

Programming for Biomedical Informatics

Lecture 4 "Bulk FTP Download & APIs"

https://github.com/tisimpson/pbi

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Programming Topics

Updates

- Don't forget to sync the PBI GitHub regularly
- Assignments (and assignment 2)
- New Starts

Libraries

- `pandas`
- PrettyTable`
- `seaborn`

Visual Studio Code

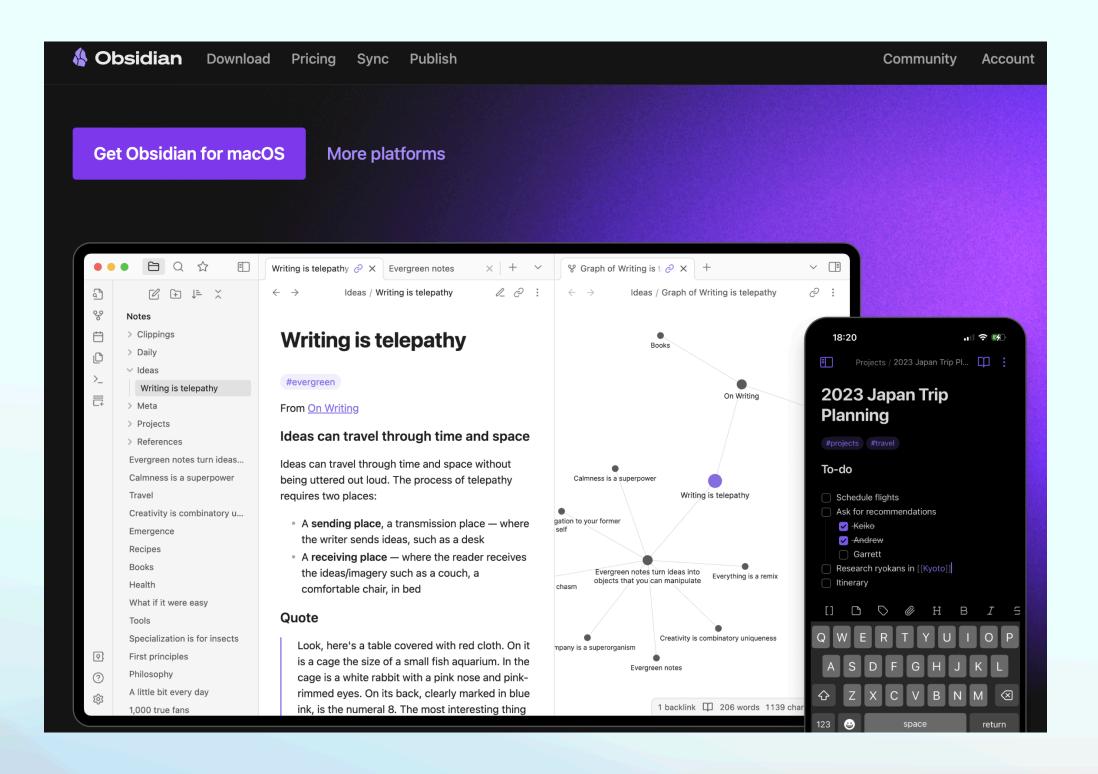
- Pandas Notebook
- Clinical Genetics Notebook

Keeping records

- Obsidian
- Markdown
- Commenting



Obsidian - https://obsidian.md/



- Markdown-based: Obsidian uses Markdown formatting, which is easy to learn and widely compatible with other systems.
- **Linking Thoughts**: Supports bi-directional linking, allowing you to connect ideas and notes in a networked way, rather than hierarchically.
- Local Storage: Your data is stored locally on your device, ensuring privacy and control over your information.
- Extensible with Plugins: add plugins to extend functionality, ranging from simple themes to complex data analysis tools. Hugely customisable
- Community-Driven: An active community that contributes plugins, workflows, and advice on how to best use Obsidian. Lots of blogs, tips.
- Cross-platform: Available on Windows, macOS, Linux, iOS, and Android, allowing for flexibility in how and where you use it.
- **Graph View**: Visual representation of your notes and how they're interconnected, which can help with understanding and navigating your knowledge base.
- Free: With an optional subscription service for additional sync and publishing services.
- Version Control: track changes and revisions over time can work with GitHub/GitLab



References

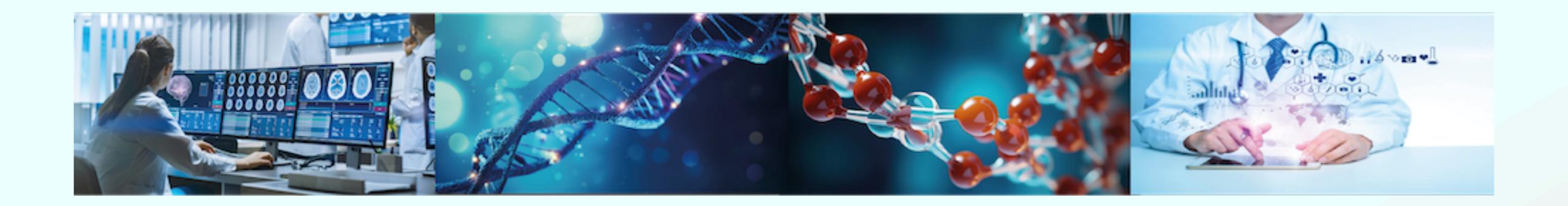
Useful Links

- ELM (local UoE "private" ChatGPT) https://elm.edina.ac.uk/elm/elm/elm
- Markdown Cheatsheet https://www.markdownguide.org/cheat-sheet/
- Pandas https://pandas.pydata.org/
- Seaborn https://seaborn.pydata.org/
- PrettyTable https://pypi.org/project/prettytable/

Biomedical Data

- GenCC https://thegencc.org/
- NCBO Bioportal https://bioportal.bioontology.org/
- NCBO Bioportal API http://data.bioontology.org/documentation





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Next Lecture "Mapping & Harmonisation"

Ask Questions on the EdStem Discussion Board

