Open Project Management

from an "open" perspective

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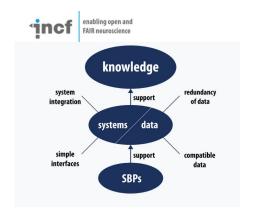


All content



Great Interest in Making Working Open Part of a Skillset

FAIR (findable, accessible, interoperable, reproducible) standards



Entrepreneurship from Home



Open Government Initiative (White House)

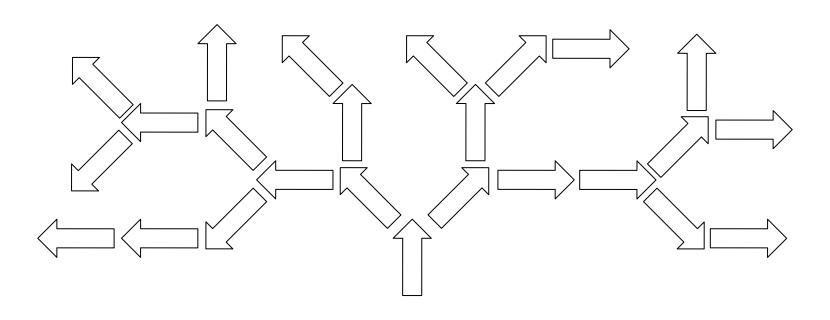




Neuromatch Academy virtual summer school for Neuroscience and Deep Learning

Open Project Management

Review Unit 1



Working Open: Introduction

An introduction* to the tools, systems, and processes of open source, open access, and open working as applied to a host of domains (open x,y,z).

* many of the topics in this unit will be revisited in more detail in later units.

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Five pillars of open working

(freely available source, copyleft licensing, free distribution/remix, tech neutral, versions).

Distinct productivity model (vs. proprietary).

Project genealogies (forks beget forks).

Role of social capital

(trust, positive social attention, innovation, reciprocity, altruism).

Working Open: Collaboration

Collaboration in the abstract

- Project-outcome-process.
- Workflow vs. roadmap.
- Vision statements and planning for 1, 5, and 10 year horizons.

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Collaboration in practice

- Distributed collaboration and its challenges (geography, workstyles, differential skills).
- Managing distributed research groups (Orthogonal Research and Educational Lab, Active Inference Institute).

Working Open: Collaboration (con't)

Collaboration in practice (con't)

- Notetaking, video, and tool coordination.
- Interdisciplinary, facilitation, and flexibility (reconfigure).

Working Open: Git and Version-control Tools

Conventions of version-control

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- Backward and forward compatibility (catalyze innovation).

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Functions of version-control

- Tracking contributions and document changes.
- Organization (into repositories and directories).
- Traceability (diffs, history, contributor activity, linked to issues).
- Cloning and releases (technology-neutral distribution).

Working Open: Governance

Technology mediated

- Authority control.
- Argumentation.
- First principles (Wikipedia example).

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Policy creation

- Conduct and statements of values.
- Organization-wide specific aims.
- Disruptive force of new technologies.

Working Open: Governance (con't)

Organization-wide specific aims

- Community standards.
- Contributing guidelines.
- Technology stacks.

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Disruptive force of new technologies

- New tools (generative models, video conferencing, Github).
- New rules and legal regimes (new licenses and community standards).
- Opportunities for new project directions (modifies roadmap).

Working Open: Licensing and Open Data

Different licensing regimes

- Software licenses.
- Content creation licenses.
- Specialized licenses (generative models CreativeML, open hardware CERN).

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Working Open with Data

- Transparency vs. security (stakeholder relations, formal data strategy).
- Standards (FAIR, GDPR).
- Formats (csv, json, Markup documents, etc).

Working Open: Elements for Docs

Technology Stack

- Markup languages (Markdown, HTML, LaTeX).
- Version-control (Git and other methods).
- Coordinating process-oriented tools (programming languages, platforms).

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Docs and Pipeline for Docs

- How to implement.
- Documentation as representations of community organization and interest.
- Pros and cons of Markdown and other methods.

Questions?

Quiz #1

https://github.com/OREL-group/Project-Management/blob/main/Quiz%201/README.md