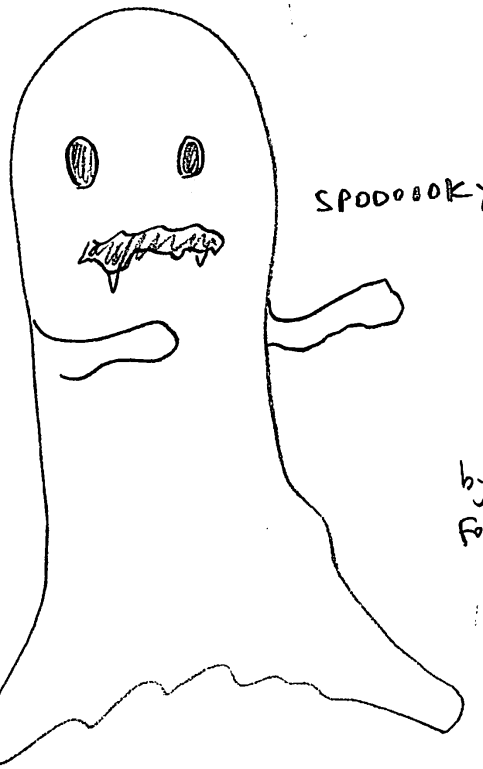
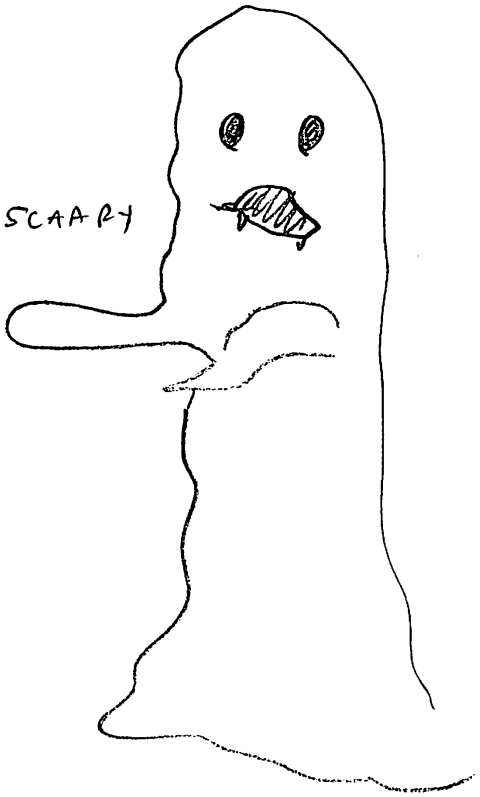
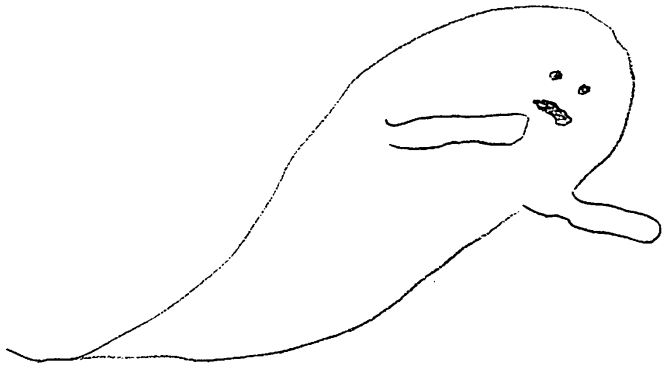
OPEN DATA

an official zine





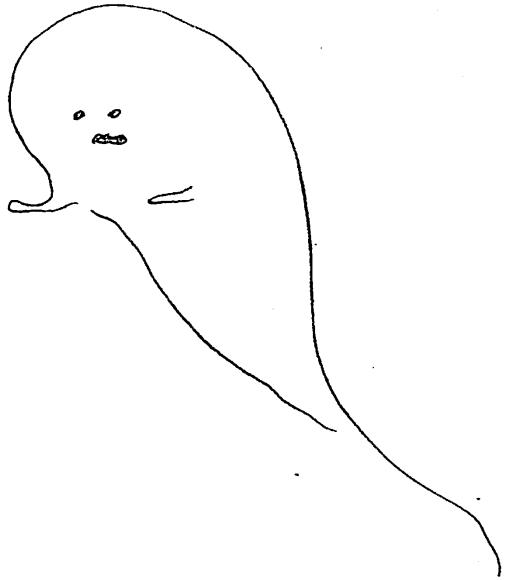
by VANESSA RAYMOND
for IARC SALON
November 11, 2017



