

Welcome to the *GNU Hackers' Meeting 2022*

Luca Saiu
Egeyar Saiu

GNU Project
<https://www.gnu.org>

GNU Hackers' Meeting 2022
İzmir, Turkey
October 1st 2022

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Updated version, last changed on 2022-10-06. The master copy is at <https://ageinghacker.net/talks/>



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GNU Hackers Meeting 2022
01-02 October -- İzmir, Türkiye
<https://www.gnu.org/ghm/2022>



- Please take the [badge](#) with your name on the table (or write your name or nickname on a blank badge)
- If you have any request, ask [Ege](#) or [Luca](#). Ege speaks Turkish.
- For last-minute updates look at the event web page <https://gnu.org/ghm/2022> (just type “[gnu.org](#)” and click on the event banner [During the conference the main page of the GNU web site was displaying the banner above, linking to the event page]) and at the [ghm-discuss](#) mailing list referred from the event web page.

ESSID: [ParkInn_CONFERENCE](#)

Password: [GNU](#)

- Enjoy!



Here we are

We are Luca and Ege Saiu

- We come from Switzerland;
- we care about software and Computer Science (among the rest);
 - we like the GNU/Linux system
 - long-time users and developers



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Nice to meet you: about this audience

We would like to know about you.

Please raise your hand if you...

- ... know what "source code" is;
- ... have ever written a web page;
- ... have ever written any program;
- ... have ever written any shell script;
- ... have ever written a compiler;
 - (... maybe contributed to it?)
- ... have ever written an operating system...
 - (No, we have not either. Certainly **not by ourselves.**)
- ... could define what a software license is...
 - (Not nearly as fun, we know. Unfortunately we need them.)



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About GNU

GNU is an entirely **free-software** Unix-compatible **operating system**,
Started by Richard M. Stallman in 1983, continuously developed
and improved ever since.



Figure: RMS in 2019

(Publicly announced on September 27th 1983 — Almost exactly
39 years go)



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The Free Software definition

A piece of software is **free software** for you if you have:

0.

the freedom to **run it**, for any purpose

1.

the freedom to **study how it works, and change it** to make it do what you wish.

2.

the freedom to **redistribute copies** so that you can help your neighbor.

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GNU is big!

GNU is an “operating system” in a very **wide** sense:

- kernel (← Linux)
- system library
- shell
- interpreters
- development tools: compilers, assemblers, linkers...
- text editors
- graphics system (← The X Window System / Wayland)
- spreadsheets
- web browsers (← Firefox, Chrom[ium], ...)
- some specialised applications
- some specialised software
 - a photo editor (GIMP)
 - a language for beautiful documents (LaTeX)
 - tools for scientists
- ... (← ...)

Some of these components developed **outside** the GNU Project...



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 - accounting software
 - photo-retouching (!)
 - a language for beautiful printed music notation (!)
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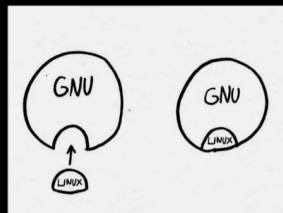
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GNU and Linux

Linux is a kernel. An important part of the GNU system, not developed by the GNU Project.

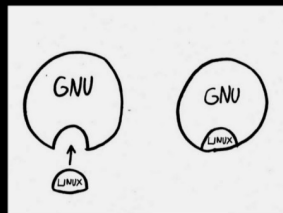
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A quick history of GNU

- 1980s: the early years
 - 1983: before mainstream Internet, RMS and a few volunteers
 - GNU Emacs
 - start rewriting Unix components *piece by piece*
 - important but not very visible software
 - GCC (originally GNU C Compiler)

- 1990s:

- 1991: GNU Emacs
 - 1992: GNU GCC
 - 1993: GNU Glibc
 - 1994: GNU Binutils
 - 1995: GNU Bash
 - 1996: GNU C++
 - 1997: GNU GDB
 - 1998: GNU Make
 - 1999: GNU Sed
 - 2000: GNU Findutils
 - 2001: GNU Coreutils
 - 2002: GNU Texinfo
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 - 2021: GNU Texinfo
 - 2022: GNU Texinfo

- 2000s: many external contributors

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- 1990s:

- 1985: GNU Project announced
 - 1989: GNU Project becomes a formal organization
 - 1992: GNU Project releases GNU Emacs, GNU C Compiler, GNU C Library, GNU Binutils, GNU Compiler Collection, GNU Debugger, GNU Fortran Compiler, GNU Go, GNU Guile, GNU ImageMagick, GNU Libc, GNU Libc++
 - 1993: GNU Project releases GNU C++ Compiler, GNU C++ Library, GNU C++ Standard Library, GNU C++ Standard Library, GNU C++ Standard Library, GNU C++ Standard Library

- 2000s: many external contributors

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- 1990s:
 - GNU is a serious contender for the Linux kernel
 - GNU is the first free operating system to be released in the form of a complete system
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- 2000s: many external contributors
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 - The GNU C library
 - 1991: GNU HURD
 - 1991: GNU C++
 - 1992: Linux: the GNU+Linux combination is usable!
 - 1990s: The Internet
- 2000s: many external contributors



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GHM 2022: İzmir, Turkey

This is the first GNU Hackers' Meeting **in Turkey** (and in Asia).

- Reach out to **find new interested people** and maybe contributors
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 - ... finally seeing our friend Mohammad from Iran in person?

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Thanks

Thanks for joining us today!

Now let us do a round of introductions.



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Bibliography I

