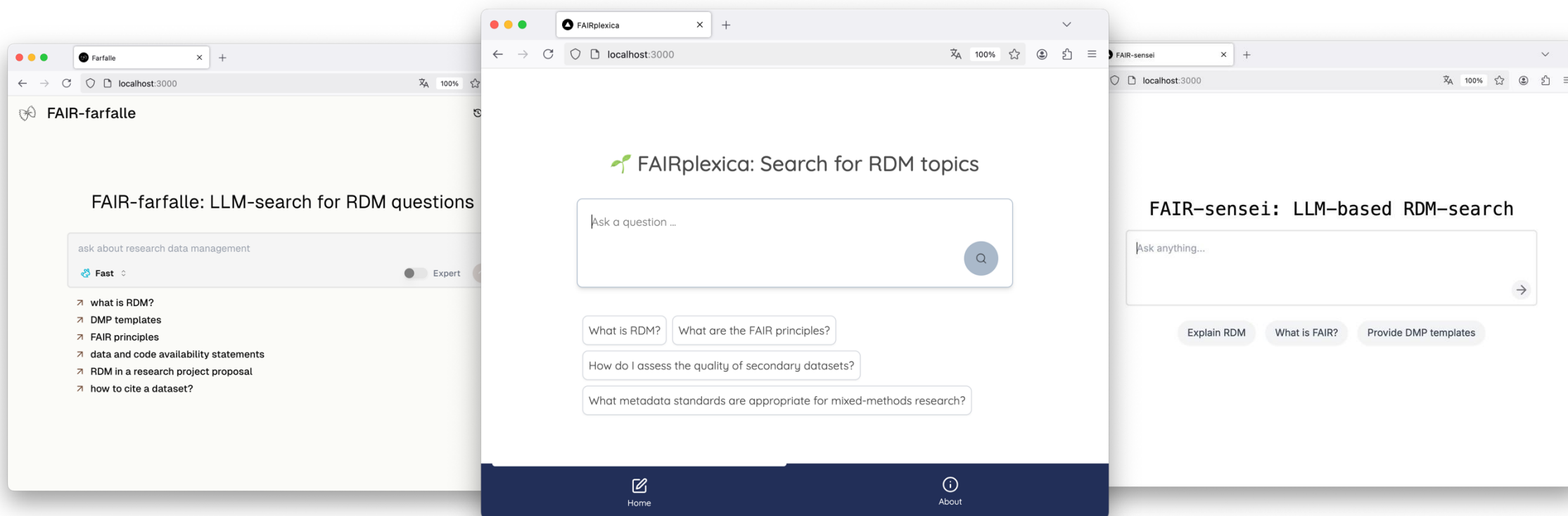


Perplexity-inspired metasearch-based alternatives to FAIR GPT: Open-source AI consultants for RDM