OPEN DATA

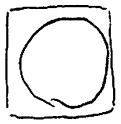
is a

STATE of MIND



- START EARLY
- BUILT IN TO EVERY STEP of the project
- A KEY DELIVERABLE
- REQUIRES ADEQUATE LICENSING TO PROTECT KEY PARTIES
- REQUIRES DEDICATED THOUGHT ⊕ FOCUS
- AFFECTS MULTIPLE ASPECTS of WORK including:
  - softwares used
  - file formats
  - collaborative agreements
  - archive + data catalog selection
- SHIFTS PROJECT FUNDS from expensive software to sustaining accessibility

HOW CAN OTHERS ACCESS THE DATA?

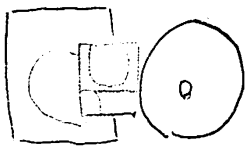


hard drive

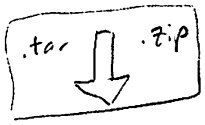
code/ algorithm

VCS

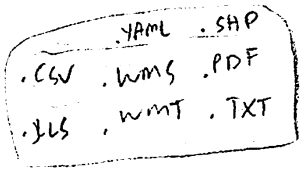
database



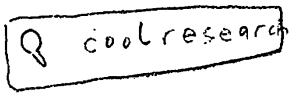
DISK ?!?!?



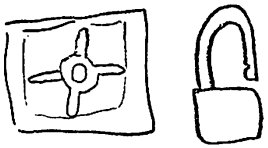
DOWNLOAD



WEB ACCESSIBLE, INTEROPERABLE FILE FORMAT



- SEARCHABLE
- FINDABLE
- TAGGED
- METADATA-ICIOUS
- USER FRIENDLY
- MAINTAINED
- REUABLE
- INTEROPERABLE
- CAN BE REPLICATED/ REPRODUCED



- LONG TERM ARCHIVE
- STABLE URL
- SUSTAINED FUNDING

is the data ... ?

- COMPLETE
- IDENTIFING ALL COLLABORATORS
- DESCRIBED, LOCATION, UNITS of MEASURE, TIMEFRAME, FUNDING

] well documented

- LINKED TO PUBLISHED OUTCOMES
- TAGGED to be findable
- ONLINE, or at least findable online
- FREE
- APPROVED FOR SHARING BY COMMUNITY

ASK YOURSELF

who could be harmed by this data being made open?

who could benefit from open access to this data?

how can I protect vulnerable affected groups?

If safe, how could your data be MORE open?

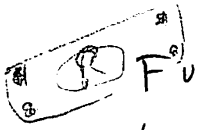
who could feasibly access and use this data?

what resources would they need to do so?

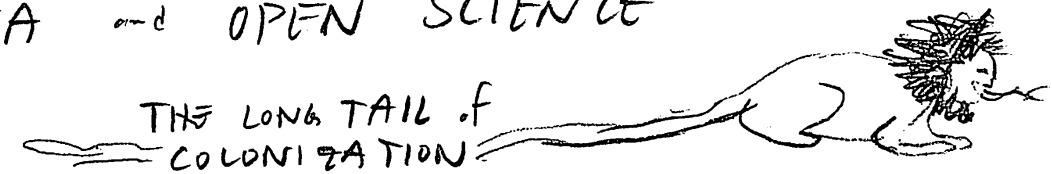
how can I simplify access to this data?

CHALLENGES
to OPEN DATA and OPEN SCIENCE

ACADEMIC STRUCTURES
- ↳ authorship
- ↳ "publish or perish"
- ↳ tenure pressures
- ↳ competing for funds



