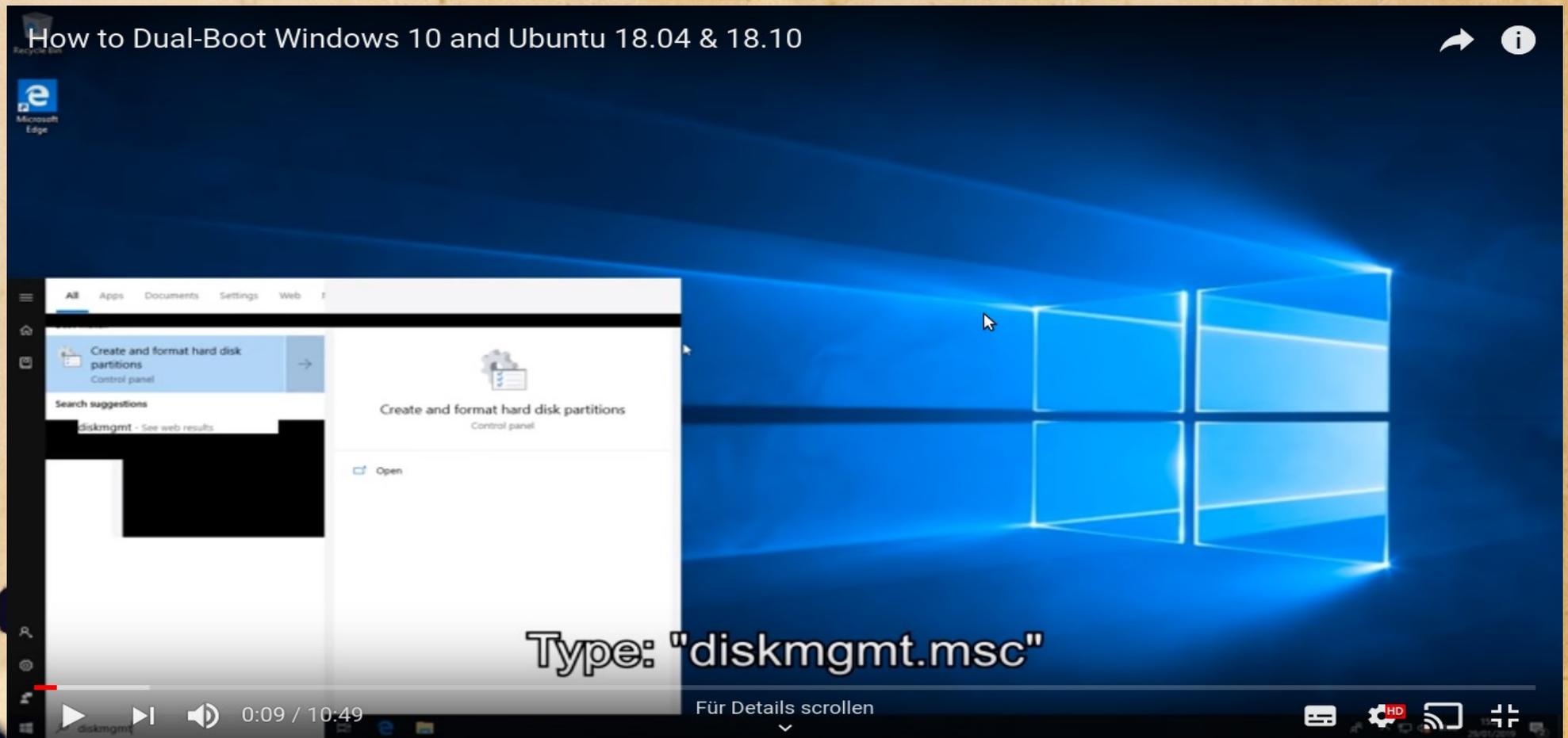
Dualboot Installation

UBUNTU 18.04 LTS / 18.10 neben WINDOWS 10

Überarbeitung durch Josef Wagner

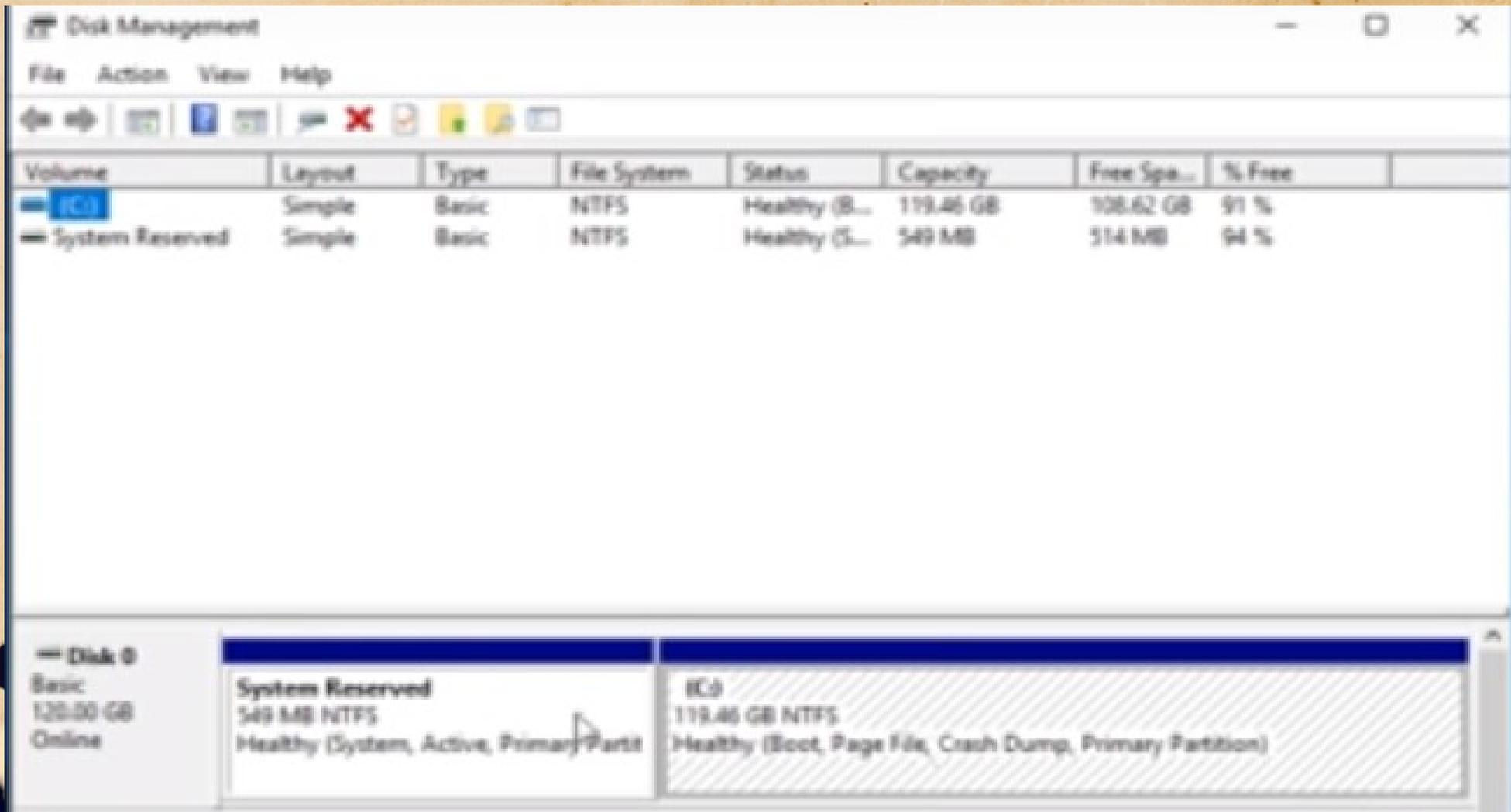
Partitionierung von Windows 10

- Aus der Kommandozeile „diskmgmt.msc“ aufrufen und als Administrator ausführen



Partitionierung von Windows 10

- Eine freie Partition für Ubuntu vorbereiten



The screenshot shows the Windows Disk Management console. The main table lists the following partitions:

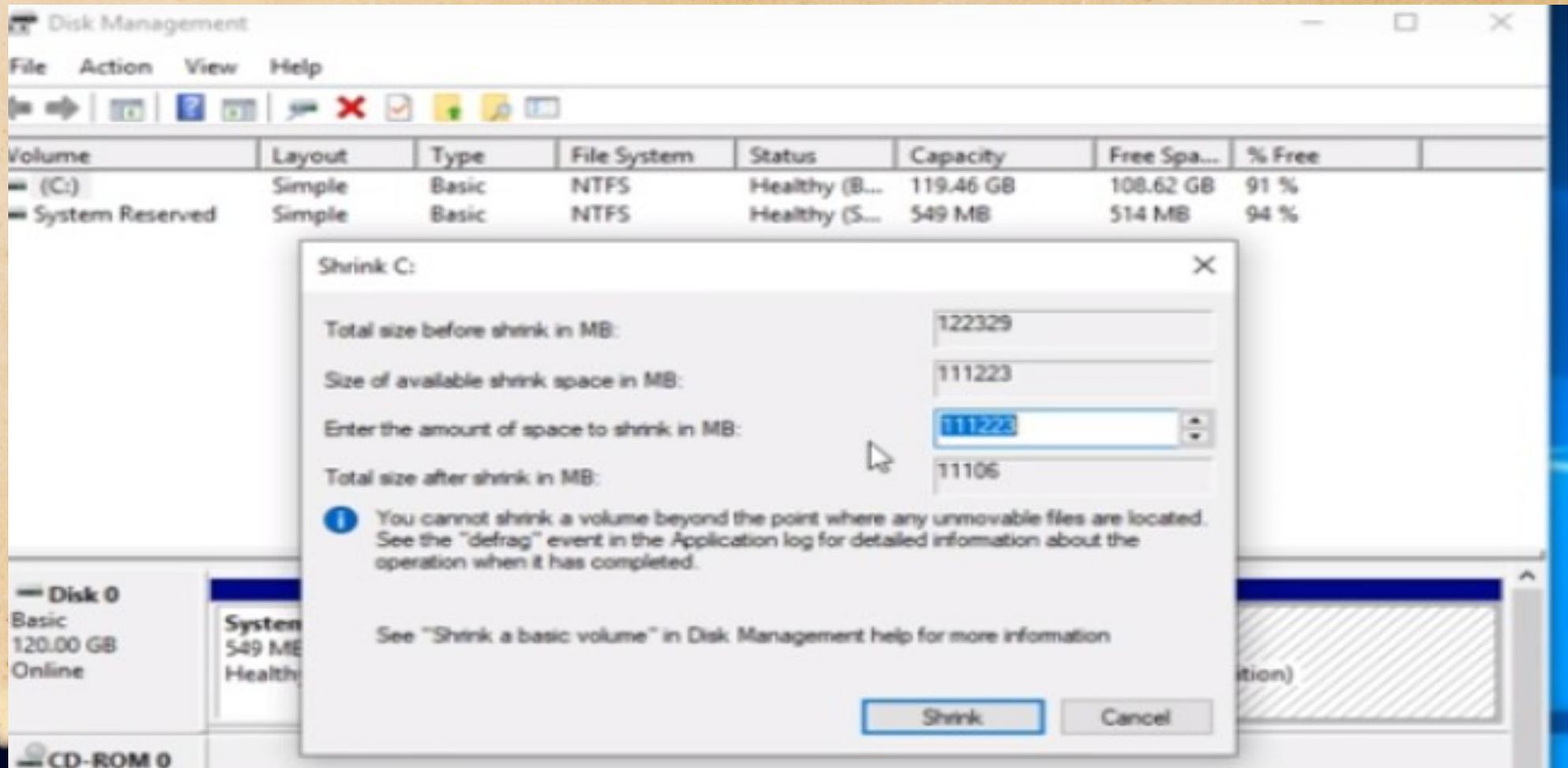
| Volume | Layout | Type | File System | Status | Capacity | Free Spa... | % Free |
|-----------------|--------|-------|-------------|---------------|-----------|-------------|--------|
| (C:) | Simple | Basic | NTFS | Healthy (B... | 119.46 GB | 108.62 GB | 91 % |
| System Reserved | Simple | Basic | NTFS | Healthy (S... | 349 MB | 314 MB | 94 % |

