

[WORKIN' TITLE] Documentation Standards

This document is intended to give standards on how all documentation on code should be done. This first page contains a table of contents to give you quick access to how a certain piece of documentation should be done.

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Most of this is just the basic guidelines from ACIT-1515 with Rob. This document is mainly for review and reference.

General Formatting

Title

Begin each file with its name, a short description of its purpose and the author's name.

```
1  # Examples.py
2  # This file is to create a documentation example.
3  # Author: Ty, [List any other contributors]
```

Imports

After the document title, import any libraries or files required.

```
5  import pygame
6  import playerController
7  import WHATEVER
```

Constants / Global Variables / Variable Format

Constants and global variables should be placed at the top of the document, following Imports. For variables, follow camelCase format.

```
9  mazeList = []
10 charList = []
11 descriptiveName = 201
```

File that will be imported

Files intended to be imported later should have all testing or instructions on how to use it inside a `__name__ == "__main__"` statement. Place this at the end of the file.

```
13 ∨ if __name__ == "__main__":
14     functionTest(1,2,3)
15     print("To use this file's functions, import it first.")
```

Example

```
1  # Examples.py
2  # This file is to create a documentation example.
3  # Author: Ty, [List any other contributors]
4
5  import pygame
6  import playerController
7  import WHATEVER
8
9  mazeList = []
10 charList = []
11 descriptiveName = 201
12
13 ∨ if __name__ == "__main__":
14     functionTest(1,2,3)
15     print("To use this file's functions, import it first.")
```

Classes

Follow documentation standards set by the professor here:

<https://learn.bcit.ca/d2l/le/content/706712/viewContent/5666159/View>

This follows the Sphinx Docstring format, which can be read about here:

<https://sphinx-rtd-tutorial.readthedocs.io/en/latest/docstrings.html>

Functions

Functions should be used wherever possible to reduce repeated code. If the same set of code is used 3 or more times, it's recommended to turn it into a function.

Inputs / Outputs

If a function takes inputs or has an output, the variable names should be tied to the type they require.

If the function has any outputs, state what type the output will be.

```
def addNumbers(num1: int, num2: int) -> int:
```

Input Type

Output Type

Function Description

Each function should begin with a minimum one-line docstring explaining its purpose.

```
def addNumbers(num1: int, num2: int) -> int:
    """Adds two numbers together, returns the sum"""
    sum = num1 + num2
    return sum
```

General Comments

Comments should be used often to explain your train of thought or leave notes for others. They're also great for writing quick notes on your frustration for others to enjoy later.

This lets us know who wrote what, and when.

Anytime you leave a comment, sign it at the end as well as date it.

```
#I have no idea why this isn't working - Ty 25/01/21
```

For longer comments, use a multi-line string

"" ""

I DON'T KNOW WHY THIS ISN'T WORKING
AND I HAVE GIVEN UP
BEST OF LUCK
- TY 25/01/21

"" ""