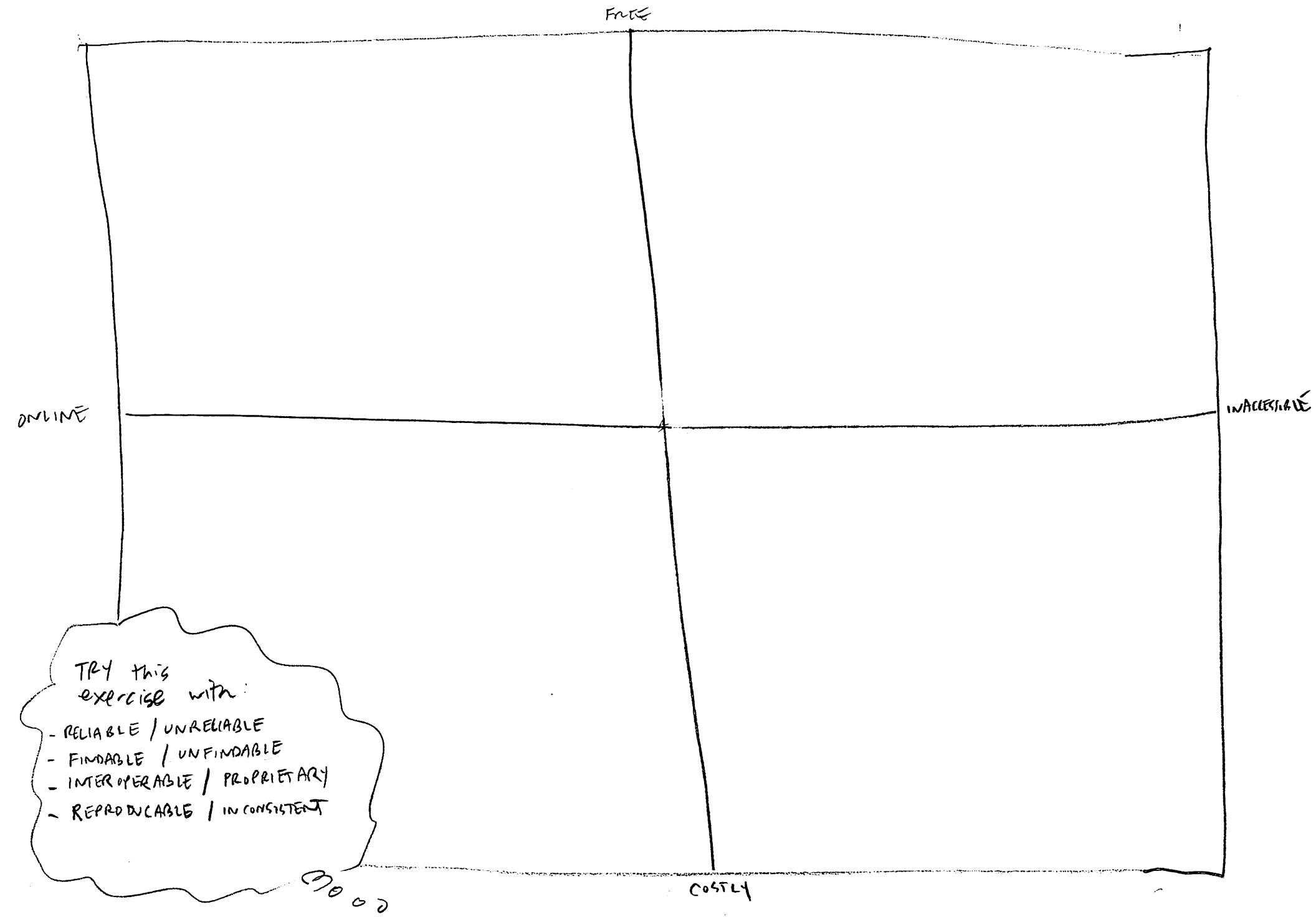
FUNDING MECHANISMS
- ↳ project cycle
- ↳ technical knowhow
- ↳ historic use of a system or software
- ↳ convincing funders



THE LONG TAIL of COLONIZATION
- ↳ self-protective communities
- ↳ vulnerable populations
- ↳ privacy concerns, protection of minors

CULTURE + NORMS
- ↳ convincing project partners
- ↳ dedicating the time + labor

TECH SAVVY + KNOW HOW
- ↳ access to research programmers
- ↳ patience to learn new things
- ↳ hackatons or other support


FREE
ONLINE
INACCESSIBLE
COSTLY
TRY this exercise with:
- RELIABLE / UNRELIABLE
- FINDABLE / UNFINDABLE
- INTEROPERABLE / PROPRIETARY
- REPRODUCABLE / INCONSISTENT
Good

SOME TOOLS

for sharing data

QGIS

JUPYTER
notebooks

AWS

GITHUB

DOCKER

CKAN

OPEN STREET MAPS

- OPEN AERIAL
- OPEN DRONEMAP
- OPEN STREETCAM

PYDATA.org