

# The (Non-Exhaustive) Java Style Guide

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This document gives an overview of the most common conventions for good Java style. This style guide should help you to increase the readability and understandability of your program.

**Please note:** This list of conventions is **not** complete. In doubt, reach the [Google Java Style Guide](#) for more details.

## Naming

- constants in all uppercase letters, compound words with underscore
- camel-casing for variables and methods
- camel-casing for classes (first letter upper case)
- speaking names
- short names (variables, methods)

## Styling

- use of appropriate loops (for, while, do-while)
- code reuse (abstractions, methods, etc.)
- concise (short) methods, where possible
- scope-reduction of variables (e.g., don not use global variables unless required)

## Organization

- order of program parts (package name, imports, instance variables, constructor(s), methods)
- correct and consistent indentation (do **not** use tabs, use white spaces instead)
- comments where required or helpful to understand code (do **not** use obsolete or irritating comments)
- proper access modifiers (encapsulation), e.g. keep instance variables private
- exceptions for error handling

## Additional Recommendations

- braces for all blocks (i.e., also for blocks with a single statement)
- Javadoc compatible comments