

## Appendix A: Code References and Sources

### Design Patterns & Architecture

1. Strategy Pattern (SimilarityMeasure interface and implementations)
  - "Head First Design Patterns" by Freeman et al., Chapter 1
  - <https://refactoring.guru/design-patterns/strategy>
  - Implemented in: SimilarityMeasure.java, CosineSimilarity.java, ManhattanDistanceSimilarity.java
2. Output Strategy Pattern (OutputStrategy interface)
  - <https://www.baeldung.com/java-strategy-pattern>
  - Implemented in: OutputStrategy.java, JsonOutputStrategy.java, FileAndConsoleOutput.java

### Concurrent Programming

3. Virtual Threads & Concurrent Processing
  - Java 21 Documentation: <https://docs.oracle.com/en/java/javase/21/core/virtual-threads.html>
  - Implemented in: FileParser.java (loadEmbeddingsFile method)
4. ConcurrentHashMap Usage
  - Java Documentation: <https://docs.oracle.com/en/java/javase/21/docs/api/java.base/java/util/concurrent/ConcurrentHashMap.html>
  - "Java Concurrency in Practice" by Brian Goetz, Chapter 5
  - Implemented in: FileParser.java (embeddings field)

### Algorithms & Data Structures

5. Word Vector Similarity Measures
  - Cosine Similarity: [https://en.wikipedia.org/wiki/Cosine\\_similarity](https://en.wikipedia.org/wiki/Cosine_similarity)
  - Manhattan Distance: [https://en.wikipedia.org/wiki/Taxicab\\_geometry](https://en.wikipedia.org/wiki/Taxicab_geometry)
  - Euclidean Distance: [https://en.wikipedia.org/wiki/Euclidean\\_distance](https://en.wikipedia.org/wiki/Euclidean_distance)
  - Implemented in: CosineSimilarity.java, ManhattanDistanceSimilarity.java, EuclideanDistanceSimilarity.java
6. Word Embeddings Processing
  - GloVe Paper: <https://nlp.stanford.edu/pubs/glove.pdf>
  - Implemented in: TextSimplifier.java (findClosestWord method)

### File Processing & I/O

7. Java NIO File Operations

- Java NIO Documentation: <https://docs.oracle.com/javase/tutorial/essential/io/fileio.html>
- Implemented in: FileParser.java (loadEmbeddingsFile, loadGoogleWordsFile methods)

## 8. JSON Output Generation

- JSON Format Specification: <https://www.json.org/json-en.html>
- Implemented in: JsonOutputStrategy.java

## User Interface

### 9. Menu System

- "Clean Code" by Robert Martin, Chapter 14: Successive Refinement
- Implemented in: Menu.java

## Error Handling & Utilities

### 10. Exception Handling

- Java Exception Handling Best Practices: [https://docs.oracle.com/cd/E13214\\_01/wli/docs92/bpguide/bpguideException.html](https://docs.oracle.com/cd/E13214_01/wli/docs92/bpguide/bpguideException.html)
- Implemented throughout the codebase, especially in FileParser.java and TextSimplifier.java

### 11. Message Utilities

- Java String Formatting: <https://docs.oracle.com/en/java/javase/21/docs/api/java.base/java/util/Formatter.html>
- Implemented in: MessageUtil.java

## Additional Resources

### 12. Project Structure & Build

- JAR File Specification: <https://docs.oracle.com/javase/tutorial/deployment/jar/index.html>

### 13. Documentation

- JavaDoc Documentation: <https://www.oracle.com/technical-resources/articles/java/javadoc-tool.html>
- UML Class Diagrams: <https://www.uml-diagrams.org/class-diagrams-overview.html>
- Implemented in: All Java files (JavaDoc comments)