29. Python Runtime Services

The modules described in this chapter provide a wide range of services related to the Python interpreter and its interaction with its environment. Here's an overview:

- 29.1. sys System-specific parameters and functions
- 29.2. sysconfig Provide access to Python's configuration information
 - 29.2.1. Configuration variables
 - 29.2.2. Installation paths
 - 29.2.3. Other functions
 - 29.2.4. Using sysconfig as a script
- 29.3. builtins Built-in objects
- 29.4. __main__ Top-level script environment
- 29.5. warnings Warning control
 - 29.5.1. Warning Categories
 - 29.5.2. The Warnings Filter
 - 29.5.2.1. Default Warning Filters
 - 29.5.3. Temporarily Suppressing Warnings
 - 29.5.4. Testing Warnings
 - 29.5.5. Updating Code For New Versions of Python
 - 29.5.6. Available Functions
 - 29.5.7. Available Context Managers
- 29.6. contextlib Utilities for with-statement contexts
 - 29.6.1. Utilities
 - 29.6.2. Examples and Recipes
 - 29.6.2.1. Supporting a variable number of context managers
 - 29.6.2.2. Simplifying support for single optional context managers
 - 29.6.2.3. Catching exceptions from __enter__ methods
 - 29.6.2.4. Cleaning up in an __enter__ implementation
 - 29.6.2.5. Replacing any use of try-finally and flag variables
 - 29.6.2.6. Using a context manager as a function decorator
 - 29.6.3. Single use, reusable and reentrant context managers
 - 29.6.3.1. Reentrant context managers
 - 29.6.3.2. Reusable context managers
- 29.7. abc Abstract Base Classes
- 29.8. atexit Exit handlers
 - 29.8.1. atexit Example
- 29.9. traceback Print or retrieve a stack traceback
 - 29.9.1. TracebackException Objects
 - 29.9.2. StackSummary Objects
 - 29.9.3. FrameSummary Objects
 - 29.9.4. Traceback Examples
- 29.10. future Future statement definitions
- 29.11. gc Garbage Collector interface

- 29.12. inspect Inspect live objects
 - 29.12.1. Types and members
 - 29.12.2. Retrieving source code
 - 29.12.3. Introspecting callables with the Signature object
 - 29.12.4. Classes and functions
 - 29.12.5. The interpreter stack
 - 29.12.6. Fetching attributes statically
 - 29.12.7. Current State of Generators and Coroutines
 - 29.12.8. Code Objects Bit Flags
 - 29.12.9. Command Line Interface
- 29.13. site Site-specific configuration hook
 - 29.13.1. Readline configuration
 - 29.13.2. Module contents
- 29.14. fpect1 Floating point exception control
 - 29.14.1. Example
 - 29.14.2. Limitations and other considerations