

Sprite Editor Code Standards

By Allen Shumway, Michael Sullivan, Soli Yan, Emile Goulard, Stefan Mada

Date: 11/4/2022

Format Standards:

- Classes and namespaces are named with Pascal Case i.e. `ThisIsMyClassName` or `ThisIsTheNameSpaceWeWant`
- Methods will be named with camel case format like: `methodName`
- Consistently used "StudlyCaps" aka `camelCase` to indicate separations within a word rather than using `snake_case` or `kebab-case`. The only exception to this rule being C or C++ `MACRO_DEFINITIONS` and global constants which should always be uppercase with underlines separating the words as shown above.
- Opening brackets for classes, methods, loops, if / else statements are present on their own line, unless the loop or if check is contained within one line (including nested statements), in which case there are no brackets.
- Indentation will be four spaces (one tab) and whitespace standards are currently subject to code review by the team.
- Space between methods will be two lines apart. Subject to code review by the team.

Files:

- Files should be the same name as the class name.
- 1) Header Files (`.h`)
 - Should always **start with a header guard** (`#ifndef HEADER_FILENAME_H`) below the comment block.
 - Should only `#include "other_header_files.h"`
 - And **should contain** `#include <QTypes>` or `<directives>`
 - 2) Source Code Files (`.cpp`)
 - **Should only** `#include "other_header_files.h"`
 - **Should not** `#include "any_source_file.cpp"` or `<QType>`

Comments:

- Files: Comment block at the top with the following topics in this order...
 - File name, author, assignment name, group name, date of project submission, course name, copyright, honor pledge, summary of file.
- Methods: Comment block above that explains the following topics in this order...
 - Brief summary, parameter 1, parameter 2, etc parameters, return, thrown exceptions.
 - Note: This is the same notation that's autogenerated by QT
- Code: Every method should have at-least some in-text comments, no comments are a red flag. (exceptions are made for particularly small/short methods)

Subjective/Miscellaneous:

- `const` all variables by default, unless not possible
- `const` all member functions by default, unless not possible
- Objects (exclude primitives) are passed `const &reference` by default, unless not possible