



The
Hitchhiker's
Guide To CS

Intro

Ubuntu
Terminal

Virtual
Machine

Dual Boot

Planning

The Hitchhiker's Guide To Computer Science

Sessie 2

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WINAK

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Inhoudstafel

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Intro

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Intro

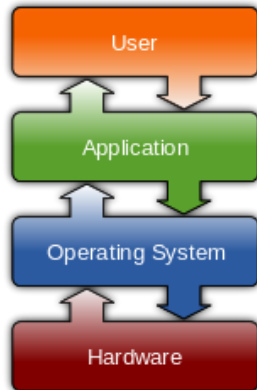
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Planning

- ▶ Operating Systems:
 - ▶ Windows
 - ▶ macOS
 - ▶ Linux
- ▶ Computer Science UA: Linux
- ▶ Use Linux:
 - ▶ Virtual Machine
 - ▶ Boot
 - ▶ Dual Boot
 - ▶ Ubuntu Terminal on Windows





Linux Distributions - Distros

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- ▶ Linux = Free Open Source OS
- ▶ A lot of Forks → Linux Distribution

Ubuntu 20.04 LTS



Ubuntu Terminal on Windows

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► Windows subsystem for Linux

Pros and Cons

- | | |
|-------------------|---------------------------|
| + Easy to install | — Not the full experience |
| | — Limited features |
| | — Not reference platform |

Tutorial 

Download 



Virtual Machine

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Planning

- ▶ Software to emulate a real machine
- ▶ Run OS within guest OS.

Pros and Cons

- | | |
|----------------------|----------------|
| + Easy to install | — Slow |
| + Good to try out OS | — Not reliable |

[Tutorial](#) 

[Virtual Box](#) 



Dual Boot

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- ▶ Install OS alongside original OS.

Pros and Cons

- | | |
|------------|-------------------------|
| + Fast | — Hard to set up |
| + Stable | — Can cause problems |
| + Reliable | — Need reboot to switch |

[Tutorial](#) 

Disclaimer: We are not responsible for loss of data, broken laptops or hurt feelings. Dual boot is a dangerous activity, take precautions.



Dual Boot Warnings

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Planning

- ▶ Do not dual boot macOS
- ▶ Backup all your data before starting
- ▶ Make sure your drive has enough space
- ▶ Be careful with hybrid drives (HDD & SSD)



Dual Boot - Step 1

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Find distro:

▶ [Ubuntu](#) 

▶ [Ubuntu Flavours](#) 



Dual Boot - Step 2

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Make bootable USB with ISO

▶ [Tutorial](#) 



Dual Boot - Step 3

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Restart PC with USB plugged in.
You might need to press F2/F12/DEL to change some BIOS options (If anything goes wrong):

- ▶ Change boot order
- ▶ Disable secure boot
- ▶ Legacy boot?



Dual Boot - Step 4

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Follow installation instructions



Dual Boot - Step 5

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If anything goes wrong, Google it or ask us.



Dual Boot - Step 6

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Check if GRUB works by rebooting. If not, use boot-repair

▶ [Boot-Repair](#) 



Dual Boot - Tutorial

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Planning

1. Burn the image on your USB stick.
2. Follow this tutorial:
 - ▶ <https://tutorials.ubuntu.com/tutorial/tutorial-install-ubuntu-desktop>



Planning

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24 Sep WINAK - Cursusdienst - Lessenrooster - Email

25 Sep Dual Boot - Virtual Box (practicum)

Tba Git for beginners

Tba Dot

Tba Git advanced