

Informatics for Astronomers - WS2019

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Exercise sheet 1 - Basics

Your preparation of exercises should include two aspects:

(1) Try to present exercises in a way that everyone can follow (even if that person didn't do the exercise at all), so please explain all the (vital) parts of your solution in a slow and comprehensive way.

(2) Try to also include some background information where applicable, and/or explain the possible context/motivation for the given exercise.

Please strive for that in all exercises to come. From now on this will also be part of the assessment.

1. Describe a few of the University's services like u:cloud, u:access, u:space, etc. What are they useful for?
2. In this lecture we will make heavy use of Linux (or Unix-like systems). Please explain some key differences in the Linux's philosophy and its development with respect to MS Windows.
3. Did you install Linux in your computer? Which method did you try? Please explain the steps and describe the problems you encountered.
 - Please install a program in Linux
 - If you are using a Mac, look up the Homebrew package manager and try to install it (you will need it in the Anfängerpraktikum)
4. What exactly is the Internet (physically and logically)? What do I actually mean with *physical* and *logical* in this context? What is the World Wide Web?
5. Find out your/some computer's IP address. What is the difference between IPv4 and IPv6 addresses?
6. Start a (Linux) terminal/shell.
 - Practice navigation in the directory structure: Opening of directories, listing of directory content, going one level up again.
 - Create a directory and create a new file within it. Use an editor to write some content in that file, rename the file and copy it to another location.