At the bottom, the 'Disk 0' details are shown:

| Volume | Layout | Type | File System | Status | Capacity | Free Spa... | % Free |
|-----------------|--------|-------|-------------|--|-----------|-------------|--------|
| System Reserved | Simple | Basic | NTFS | Healthy (System, Active, Primary Partit | 349 MB | 314 MB | 94 % |
| (C:) | Simple | Basic | NTFS | Healthy (Boot, Page File, Crash Dump, Primary Partition) | 119.46 GB | 108.62 GB | 91 % |

Partitionierung von Windows 10

- Die Windows-Partition wird nun auf ca. 50% verkleinern



Partitionierung von Windows 10

- Ein freier Bereich ist nun für Linux Installation verfügbar

The screenshot shows the Windows Disk Management console. The top pane displays a table of volumes. The bottom pane shows the disk layout for Disk 0, which is a 120.00 GB Basic disk. It contains three partitions: a 549 MB System Reserved partition, an 80.40 GB (C:) partition, and a 39.06 GB unallocated space. A mouse cursor is hovering over the unallocated space.

| Volume | Layout | Type | File System | Status | Capacity | Free Spa... | % Free |
|-----------------|--------|-------|-------------|---------------|----------|-------------|--------|
| (C:) | Simple | Basic | NTFS | Healthy (B... | 80.40 GB | 69.56 GB | 87 % |
| System Reserved | Simple | Basic | NTFS | Healthy (S... | 549 MB | 514 MB | 94 % |

| Disk | Partition | Capacity | File System | Status |
|--|-----------------|----------|-------------|--|
| Disk 0 Basic 120.00 GB Online | System Reserved | 549 MB | NTFS | Healthy (System, Active) |
| | (C:) | 80.40 GB | NTFS | Healthy (Boot, Page File, Crash Dump, Prima... |
| | Unallocated | 39.06 GB | | |

Ausschalten von „Fast Boot“

- Mit „Fastboot“ startet Windows sehr schnell
- Es kann damit kein USB-Stick erkannt werden
- Deshalb muss Fastboot abgeschaltet werden
- Herunterladen der Batch-Datei unter:
- <https://www.tenforums.com/tutorials/4189-turn-off-fast-startup-windows-10-a.html>

Batch-Datei herunterladen

- Herunterladen der Batch-Datei „Turn_Off_Fast_Startup.bat“:

3. To Turn Off Fast Startup

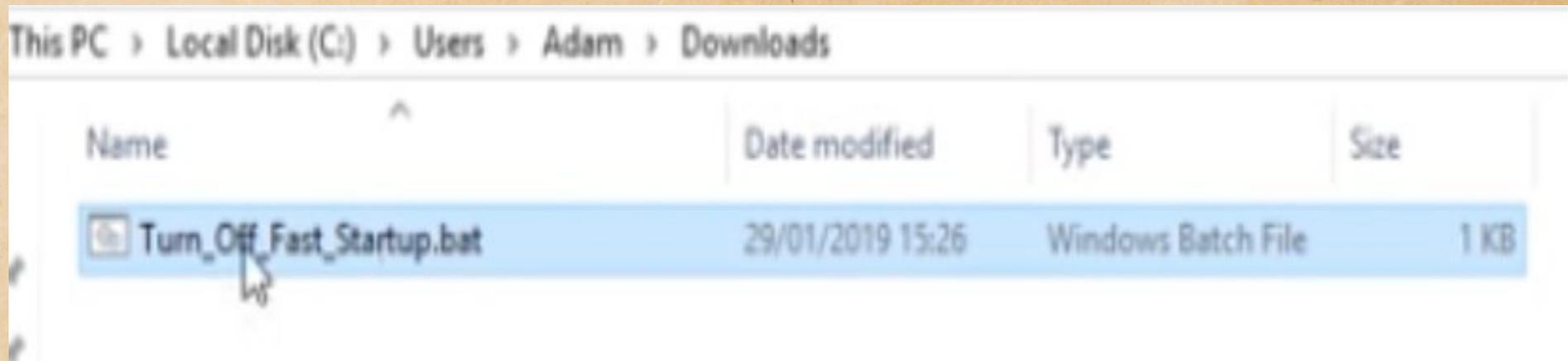
A) Click/tap on the Download button below to download the BAT file below, and go to **step 4** below.