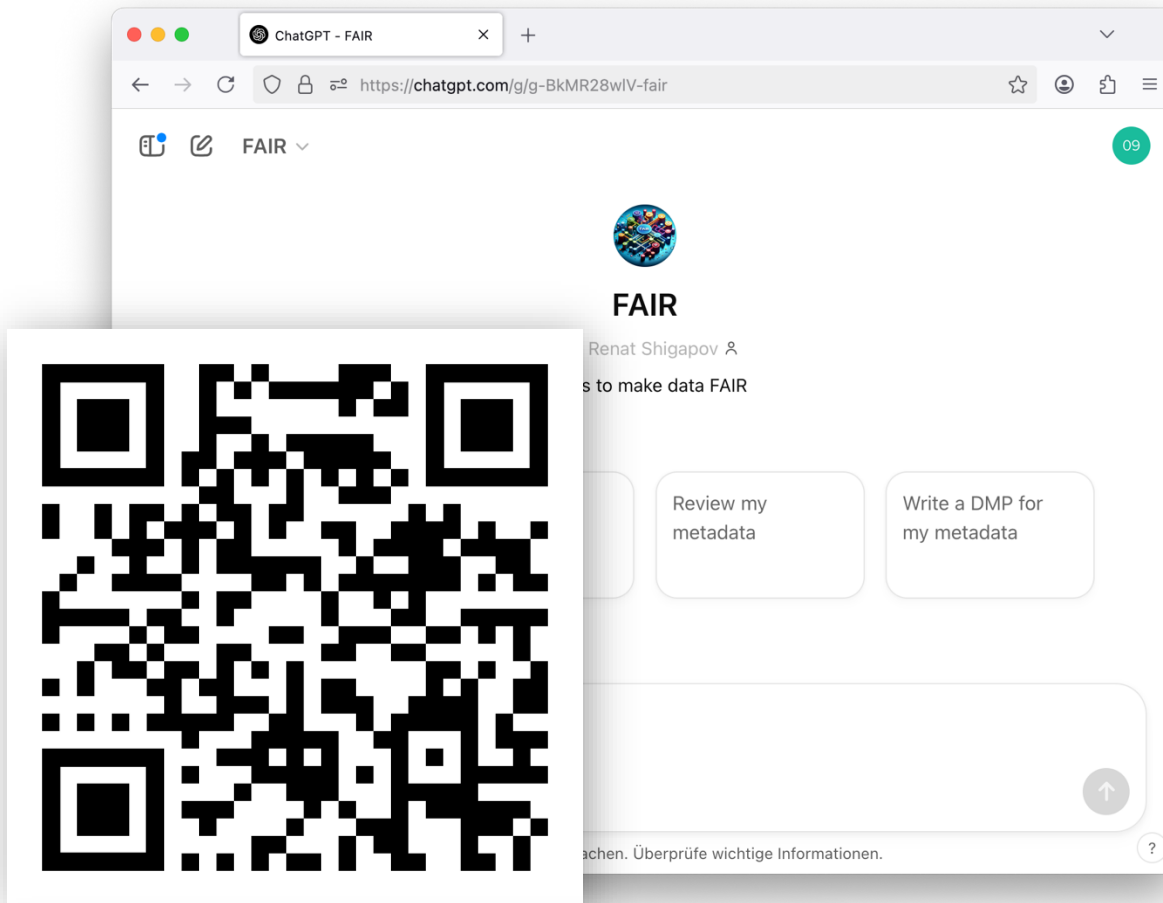
E-Science-Tage Heidelberg 2025



What are open-source AI consultants for RDM?

- **Chatbot / recommendation tool** for answering RDM questions with Large Language Models (LLMs):
 - FAIRness assessment
 - Repository recommendation
 - Metadata assistant ...
- Based on **static** and / or **dynamic knowledge**:
 - *Static*: uploaded documents
 - *Dynamic*: web search and APIs
- Code base and LLMs are **open source**

