

INF105 - 07
FLOSS

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Programvare

Operativsystem

Hardware

Hvorfor Linux i INF105?

- Unix design: one tool has one job, composable.

- 1984: GNU project (GNU's not Unix) -> åpne userspace tools:

  shell, coreutils, binutils, GCC compiler, ...

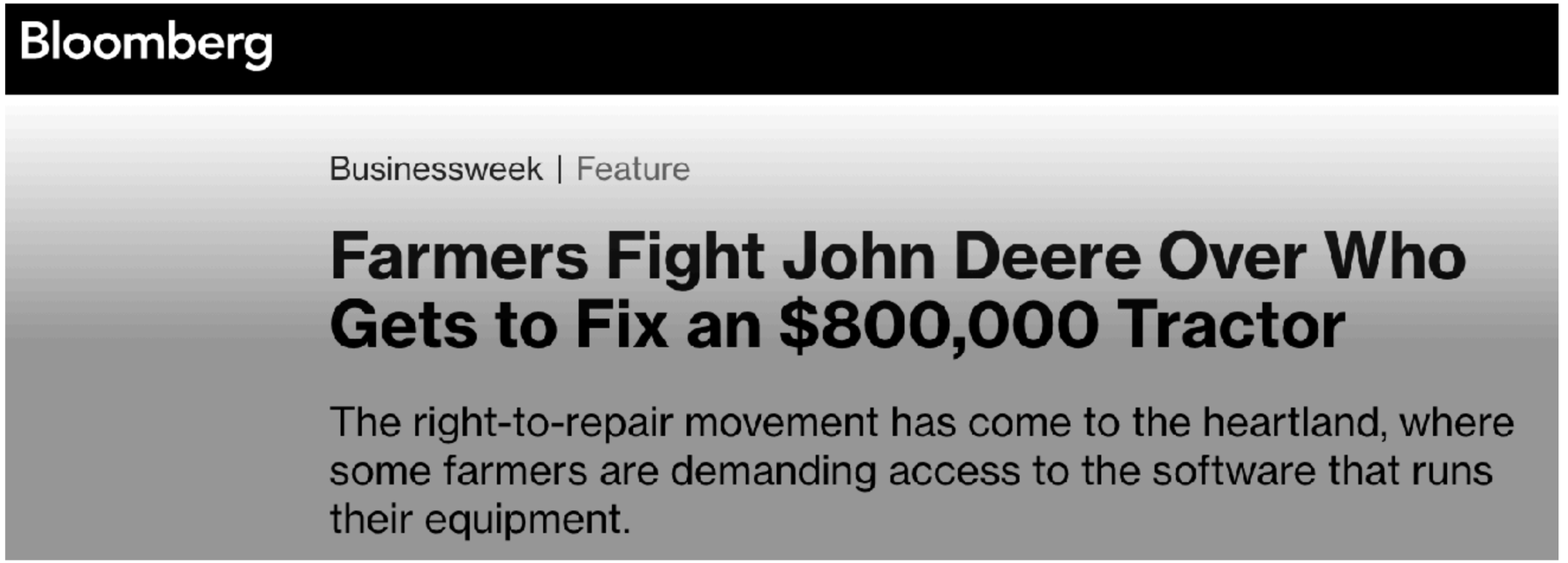
- 1991: Linux kernel -> åpent OS

- kunne også brukt FreeBSD / NetBSD / OpenBSD

Standoff Between Farmers And Tractor Makers Intensifies Over Repair Issues

MAY 26, 2021 · 7:19 AM ET

https://www.npr.org/2021/05/26/1000400896/standoff-between-farmers-and-tractor-makers-intensifies-over-repair-issues



https://en.wikipedia.org/wiki/John_Deere#Non-serviceability_by_owners_or_third_parties

