Unit 3: UML

This week's reading focuses on the strengths and weaknesses of using UML to examine the design of software on paper prior to its implementation.

Required Reading

Philips, D. (2018) Python 3 Object-Oriented programming. 3rd ed. Packt Publishing

Chapter 1.

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

• Chapter 3.

Lange, C. F. J., Chaudron, M. R. V. & Muskens, J. (2006) In practice: UML software architecture and design description. *IEEE Software* 23(2): 40-46.

Grady, B., Robert, A., Maksimchuk, M., Engle, W., Young, B., Connallen, J. & Houston, K. (2008) Object-oriented analysis and design with applications. 3rd ed. SIGSOFT. 33(5).

IBM. (2021) UML Models and Diagrams.

Additional Reading

Bettini, L., Loreti, M. & Venneri, B. (2003) 'On Multiple Inheritance in Java', in:
D'Hondt, T. (eds) Technology of Object-Oriented Languages, Systems and
Architectures. The Kluwer International Series in Engineering and Computer Science,
vol 732. Springer, Boston, MA. https://doi.org/10.1007/978-1-4615-0413-9_1. pp. 115.

Lucas, F., Molina, F. & Ambrosio, T. (2009) A systematic review of UML model consistency management. *Information and Software Technology* 51(12):1631-1645. ISSN 0950-5849.