Coding Standard

**Coding Standards: Python**

**Naming Conventions**

ASCII Compatibility

Identifiers used in the standard library is ASCII compatible.

**Package and Module Names**

We are using all lowercase names for module names. Underscores can be used in the module name if necessary. Python packages will also have short, all lowercase names but without underscores.

**Class Names**

We will use the Pascal Casing convention for naming classes.

**Type Variable Names**

Names of type variables will normally use CapWords preferring short names.

**Exception Names**

We will use Pascal Casing for defining an Exception class.

**Global Variable Names**

Modules that are designed for use via from M import \* will use the all mechanism to prevent exporting globals, or using the older convention of prefixing such globals with an underscore.

**Function and Variable Names**

Function names will follow the Pascal Casing.

Variable names follow the Snake Casing to improve readability.

**Function and Method Arguments**

We will use self for the first argument to instance methods. cls for the first argument to class methods.

**Method Names and Instance Variables**

We will use the function naming rules: lowercase with words separated by underscores as necessary to improve readability.

Also one leading underscore only for non-public methods and instance variables.

To avoid name clashes with subclasses, we will use two leading underscores to invoke Python's name mangling rules.

**Constants**

Constants will be defined on a module level and will be written in all capital letters with underscores separating words. Examples include MAX\_ITEM and TOTAL.

**Indentation**

We will use 4 spaces per indentation level.

**Pet Peeves**

For avoiding extraneous whitespace in the following situations:

* Immediately inside parentheses, brackets or braces.
* Between a trailing comma and a following close parenthesis.
* Immediately before a comma, semicolon, or colon

**Block Comments**

Each line of a block comment starts with a **#** and a single space (unless it is indented text inside the comment).

Paragraphs inside a block comment are separated by a line containing a single #.

## Example of Case Type

