Object-Oriented Design and Programming

Style Guide

Based on UML OOD “Best Practices”

1. Single Identity Objects Only – Capitalize 1st char of object name
2. Class names are **U**pperCamelCasse, method names are **l**owerCamelCase
3. Constant names are all UPPER\_CASE, words separated by single underscore
4. All data is always kept private
5. Create ALL combinations of constructors (even if you think you won’t use them)
6. All behaviors (methods, functions) are public
7. Create public setters and getters for all private data
8. Put data at the top, methods at the end of the class implementation
9. Use a Driver (Main) class object

Other Style Guides of Interest

**Google Checkstyle**

https://checkstyle.sourceforge.io/index.html

You can add a plug-in for Eclipse. Go to <https://checkstyle.org/eclipse-cs/#!/> (drag to workspace in Eclipse) Turn on for the project and see all the errors with your style.

**Google Java Style Guide**

https://google.github.io/styleguide/javaguide.html

Remember: A Pie

**A**bstraction

**P**olymorphism

**I**nheritance

Encapsulation

This is the design goal characteristics, but style means a lot too. Javadoc comments and coding style are important to most employers.