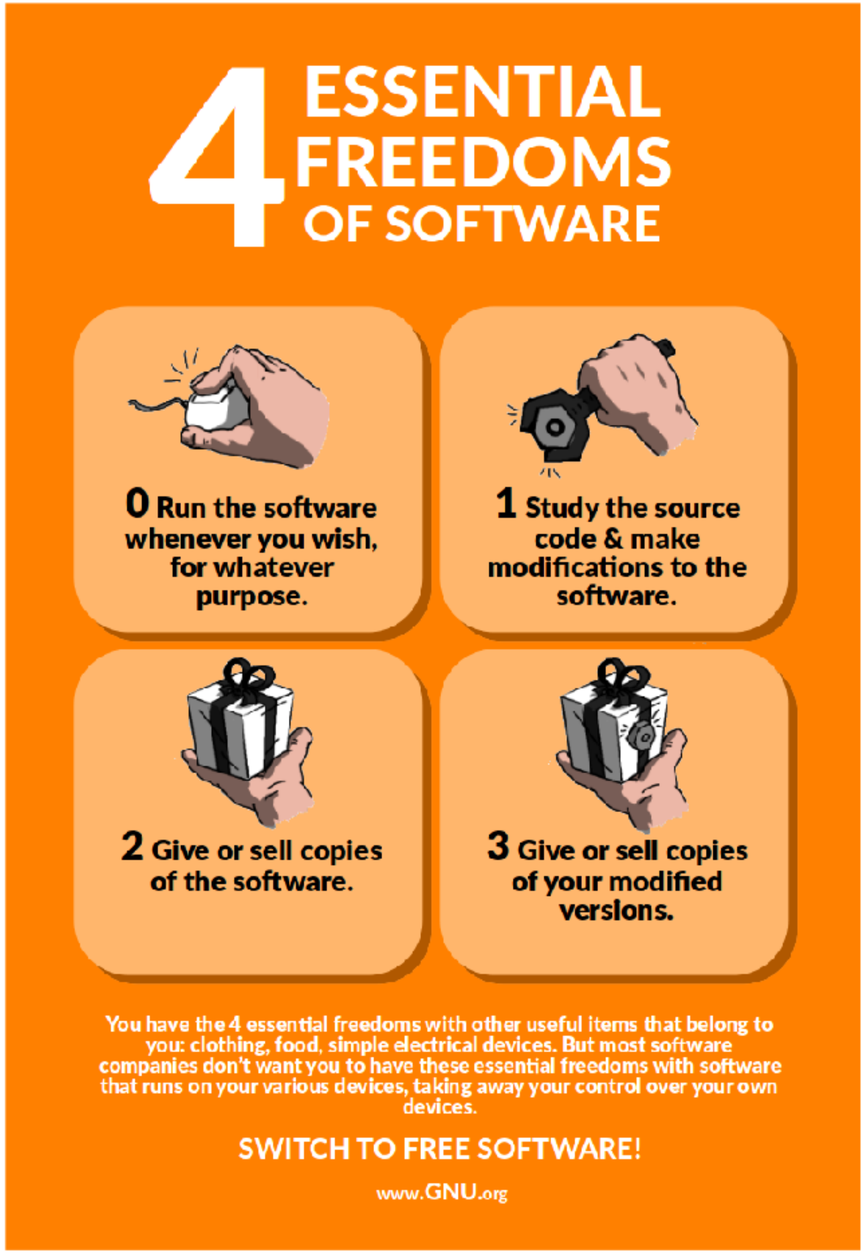
GNU - GNU's not Unix

- 1978: MIT AI lab får en ny laser printer, med lukket programvare
- ikke synlig til terminal-brukere når *paper jam* må fikses
- “So, despite our skill as programmers -- after all, we had written our own timesharing system -- we were completely helpless to add this feature to the printer software.” https://www.gnu.org/philosophy/rms-nyu-2001-transcript.txt
- 1984: GNU project (GNU's not Unix) -> åpent programvare, på fortsatt lukket UNIX
- 1991: Linux kernel: åpen implementering av et UNIX-system

FLOSS - free/ libre and open source software

mid 1980s

https://en.wikipedia.org/wiki/Free_software_movement



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FLOSS



0 Run the software whenever you wish, for whatever purpose.



1 Study the source code & make modifications to the software.

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FLOSS



2 Give or sell copies of the software.



3 Give or sell copies of your modified versions.

You have the 4 essential freedoms with other useful items that belong to you: clothing, food, simple electrical devices. But most software companies don't want you to have these essential freedoms with software that runs on your various devices, taking away your control over your own devices.

SWITCH TO FREE SOFTWARE!