4. Save the .bat file to your desktop.
5. Right click or press and hold on the downloaded .bat file, and click/tap on **Run as administrator**.
6. When prompted, click/tap on **Run** and **Yes (UAC)**.

Batch-Datei ausführen

- Batch-Datei mit Rechtsklick als Administrator starten
- Danach ist FASTBOOT abgeschaltet!



Herunterladen von Ubuntu 18.04 LTS

- Herunterladen von **Ubuntu 18.04 LTS**
- LTS = Long Term Support / Updates bis 2023

Download Ubuntu Desktop

Ubuntu 18.04.1 LTS

Download the latest LTS version of Ubuntu, for desktop PCs and laptops. LTS stands for long-term support — which means five years, until April 2023, of free security and maintenance updates, guaranteed.

[Ubuntu 18.04 LTS release notes](#)

Recommended system requirements:

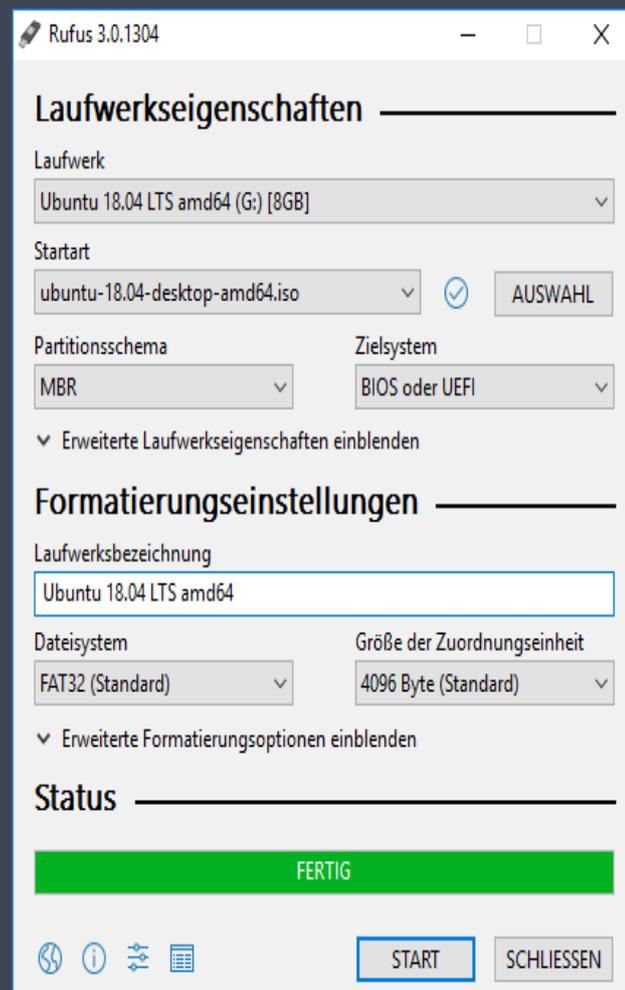
- 2 GHz dual core processor or better
- 2 GB system memory
- 25 GB of free hard drive space
- Either a DVD drive or a USB port for the installer media
- Internet access is helpful

Download

For other versions of Ubuntu Desktop including torrents, the network installer, a list of local mirrors, and past releases see our [alternative downloads](#).

