

# SEMANTIC DATA ORGANISATION

---

*Alessandro Bassi  
NGI event, Porto*

# WHAT IS THE PROBLEM?

---

- Data collected is steadily growing, since at least 25 years ...
- We have many options where to store the data: on device, edge, NAS, cloud ...
- While some “platform” provide transparent access, it is not always clear where the information actually is.
- Furthermore, there are some weird (and suspicious) links between data: why does facebook proposes to me as a friend a photographer I bought a Mac G5 server in 2014, and never had any relation with before or after?

# DATA ORGANISATION

---

- Something really different between computers and humans is memory organisation
- Computers have a positional memory
- Humans have a associative memory (this is why smart people often have messy desks :)
- It might be interesting to mimic the human memory's organization
- As well, information we might need could be dynamically stored “close” to us, while info of no immediate importance can go in some Finnish data center.

## GOOD IDEA ... BUT ...

---

- Technologically is possible, and given the proliferation of different storage paradigms even likely ... but ..
- What about privacy?
- What about data which is related to mine but I don't "own"? (for instance, picture of my son and his friends playing?). Where can it be put? Will we have a license scheme like software (GPL, Apache, BSD ... ) for data as well? And this license will have to match the data storage used?