www.GNU.org

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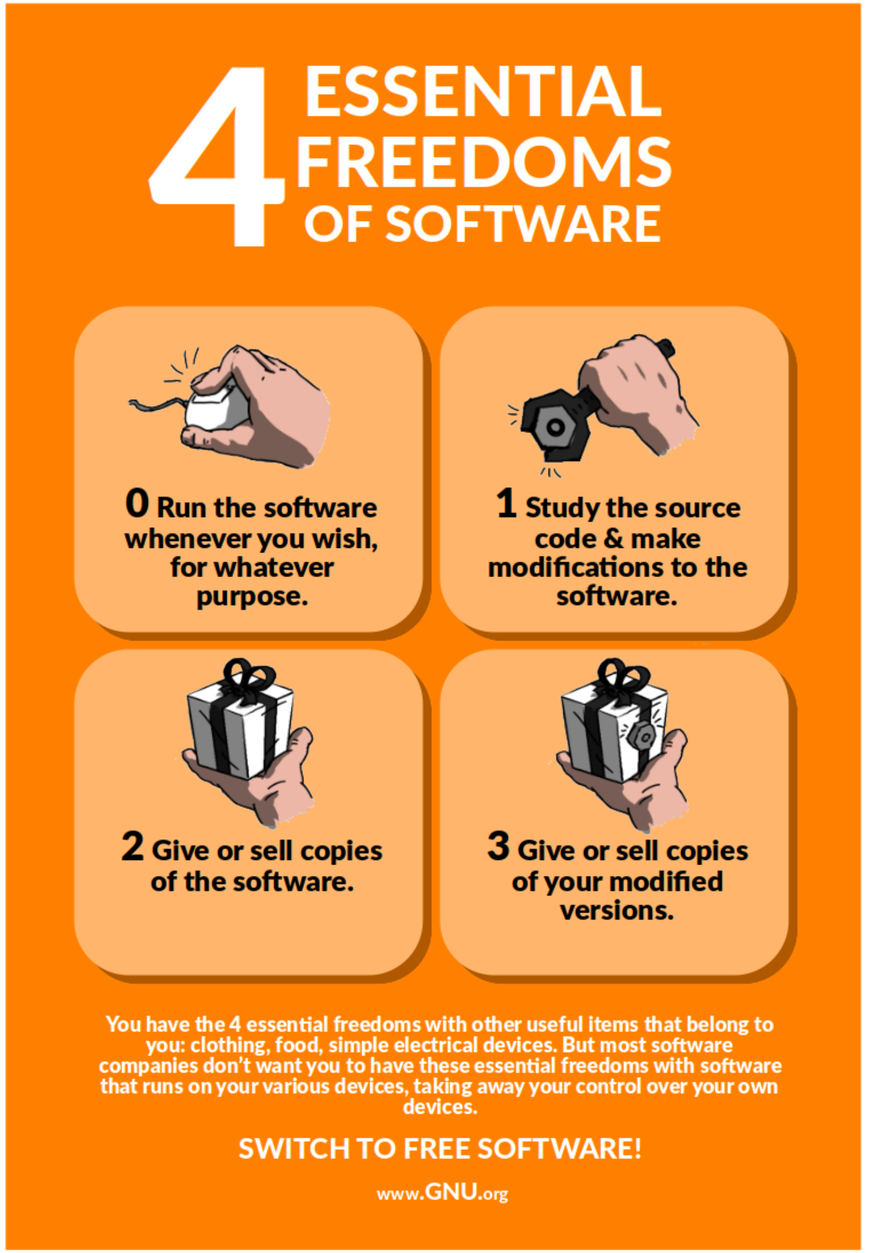
FLOSS - free/ libre and open source software

mid 1980s

https://en.wikipedia.org/wiki/Free_software_movement

1998

https://en.wikipedia.org/wiki/Open-source_software_movement



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Free/Libre vs Open Source

- "members of the free-software community maintain the vision that all software is a part of freedom of speech[3] and that proprietary software is unethical and unjust"

- "Members of the open-source community are willing to coexist with the makers of proprietary software[3] and feel that the issue of whether software is open source is a matter of practicality"

https://en.wikipedia.org/wiki/Open-source_software_movement

Free/Libre vs Open Source

- I praksis ikke veldig stor forskjell
- Hovedforskjell: *copyleft* / *share-alike*
- må snakke om copyright

"Intellectual Property"

- Trademark
- Patent
- **Copyright**

Det som følger er bare en grov oversikt!

Ikke stol på dette i konkrete saker,
få kompetent rettshjelp!

ny beskjed fra UiB:

onsdag avlyses alt frem til kl.16

ingen Q&A!

vi tar det etter forelesningen i dag

Også gjelder bearbeidelse

- "Enerett etter første ledd omfatter åndsverket i opprinnelig eller endret skikkelse, i oversettelse eller annen bearbeidelse, i annen litteratur- eller kunstart eller i annen teknikk."

https://lovdata.no/lov/2018-06-15-40/§3

Lisenser

- Lar noen andre publisere noe de ellers ikke har rett til

- Kan velges fritt av forfatteren
  (med mindre du gjenbruker noe som allerede har en lisens)

- i Europa - ikke mulig å gi fra retten til å bli nevnt som forfatter, bare økonomiske rettighetene kan overdras