Bootbaren USB-Stick erstellen

Erstellen Sie bootfähige USB-Laufwerke auf einfache Art und Weise

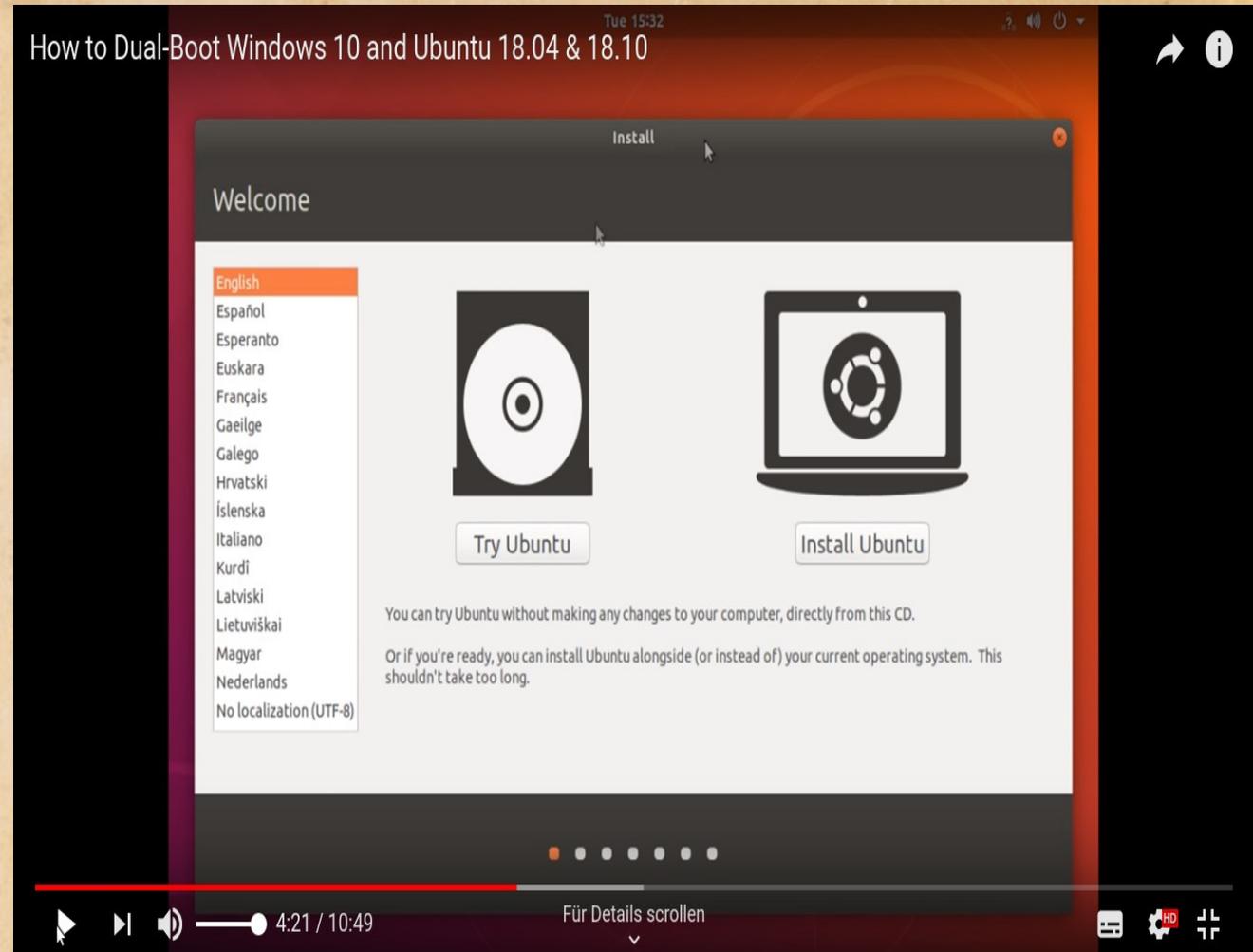


The screenshot shows the Rufus 3.0.1304 application window. The title bar reads 'Rufus 3.0.1304'. The interface is divided into three main sections: 'Laufwerkseigenschaften', 'Formatierungseinstellungen', and 'Status'.
In the 'Laufwerkseigenschaften' section, the 'Laufwerk' dropdown is set to 'Ubuntu 18.04 LTS amd64 (G:) [8GB]'. The 'Startart' dropdown is set to 'ubuntu-18.04-desktop-amd64.iso', with a checkmark icon and an 'AUSWAHL' button next to it. The 'Partitionsschema' is set to 'MBR' and the 'Zielsystem' is set to 'BIOS oder UEFI'. There is a checkbox for 'Erweiterte Laufwerkseigenschaften einblenden' which is currently unchecked.
In the 'Formatierungseinstellungen' section, the 'Laufwerksbezeichnung' text box contains 'Ubuntu 18.04 LTS amd64'. The 'Dateisystem' dropdown is set to 'FAT32 (Standard)' and the 'Größe der Zuordnungseinheit' dropdown is set to '4096 Byte (Standard)'. There is a checkbox for 'Erweiterte Formatierungsoptionen einblenden' which is currently unchecked.
The 'Status' section at the bottom features a large green progress bar with the word 'FERTIG' in white text. Below the progress bar are several icons (a globe, an information icon, a USB icon, and a list icon) and two buttons: 'START' and 'SCHLIESSEN'.

- **RUFUS** herunterladen und starten
- Keine Installation!
- <https://rufus.ie/>
- **Ubuntu Iso-Datei**,
- **UEFI** auswählen,
- „Start“ anklicken

Starten mit dem USB-Stick

- USB-Stick in den Rechner einstecken
- Rechner neu starten
- Sollte nun vom USB-Stick booten
- Oder ggf. im Menü auswählen
- UBUNTU 18.04 LTS startet vom USB-Stick
- „Install Ubuntu“ dh. Installieren auswählen



Deutsches Tastaturlayout auswählen

- Tastaturlayout „German“ und „German (DE) mit QWERTZ-Tastatur“ auswählen

Keyboard layout

Choose your keyboard layout:

English (Cameroon)

English (Ghana)

English (Nigeria)

English (South Africa)

English (UK)

English (US)

Esperanto

Estonian

Faroese

English (UK)

English (UK) - English (UK, Colemak)

English (UK) - English (UK, Dvorak)

English (UK) - English (UK, Dvorak, with UK punctuation)

English (UK) - English (UK, Macintosh)

English (UK) - English (UK, extended, with Win keys)

English (UK) - English (UK, intl., Macintosh)

English (UK) - English (UK, intl., with dead keys)

Type here to test your keyboard

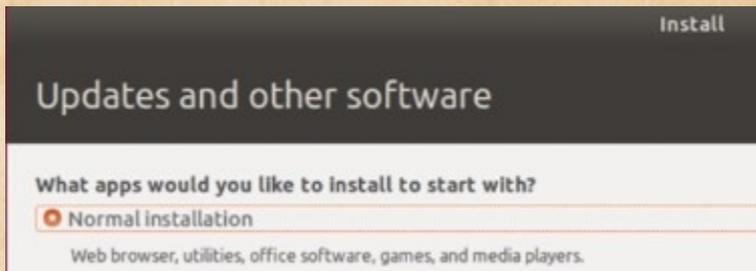
Detect Keyboard Layout

Quit

Back

Continue

Installationsart auswählen: „minimal“ **und** „install third party software“



Minimal installation

Web browser and basic utilities.

