



Python Syntax Cheat Sheet

Learn Anywhere, Code Everywhere

Basics & Data Types

Print and Comments:

```
print("Hello, FlowHivee!")
```

```
# This is a comment
```

Variables:

```
x = 10
```

```
name = "FlowHivee"
```

```
is_online = True
```

Data Types:

int, float, str, bool, list, tuple, dict, set

Example:

```
data = [1, 2, 3]
```

```
info = {"name": "FlowHivee", "mode": "Offline"}
```

Operators & Conditionals

Operators:

`+ - * / // % **`

`== != > < >= <=`

`and or not`

Conditionals:

`if x > 0:`

`print("Positive")`

`elif x == 0:`

`print("Zero")`

`else:`

`print("Negative")`

Loops & Functions

For Loop:

```
for i in range(5):  
    print(i)
```

While Loop:

```
count = 0  
  
while count < 5:  
    print(count)  
    count += 1
```

Functions:

```
def greet(name):  
    return f"Hello, {name}"  
  
print(greet("FlowHivee"))
```

Lists, Tuples & Dictionaries

Lists:

```
numbers = [1, 2, 3]
```

```
numbers.append(4)
```

```
numbers.remove(2)
```

Tuples (Immutable):

```
coords = (10, 20)
```

Dictionaries:

```
student = {"name": "Advithya", "score": 98}
```

```
print(student["name"])
```

Looping Through Collections:

```
for key, value in student.items():
```

```
    print(key, value)
```

File Handling & Exceptions

File Handling:

```
with open("data.txt", "w") as f:
```

```
    f.write("FlowHivee Rocks!")
```

```
with open("data.txt", "r") as f:
```

```
    print(f.read())
```

Error Handling:

```
try:
```

```
    x = 5 / 0
```

```
except ZeroDivisionError:
```

```
    print("Cannot divide by zero!")
```

```
finally:
```

```
    print("Execution complete.")
```

FlowHivee Tips & Tricks

Built-in Functions:

`len()`, `type()`, `range()`, `input()`, `str()`, `int()`

Pythonic Practices:

- Use clear variable names.
- Indent with 4 spaces.
- Comment when necessary.
- Write reusable functions.

FlowHivee Reminder:

Keep learning, keep coding, and let curiosity guide you.

FlowHivee - Making Code Flow Anywhere ?