

Advanced Python Cheat Sheet

Advanced Syntax

List Comprehension `[x**2 for x in range(10) if x % 2 == 0]`

Lambda Functions `lambda x, y: x + y`

Decorators `@my_decorator`

Advanced Data Structures

Named Tuple `from collections import namedtuple`

Default Dict `from collections import defaultdict`

Deque `from collections import deque`

Concurrency

Threading `import threading`

Multiprocessing `import multiprocessing`

Asyncio `import asyncio`

File Handling

Context Manager `with open('file.txt', 'r') as file:`

JSON Handling `import json`

Error Handling

Custom Exceptions `class MyError(Exception): pass`

Assertions `assert x > 0, "x must be positive"`

Modules and Packages

Importing `import module from module import function`

Pip `pip install package_name`