Install third-party software for graphics and Wi-Fi hardware and additional media formats

This software is subject to license terms included with its documentation. Some is proprietary.

Quit

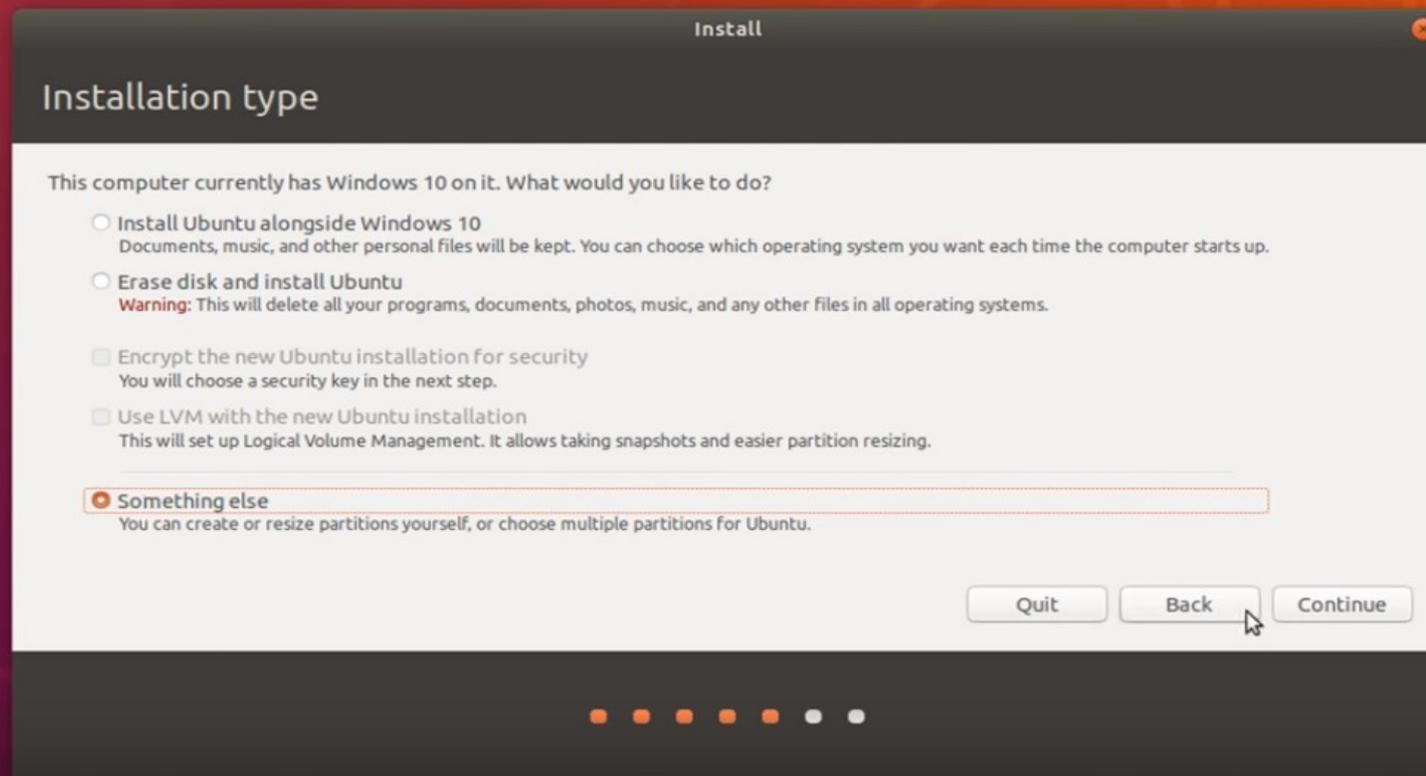
Back

Continue

Partitionierung für Ubuntu

- „Something else“ anklicken

How to Dual-Boot Windows 10 and Ubuntu 18.04 & 18.10



UBUNTU installieren

- UBUNTU in den freien Bereich installieren
- 90% des freien Bereichs verwenden
- Nächste Folie!

Installation type

sda1 (ntfs) sda2 (ntfs) free space
575.7 MB 86.3 GB 41.9 GB

| Device | Type | Mount point | Format? | Size | Used | System |
|------------|------|-------------|--------------------------|----------|----------|------------|
| /dev/sda | | | | | | |
| /dev/sda1 | ntfs | | <input type="checkbox"/> | 575 MB | 32 MB | Windows 10 |
| /dev/sda2 | ntfs | | <input type="checkbox"/> | 86328 MB | 13666 MB | |
| free space | | | <input type="checkbox"/> | 41944 MB | | |

UBUNTU installieren

1. Schritt SWAP

- 2,9 GB für SWAP,
- „swap“ auswählen
- Keinen „Mount point“ auswählen
- OK anklicken

