Lines of Code Metric

The Lines of Code metric measures the total number of lines within different parts of a codebase. It's a quantitative measure used to express the size of a codebase.

It includes the following metrics:

CLOC (Comment Lines of Code): The number of lines of code which are comments. Used to assess documentation quality within the code.

JLOC (Java Lines of Code): Specific to Java, this metric counts the lines of Java code.

LOC (Lines of Code): The total number of lines in a code segment, including comments and whitespace.

NCLOC (Non-Comment Lines of Code): The number of lines of actual code, excluding comments and blank lines.

RLOC (Relative Lines of Code): Indicates the proportion of the total lines of code that are actual, non-comment code.

A pie chart with different colors

Description automatically generatedAfter running the plugin on our codebase and looking specifically at the Non-Comment Lines of Code (NCLOC) metric by package, we can visualize the data with the following pie chart:

Upon inspecting the pie chart, we can observe that **net.sf.freecol.common.model** has a larger segment, suggesting that it contains more lines of code compared to other packages. This could potentially be a trouble spot. Packages with large amounts of code can be harder to maintain and understand and be more prone to bugs. It relates to code smells like Long Methods and Long Classes.