

References

This page consolidates all references used across the TCSS 305 course materials.

By Topic

Java Fundamentals

Books:

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley.
- Horstmann, C. S. (2022). *Core Java, Volume I: Fundamentals* (12th ed.). Oracle Press.
- Reges, S., & Stepp, M. (2020). *Building Java Programs* (5th ed.). Pearson.

Documentation:

- [Oracle JDK 25 Documentation](#) – Official Java SE reference
- [Oracle Java Tutorials](#) – Official tutorials

Object-Oriented Design

Books:

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley. Chapters 3-4.
- Horstmann, C. S. (2022). *Core Java, Volume I: Fundamentals* (12th ed.). Oracle Press. Chapters 5-6.

Papers:

- Meyer, B. (1992). Applying "Design by Contract". *IEEE Computer*, 25(10), 40-51.

Online Resources:

- [Design by Contract \(Wikipedia\)](#) – Overview of contract-based design

Testing

Books:

- Beck, K. (2002). *Test Driven Development: By Example*. Addison-Wesley.

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley. Chapter 10.

Documentation:

- [JUnit 5 User Guide](#) – Official JUnit 5 documentation
- [JUnit 5 API Documentation](#) – Javadoc for JUnit 5

Articles:

- Fowler, M. (2012). [The Practical Test Pyramid](#) – Testing strategies and test types
- [Arrange-Act-Assert Pattern](#) – Test structure pattern documentation

Code Quality and Style

Books:

- Martin, R. C. (2008). *Clean Code: A Handbook of Agile Software Craftsmanship*. Prentice Hall.
- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley. Chapter 9.

Style Guides:

- [Google Java Style Guide](#) – Industry-standard style guide
- [Oracle Code Conventions for Java](#) – Original Sun/Oracle conventions

Tools:

- [Checkstyle Documentation](#) – Official Checkstyle documentation
- [Checkstyle Checks Reference](#) – Complete rule reference

Logging

Books:

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley. Item 72.
- Horstmann, C. S. (2022). *Core Java, Volume I: Fundamentals* (12th ed.). Oracle Press. Chapter 7.

Documentation:

- [Oracle JDK 25: java.util.logging](#) – Official logging API
- [Oracle Java Logging Overview](#) – Logging architecture guide

Frameworks:

- [SLF4J Manual](#) – Simple Logging Facade for Java

- [Log4j 2 Documentation](#) – Apache Log4j 2

Development Tools

IDE:

- [JetBrains IntelliJ IDEA Documentation](#) – Official IDE reference
- [IntelliJ IDEA Getting Started](#) – Beginner tutorials
- [IntelliJ IDEA Code Inspection](#) – Inspection documentation

Version Control:

- Chacon, S., & Straub, B. (2014). *Pro Git* (2nd ed.). Apress. – [Free online](#)
 - [GitHub Documentation](#) – Official GitHub guides
 - [GitHub Desktop](#) – GUI application for Git operations
 - [GitHub Classroom](#) – Educational features for assignments
 - [GitHub Student Developer Pack](#) – Free developer tools for students
 - [A Short History of Git](#) – Why Git was created
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By Type

Books

Author	Title	Year	Publisher
Beck, K.	<i>Test Driven Development: By Example</i>	2002	Addison-Wesley
Bloch, J.	<i>Effective Java</i> (3rd ed.)	2018	Addison-Wesley
Chacon, S., & Straub, B.	<i>Pro Git</i> (2nd ed.)	2014	Apress
Horstmann, C. S.	<i>Core Java, Volume I: Fundamentals</i> (12th ed.)	2022	Oracle Press
Martin, R. C.	<i>Clean Code</i>	2008	Prentice Hall

Author	Title	Year	Publisher
Reges, S., & Stepp, M.	<i>Building Java Programs</i> (5th ed.)	2020	Pearson

Papers

Author	Title	Publication	Year
Meyer, B.	Applying "Design by Contract"	<i>IEEE Computer</i> , 25(10), 40-51	1992

Documentation

Resource	Description
Oracle JDK 25 Documentation	Official Java SE reference
Oracle Java Tutorials	Official tutorials
JUnit 5 User Guide	Testing framework documentation
Checkstyle Documentation	Code style checker
IntelliJ IDEA Documentation	IDE reference
Pro Git Book	Free online Git book
GitHub Documentation	Version control platform

Style Guides

Guide	Description
Google Java Style Guide	Industry-standard style guide
Oracle Code Conventions	Original Sun/Oracle conventions

Online Resources

Resource	Description
Baeldung	Practical Java tutorials
Martin Fowler's Blog	Software architecture and design
The Practical Test Pyramid	Testing strategies

Future References

The following references will be added as course materials expand:

Design Patterns:

- Gamma, E., Helm, R., Johnson, R., & Vlissides, J. (1994). *Design Patterns: Elements of Reusable Object-Oriented Software*. Addison-Wesley.
- Freeman, E., & Robson, E. (2020). *Head First Design Patterns* (2nd ed.). O'Reilly.

Modern Java:

- [Oracle JDK: Sealed Classes](#)
 - [Oracle JDK: Records](#)
 - [Oracle JDK: Pattern Matching](#)
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