Installation type

| Device | Type | Mount point | Format? | Size | Used | System |
|-----------------|------|-------------|-------------------------------------|----------|----------|------------|
| /dev/sda | | | | | | |
| /dev/sda1 | ntfs | | <input type="checkbox"/> | 575 MB | 32 MB | Windows 10 |
| /dev/sda2 | ntfs | | <input type="checkbox"/> | 86328 MB | 13666 MB | |
| /dev/sda5 | swap | | <input checked="" type="checkbox"/> | 2998 MB | unknown | |
| /dev/sda6 | ext4 | / | <input checked="" type="checkbox"/> | 38942 MB | unknown | |

+ - Change... New Partition Table... Revert

Device for boot loader installation:
/dev/sda ATA VBOX HARDDISK (128.8 GB)

Quit Back Install Now

SWAP einrichten

How to Dual-Boot Windows 10 and Ubuntu 18.04 & 18.10

The screenshot shows the Ubuntu installer's 'Installation type' window. A 'Create partition' dialog box is open, allowing the user to create a new partition. The dialog box has the following settings:

- Size: 3000 MB
- Type for the new partition: Logical
- Location for the new partition: Beginning of this space
- Use as: swap area

The background window shows the disk layout with sda1 (ntfs) at 575.7 MB and sda2 (ntfs) at 86.3 GB. A 'free space' area is also visible. The 'Device for boot loader installation' is set to /dev/sda ATA VBOX HARDDISK (128.8 GB). Buttons for 'Cancel', 'OK', 'New Partition Table...', 'Revert', 'Quit', 'Back', and 'Install Now' are present.

6:15 / 10:49

Für Details scrollen

UBUNTU installieren

2.Schritt

- Im Beispiel sind 41,9 GB Speicher verfügbar
- 38,9 GB
- Logisch
- Beginn des Sektors
- EXT4 Filesystem
- „Mount point“ mit „/“ auswählen
- OK anklicken

Create partition

Size: - + MB

Type for the new partition: Primary
 Logical

Location for the new partition: Beginning of this space
 End of this space

Use as:

Mount point:

Cancel OK

Create partition

Size: - + MB

Type for the new partition: Primary
 Logical

Location for the new partition: Beginning of this space
 End of this space

Use as:

Mount point:

Cancel OK

UBUNTU installieren

How to Dual-Boot Windows 10 and Ubuntu 18.04 & 18.10

Tue 15:36

Zum Beenden des Vollbildmodus **Esc** drücken

Install

Installation type

| Device | Type | Mount point |
|------------|------|-------------|
| /dev/sda | | |
| /dev/sda1 | ntfs | |
| /dev/sda2 | ntfs | |
| /dev/sda5 | swap | |
| free space | | |

+ - Change...

Device for boot loader installation

/dev/sda ATA VBOX HARDDISK (128.8 GB)

Create partition

Size: 38944 MB

Type for the new partition:

- Primary
- Logical

Location for the new partition:

- Beginning of this space
- End of this space

Use as: Ext4 journaling file system

Mount point: /

Cancel OK

New Partition Table... Revert

Quit Back Install Now



6:30 / 10:49

Für Details scrollen



UBUNTU installieren

- „Install Now“ anklicken
- Installation wird durchgeführt

Installation type

| Device | Type | Mount point | Format? | Size | Used | System |
|-----------------|------|-------------|-------------------------------------|----------|----------|------------|
| /dev/sda | | | | | | |
| /dev/sda1 | ntfs | | <input type="checkbox"/> | 575 MB | 32 MB | Windows 10 |
| /dev/sda2 | ntfs | | <input type="checkbox"/> | 86328 MB | 13666 MB | |
| /dev/sda5 | swap | | <input type="checkbox"/> | 2998 MB | unknown | |
| /dev/sda6 | ext4 | / | <input checked="" type="checkbox"/> | 38942 MB | unknown | |

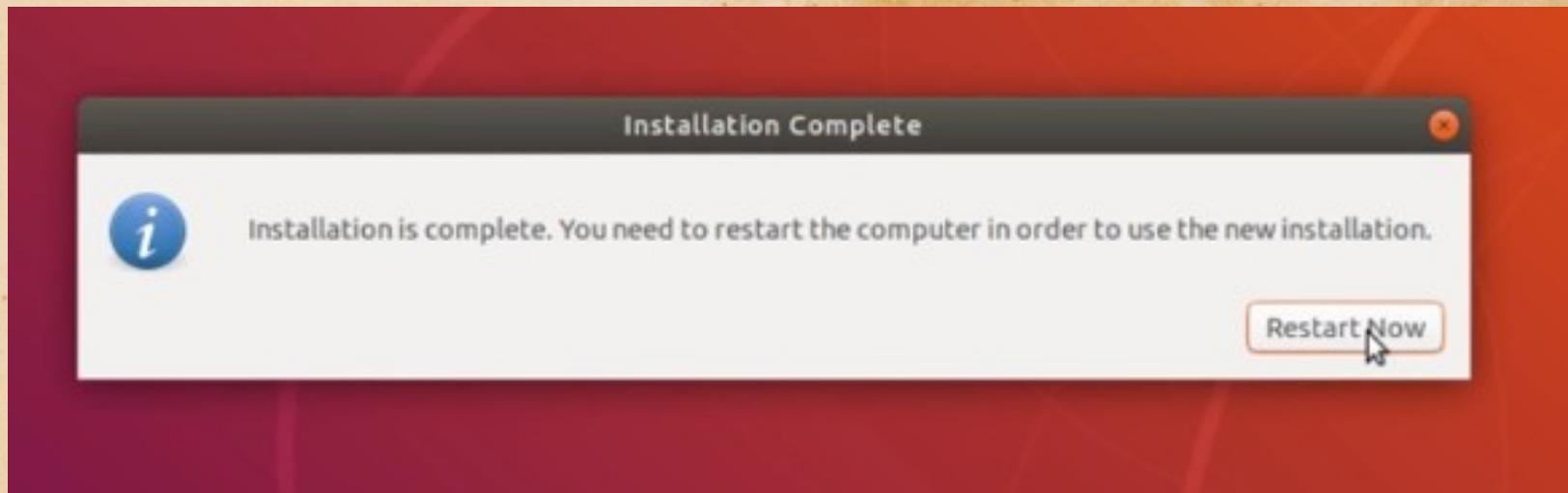
+ - Change... New Partition Table... Revert

