



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

1/16

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# Inhoudstafel

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# Intro

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Intro

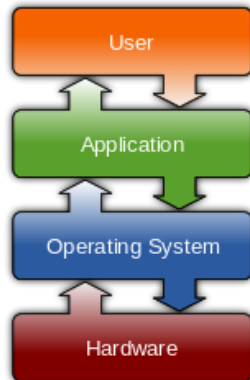
Ubuntu  
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Planning

- ▶ 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 18.04 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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- ▶ 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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Planning

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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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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25 Sep      WINAK - Cursusdienst - Lessenrooster - Email

02 Okt      Dual Boot - Virtual Box (practicum)

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16 Okt      Dot

25 Okt      Verbroederingsmoment

Proj. GAS    Git