

Python Naming Conventions

1. General

- Avoid using names that are too general or too wordy. Strike a good balance between the two.
- Bad: `data_structure`, `my_list`, `info_map`,
`dictionary_for_the_purpose_of_storing_data_representing_word_definitions`
- Good: `user_profile`, `menu_options`, `word_definitions`
- Don't be a jackass and name things "O", "I", or "l"
- When using CamelCase names, capitalize all letters of an abbreviation (e.g. `HTTPServer`)

2. Packages

- Package names should be all lower case
- When multiple words are needed, an underscore should separate them
- It is usually preferable to stick to 1 word names

3. Modules

- Module names should be all lower case
- When multiple words are needed, an underscore should separate them
- It is usually preferable to stick to 1 word names

4. Classes

- Class names should follow the UpperCaseCamelCase convention
- Python's built-in classes, however are typically lowercase words
- Exception classes should end in "Error"

5. Global (module-level) Variables

- Global variables should be all lowercase
- Words in a global variable name should be separated by an underscore

- Instance variable names should be all lower case
- Words in an instance variable name should be separated by an underscore
- Non-public instance variables should begin with a single underscore
- If an instance name needs to be mangled, two underscores may begin its name

7. Methods

- Method names should be all lower case
- Words in a method name should be separated by an underscore
- Non-public method should begin with a single underscore
- If a method name needs to be mangled, two underscores may begin its name

8. Method Arguments

- Instance methods should have their first argument named 'self'.
- Class methods should have their first argument named 'cls'

9. Functions

- Function names should be all lower case
- Words in a function name should be separated by an underscore

10. Constants

- Constant names must be fully capitalized
- Words in a constant name should be separated by an underscore