

Linux Basic Commands Cheat Sheet

Basic Syntax

<code>print('Hello, World!')</code>	- Output to console
<code># This is a comment</code>	- Single-line comment
<code>'''This is a multiline comment'''</code>	- Multiline comment
<code>x = 5</code>	- Variable assignment
<code>if x > 0: print(x)</code>	- Conditional statement

Data Types & Structures

<code>int, float, str, bool</code>	- Basic data types
<code>list = [1, 2, 3]</code>	- List
<code>tuple = (1, 2, 3)</code>	- Tuple
<code>set = {1, 2, 3}</code>	- Set
<code>dict = {'a': 1, 'b': 2}</code>	- Dictionary

Loops & Functions

<code>for i in range(5):</code>	- For loop
<code>while x < 10:</code>	- While loop
<code>def func(): return 'hi'</code>	- Function definition
<code>lambda x: x*2</code>	- Lambda function

File Handling

<code>open('file.txt', 'r')</code>	- Open file for reading
<code>open('file.txt', 'w')</code>	- Open file for writing
<code>file.read()</code>	- Read file content
<code>file.write('data')</code>	- Write to file
<code>file.close()</code>	- Close file

Modules & Libraries

<code>import math</code>	- Import module
<code>from math import sqrt</code>	- Import specific function
<code>pip install package</code>	- Install package

OOP in Python

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<code>class MyClass:</code>	- Define class
<code>def __init__(self):</code>	- Constructor
<code>self.attribute</code>	- Class attribute
<code>object = MyClass()</code>	- Create object

Error Handling

<code>try:</code>	
<code> ...</code>	
<code>except Exception as e:</code>	- Try-except block
<code>finally:</code>	- Execute always
<code>raise ValueError('error')</code>	- Raise exception