**Python**

**Standard Coding**

**Naming Styles**

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| **Type** | Naming Convention | Examples |
| Function | Use a lowercase word or words. Separate words by underscores to improve readability. | function, my\_function |
| Variable | Use a lowercase single letter, word, or words. Separate words with underscores to improve readability. | x, var, my\_variable |
| Class | Start each word with a capital letter. Do not separate words with underscores. This style is called [camel case or pascal case](https://en.wikipedia.org/wiki/Camel_case). | Model, MyClass |
| Method | Use a lowercase word or words. Separate words with underscores to improve readability. | class\_method, method |
| Constant | Use an uppercase single letter, word, or words. Separate words with underscores to improve readability. | CONSTANT, MY\_CONSTANT, MY\_LONG\_CONSTANT |
| Module | Use a short, lowercase word or words. Separate words with underscores to improve readability. | module.py, my\_module.py |
| Package | Use a short, lowercase word or words. Do not separate words with underscores. | package, mypackage |

**How to Choose Names**

**Choosing names for your variables, functions, classes, and so forth can be challenging. You should put a fair amount of thought into your naming choices when writing code as it will make your code more readable. The best way to name your objects in Python is to use descriptive names to make it clear what the object represents.**

**When naming variables, you may be tempted to choose simple, single-letter lowercase names, like x. But, unless you’re using x as the argument of a mathematical function, it’s not clear what x represents. Imagine you are storing a person’s name as a string, and you want to use string slicing to format their name differently. You could end up with something like this:**

>>> # Not recommended

>>> x = 'John Smith'

>>> y, z = x.split()

>>> print(z, y, sep=', ')

'Smith, John'

>>> # Recommended

>>> name = 'John Smith'

>>> first\_name, last\_name = name.split()

>>> print(last\_name, first\_name, sep=', ')

'Smith, John'