FAIR GPT – Features and limitations

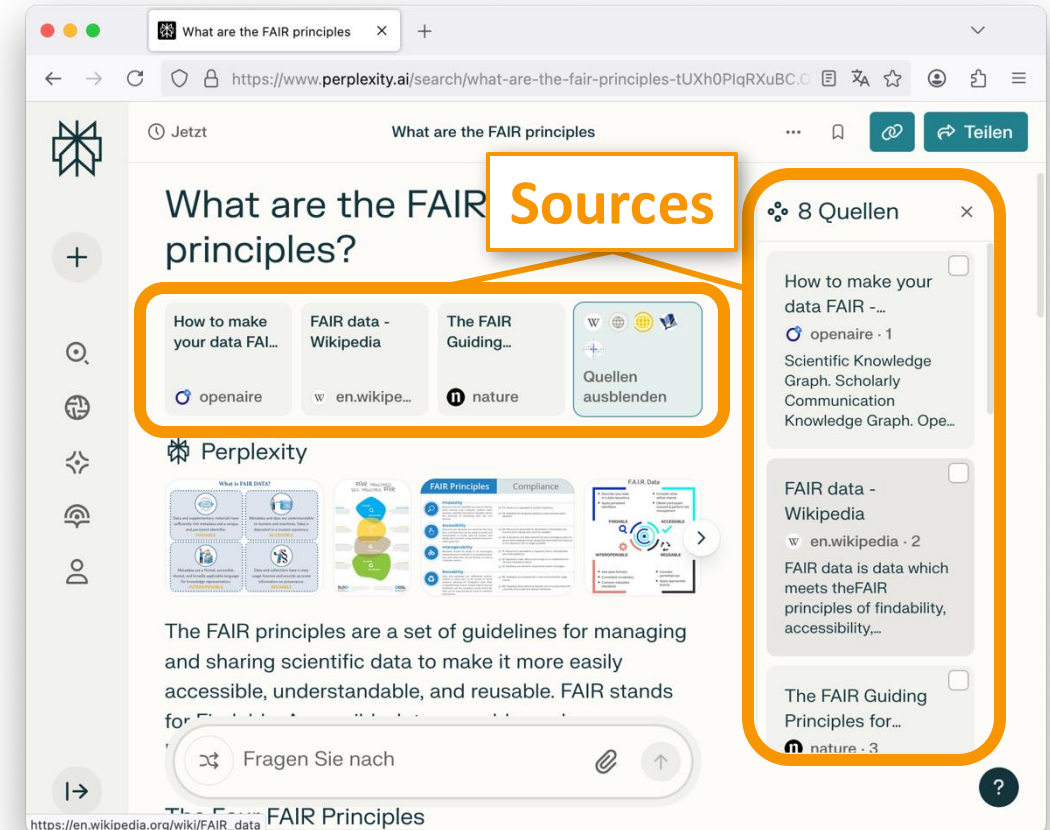


<https://chat.openai.com/g/g-BkMR28wIV-fair>

- Metadata review
- Documentation help
- Repository recommendations
- FAIR assessment
- License consulting ...
- Hallucinations
- Static knowledge but dynamic field of RDM
- Lack of transparency (what knowledge sources were used?)
- Privacy concerns ...

Open-source alternatives to FAIR GPT

- Idea to improve limitations:
Perplexity.ai with open-source components
- Domain specific context → *RDM*
- Reduce hallucinations → *sources*
- Transparency → *sources*
- Dynamic knowledge → *web search*
- Privacy → *local LLMs*



