A7 - Coding Style

Our coding style for our Pixel Editor is simple, and easy to administer throughout the code for consistency. Things such as duplicate code, good naming conventions to describe methods and variables, and comments for complex code are consistently reworked as each developer codes their specific section.

Identifier Coding Styles

Variables and Class Names
- <u>Classes</u> are in pascal case: LikeThis
- <u>Variables and methods</u> are in camel case: likeThis
    - <u>Widgets</u> are named with a 2-3 letter abbreviation followed by a description: btnBrush
- <u>Constants</u> are in all-caps with underscores between words: LIKE_THIS

Indenting
- Indents are 4 spaces wide.
- Constructors and methods are not indented.
- Code within constructors or methods is indented by one tab.
- A function with more than 3 parameters is split onto multiple lines.

Whitespace
- Space between code and variables within methods/constructors.
- One line of whitespace to differentiate between code blocks.
- One space surrounding operators like + or =. Example: int i = a + b;

Comment Requirements
- Single-line comments are specifically for complex code that cannot be understood solely by reading variable names and the code itself.
    - There should be 1 space after //, like this: // Example comment
    - Single-line comments with /// define sections of the code file (e.g. "File methods"). They are between methods with 1 line of whitespace above and below.
    - All single-line comments are above a line of code (not below or to the side).
    - Single-line comments do not exceed 50 characters. If they are longer, they are multiple lines (with //).
- Multi-line comments (with /** */) are above functions and describe what the function does, as well as describe the parameters and return value, with @brief, @param, and @return
    - Exceptions: Default constructors and main.cpp methods do not need multi-line comments.
- All comments are in source (.cpp) files. Header (.h) files do not have any comments.

Source Files
animationwindow.cpp/.h - Raynard Christian
drawingwindow.cpp/.h - Gaby Torres
frames.cpp/.h - Gabby Culley / Anna Timofeyenko
mainwindow.cpp/.h - Raynard Christian, Gaby Torres, Gabby Culley, Anna Timofeyenko