| Coding Convention | Directives | Samples |
| --- | --- | --- |
| File Names | Files suffixes include .class,.java,. map,. cards , .xml, .md,yml, .project,.classpath ,.gitignore  Frequently used file names include Command,Model,VIew | CommandController.java  PhaseView.java  EditMapCommand.java  GameModel.java |
| [indentation](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-136091.html#262) | Use Eclipse or IntelliJ IDEA Formatter for Indentations. | for (CommandType commandType : values()) {  if (commandType.name.equals(name)) {  return commandType;  }  } |
| [Comments](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-141999.html#385) | Eliminate extra comments that are descripting the code and only add code when there is the need to single out a specific necessity. | // sort by the first column  tt.setSort(0); |
| [Declarations](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-141270.html#2991) | initialize local variables where they're declared.  Put declarations only at the beginning of blocks  Avoid local declarations that hide declarations at higher levels | private String format(String[] columnNames, Object[][] data) {  TextTable tt = new TextTable(columnNames, data);  tt.setAddRowNumbering(false);  // sort by the first column  tt.setSort(0);  return getTTString(tt, 0);  } |
| [Statements](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-142311.html#430) | Each line should contain at most one statement.  A return statement with a value should not use parentheses unless they make the return value more obvious  if statements always use braces, {} | argv++; // Correct  argc--; // Correct  argv++; argc--; // AVOID!  return (size ? size : defaultSize);  if (condition) //AVOID! THIS OMITS THE BRACES {}!  statement; |
| [White Space](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-141388.html#475) | Use Eclipse or IntelliJ IDEA Formatter to put a limit for the white blank lines and blank spaces. | ArrayList<String> columns = new ArrayList<>();  columns.add("Country");  if (type == FormatType.Detail) {  columns.add("Armies");  columns.add("Owner");  } |
| [Naming Conventions](https://www.oracle.com/technetwork/java/javase/documentation/codeconventions-135099.html#367) | Packages:  The prefix of a unique package name is always written in all-lowercase ASCII letters and should be one of the top-level domain names, currently com, edu, gov, mil, net, org, or one of the English two-letter codes identifying countries as specified in ISO Standard 3166, 1981. | ca.concordia.encs.conquerdia.controller.command |
| Classes:  Class names should be nouns, in mixed case with the first letter of each internal word capitalized. | class AbstractCommand  class EditCountryCommand |
| Interfaces  Interface names should be capitalized like class names. | interface Command |
| Methods  Methods should be verbs, in mixed case with the first letter lowercase, with the first letter of each internal word capitalized. | protected String getCommandHelpMessage() {  return COMMAND\_HELP\_MSG;  } |
| Variables  Except for variables, all instance, class, and class constants are in mixed case with a lowercase first letter.  Variable names should be short yet meaningful. | CountryRow countryRow;  String cardType; |
| Constants  The names of variables declared class constants and of ANSI constants should be all uppercase with words separated by underscores ("\_"). | EDIT\_CONTINENT  POPULATE\_COUNTRIES  COMMAND\_HELP\_MSG |