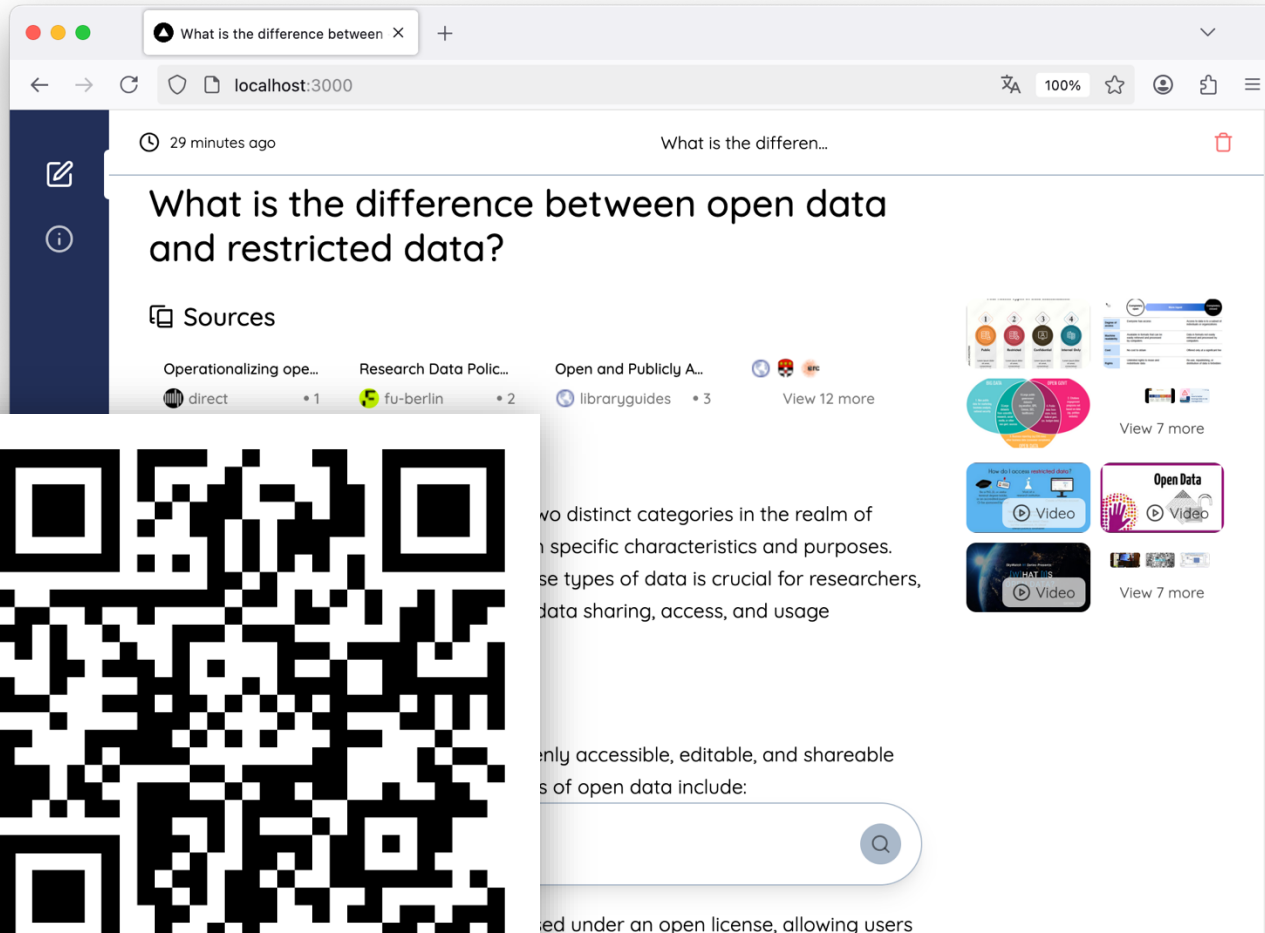
<https://www.perplexity.ai>

Open-source alternatives to FAIR GPT

positive, neutral, negative

Original Repo	Sensei	Farfalle	Perplexica
Fork	<i>FAIR-Sensei</i>	<i>FAIR-Farfalle</i>	<i>FAIRplexica</i>
LLM Providers	OpenAI, Anthropic	OpenAI, Groq	OpenAI, Groq, Google, Anthropic
Local LLMs	yes (hardcoded)	yes (Ollama, litellm)	yes (Ollama, custom OpenAI API endpoints)
Search Engine	SearXNG	SearXNG	SearXNG
GitHub Stars	426	ca. 3.200	ca. 20.300
Last Commit	Oct. 2024	Sep. 2024	Feb. 2025
Production-ready	no	no	yes
License	Apache 2.0	Apache 2.0	MIT
Result	😊😊😊😊😊😞😞	😊😊😊😊😊😞😞	😊😊😊😊😊😊😊😊😊😊

Open-source alternatives: FAIRplexica



- Original repo **Perplexica**:
github.com/ItzCrazyKns/Perplexica
 - Last commit: February 2025
 - > 20k GitHub stars
 - Ollama / custom OpenAI-API integration
 - MIT License
- Fork **FAIRplexica**:
 - Web search focus: RDM
 - Admin login for LLMs / API settings
 - UI improvements

<https://fdz.bib.uni-mannheim.de>

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Sources

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2. FAIR GPT at OpenAI: <https://chat.openai.com/g/g-BkMR28wIV-fair>
3. Perplexica at GitHub: <https://github.com/ItzCrazyKns/Perplexica>
4. FAIRplexica at GitHub: <https://github.com/UB-Mannheim/FAIRplexica>
5. Farfalle at GitHub: <https://github.com/rashadphz/farfalle>
6. FAIR-farfalle at GitHub: <https://github.com/UB-Mannheim/FAIR-farfalle>
7. Sensei at GitHub: <https://github.com/jjleng/sensei>
8. FAIR-sensei at GitHub: <https://github.com/UB-Mannheim/FAIR-sensei>