Device for boot loader installation:
/dev/sda ATA VBOX HARDDISK (128.8 GB)

Quit Back Install Now

UBUNTU fertig installiert!

- Installation ist fertig!
- Jetzt neu starten!



Neustart

- UBUNTU auswählen
- UBUNTU startet

```
*Ubuntu
```

```
Advanced options for Ubuntu
```

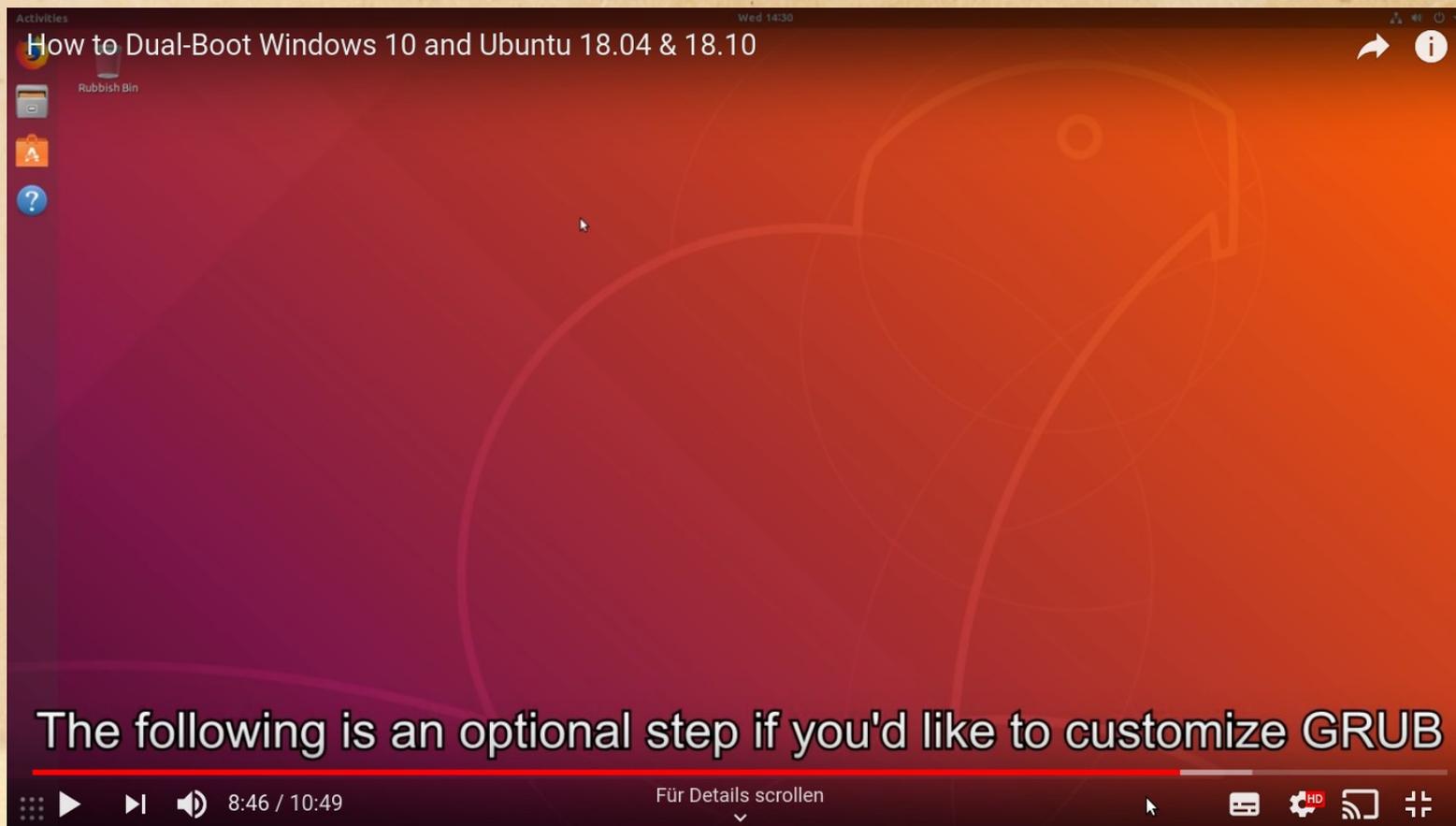
```
Memory test (memtest86+)
```

```
Memory test (memtest86+, serial console 115200)
```

```
Windows 10 (on /dev/sda1)
```

UBUNTU ist fertig installiert

- Fertig!



Video Youtube.com

- Original-Quelle und Screenshots aus:
https://www.youtube.com/watch?v=MSVV_EoApdo
- **Video ist nur in Englisch verfügbar!**
- **Die Übersetzung wurde erstellt von:**
- **Josef Wagner**
- wagner.josef@gmx.de