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- **CC-BY-SA - share-alike - kan bare publiseres under lignende lisens (copyleft)**
- -NC - begrenset til ikke-commersiell bruk
- -ND - no derivatives - ingen endringer

f.eks CC0 animated movie

- *Sita Sings the Blues* by Nina Paley
- http://www.sitasingstheblues.com/license.html
- vanskelig å få rettighetene til musikken

Databaser

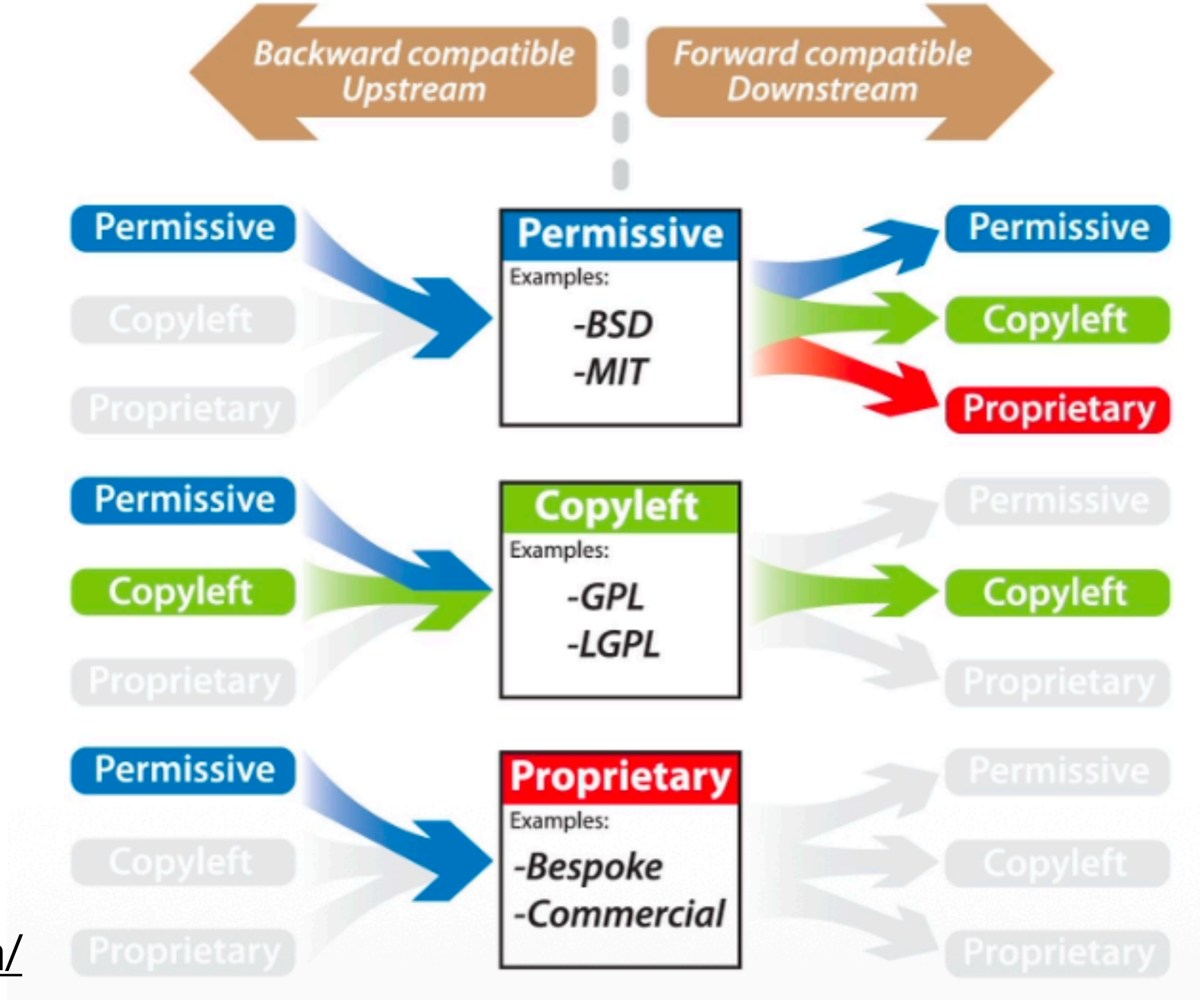
- https://opendatacommons.org/licenses/by/
- https://data.norge.no/nlod

Software

- GPL - krever **share-alike (copyleft)**
- MIT / BSD / Apache - permissive

- ikke lag din egen lisens, selv om det er mulig!

