

Unit 1: An Introduction to Python Programming and the OO Programming Paradigm

Required Reading

Reitz, K. (2016) *The Hitchhiker's Guide to Python: Best Practices for Development*. O'Reilly.

- Chapter 3.

Joque, J. (2016) The Invention of the Object: Object Orientation and the Philosophical Development of Programming Languages. *PD2:D23hilos. Technol.* 29: 335–356.

Seth, A., Aggarwal, H. & Singla, A. (2011) Evolution of Technology through Procedural, Object Oriented and Component Based to Service Oriented. *Journal for Computing Teachers*. An ISTE's Special Interest Group for Computing Teachers (SIGCT)).

Padhy, N., Satapathy, S., & Singh, R.P. (2018) 'State-of-the-Art Object-Oriented Metrics and Its Reusability: A Decade Review', in: Satapathy S., Bhateja V., Das S. (eds) *Smart Computing and Informatics. Smart Innovation, Systems and Technologies*. 77. Springer.

Di Silvestro, F. & Nadir, H. (2021) The Power of ePortfolio Development to Foster Reflective and Deeper Learning in an Online Graduate Adult Education Program. *Adult Learning* 32(4):154-164.

W3C Schools (n.d) Python Data Types.

- Required for Collaborative Discussion

Van Rossum, G., Warsaw, B. & Coghlan, N. (2001) PEP 8 – Style Guide for Python Code.

Github (n.d) Set up Git.

Additional Reading

Rumbaugh, J., Jacobson, I., & Booch, G. (2004) *The Unified Modeling Language Reference Manual*. 2nd ed. Addison-Wesley.

- Chapter 1.

Etzkorn, L. & Delugach, H. (2000) Towards a semantic metrics suite for object-oriented design. Proceedings. 34th International Conference on Technology of Object-Oriented Languages and Systems - TOOLS. 34: 71-80. DOI: 10.1109/TOOLS.2000.868960.

Zolkifli, N. N., Ngah, A. & Deraman, A. (2018) Version Control System: A Review. *Procedia Computer Science*. 135. 408-415. ISSN 1877-0509. DOI: 10.1016/j.procs.2018.08.191.

Peters, T. (2004) PEP 20 - The Zen of Python.

- Required for Collaborative Discussion

Hansen, C. (2020) Python Keywords: An Introduction. Real Python.

Anon (n.d) 4.3. Encapsulation, Inheritance, and Polymorphism. O'Reilly.