

Data Science Basics: Additional Resources

Ethan Yoo, Data Science Graduate Specialist

Last updated: March 1, 2023

ethan.yoo@rutgers.edu

Microsoft Excel

- **LibreOffice Calc and functions by category**
- **Microsoft documentation**
- **Saylor Academy: Spreadsheets, Spreadsheets II, Spreadsheets III**

OpenRefine

- **Data Carpentry**
 - [OpenRefine for Social Science Data](#)
 - [Data Cleaning with Open Refine for Ecologists](#)
- [**OpenRefine user manual**](#)

SQLite and SQL

- **Tutorials**
 - [Data Carpentry](#) (uses **DB Browser for SQLite**)
 - [SQLBolt](#) (browser-based)
 - [SQL Zoo](#) (browser-based)
- [SQLite documentation](#)
- [Library of Congress: SQLite, Version 3](#)
 - **Technical details**
 - [Useful references](#)

SQL Queries

- **Tutorials**
 - [Data Carpentry](#) (uses **DB Browser for SQLite**)
 - [Khan Academy](#) (browser-based)
 - [SQLBolt](#) (browser-based)
 - [SQL Zoo](#) (browser-based)
- **Documentation**
 - [MySQL 8.0](#)
 - [PostgreSQL 15.2](#)
 - [SQLite](#) (e.g., [SELECT](#))

Command Line and Scripting

- **Kaggle** (e.g., [Intro to Programming](#))
- **Launch School:** [Introduction to the Command Line](#)
- **Library Carpentry:** [The Unix Shell](#)
- **Pandoc:** [Demos](#)

As you learn to code, please be aware of the power you are gaining. As you work on projects, whether your own projects or those that are controlled by someone else, please focus on projects that share power. Please refuse to work on projects that consolidate power, especially for those who will use it against others. ([Coding is political](#))

Python Programming

- **Coding is political** and **Coding for social justice**
- **freeCodeCamp**
- **Harvard University:** CS50's Introduction to Programming with Python
- **Kaggle** (e.g., Python)
- **Python 3 documentation** and **Python for non-programmers**
- **Saylor Academy:** Introduction to Python
- **Swarthmore College:** Python reference
- **University of Helsinki:** Python Programming
(Introduction to Programming and Advanced Course in Programming)