

# TIL

## *Today I Learned*

- Why mastering GNU/Linux is fundamental skill for a physicist
- The philosophy of GNU/Linux
- How to develop a program in C that interacts with the command line
- How to redirect output and how to use the pipe
- How to search in a file (grep)
- How to deal with a table (awk)
- How to interact with a remote server (ssh)
- How to use bash variables

## Homework

- Install a GNU /Linux distribution (Ubuntu, ElementaryOS, Fedora, ...)
- Install, if not already present, a C compiler, as `gcc`
- Write a C program that takes in input an integer number `N` and print the sum from 0 to `N`
- Test it saving the output in text files
- Expand `random.c` to check that the minimum is small than the maximum

## References

- Google
- Linux Journey (1,2,3)
- Intro to awk
- Slides, source codes, ...:  
<https://www.github.com/Sbozzolo/Open-Source-Tools-for-Physics> (Clone or download  $\Rightarrow$  Download ZIP)  
Or  
[http://www.astro.auth.gr/n/?p=computational\\_tools\\_for\\_physicists](http://www.astro.auth.gr/n/?p=computational_tools_for_physicists)  
Or  
[astro.auth.gr](http://www.astro.auth.gr)  $\Rightarrow$  Seminars  $\Rightarrow$  Special Lectures

## Pic of the day

There's no place like  
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