Hvilken lisens?



https://choosealicense.com/

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Some software incorporated into Python is under different licenses. The licenses are listed with code falling under that license. See Licenses and Acknowledgements for Incorporated Software for an incomplete list of these licenses.

FOSS code used as base

- GNU / Linux - stort sett GPL
- macOS / Darwin - BSD-basert
- clang/LLVM - Apache
-

Språkmodell?

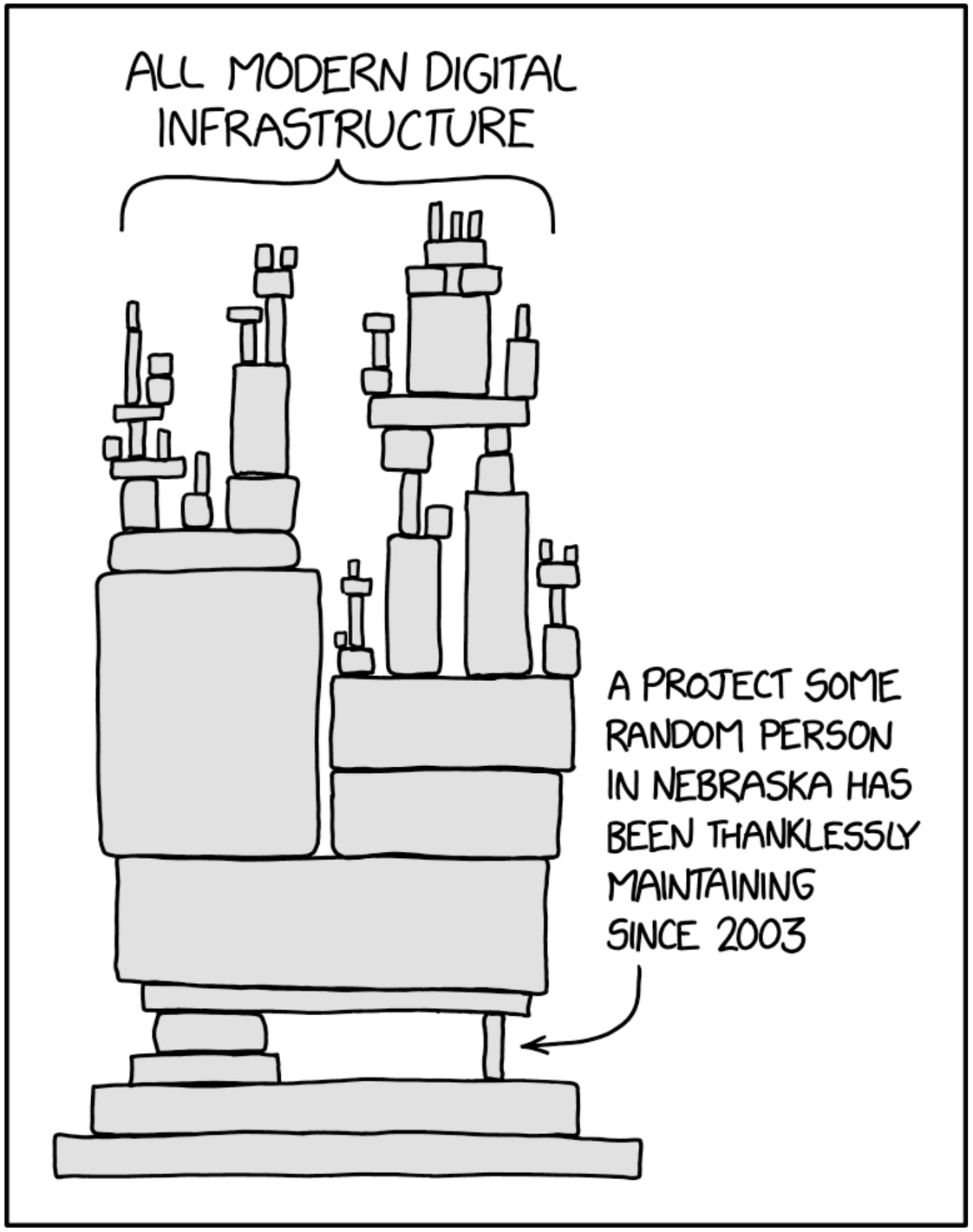
- hvis input data er GPL
- output? vi får ikke informasjon
- LLM output itself is not copyrightable at all (USA)
- Human authorship requirement

Språkmodell?

- Human authorship requirement
- https://en.wikipedia.org/wiki/Monkey_selfie_copyright_dispute



FOSS software



https://xkcd.com/2347/

Rød tråd

