

Python

Table of contents

1	Python	3
1.1	Python	3
1.2	Python	3
2		4
2.1	uv Python	4
2.1.1	Windows	4
2.1.2	macOS	4
2.1.3	Linux	4
2.2	uv	5
2.3	. . . . .	5
2.3.1	uv	5
2.3.2	VS Code	5
3	Python	6
3.1	Hello, World!	6
3.2	. . . . .	6
3.3	. . . . .	7
4		8
4.1	1	8
4.2	2	8
5		10
5.1	. . . . .	10
5.2	. . . . .	10
5.3	. . . . .	10
5.4	. . . . .	10
5.5	. . . . .	11

1 Python

1.1 Python

-
- - AI
-
-
-

1.2 Python

: - & AI - - - -
: - - - -

2

2.1 uv Python

uv -

2.1.1 Windows

```
# uv Python +  
powershell -ExecutionPolicy Bypass -c "irm https://astral.sh/uv/install.ps1 | iex"  
  
# uv Python  
uv python install 3.12
```

2.1.2 macOS

```
# uv  
curl -LsSf https://astral.sh/uv/install.sh | sh  
  
# uv Python  
uv python install 3.12
```

2.1.3 Linux

```
# uv  
curl -LsSf https://astral.sh/uv/install.sh | sh  
  
# uv Python  
uv python install 3.12
```

2.2 uv

: Python + +
10-100 - pip
-
Python
- Python

2.3

2.3.1 uv

```
# uv
curl -Lsf https://astral.sh/uv/install.sh | sh

#
uv init my-project
cd my-project

#
uv add requests pandas
```

2.3.2 VS Code

- Python - Microsoft
- Pylance -
- Python Debugger -

3 Python

3.1 Hello, World!

```
# Python
print("Hello, World!")
print("Python    ")
```

```
Hello, World!
Python
```

```
:
```

```
Hello, World!
Python
```

3.2

```
#
name = " "
age = 25
height = 175.5
is_student = True

print(f" : {name}")
print(f" : {age}")
print(f" : {height}cm")
print(f" : {is_student}")
```

```
:
: 25
: 175.5cm
: True
```

3.3

```
#
greeting = "  "
name = "Python"

#
message = greeting + ", " + name + "!"
print(message)

# f-string
message_f = f"{greeting}, {name}!"
print(message_f)

#
print(name.upper())    #
print(name.lower())    #
print(len(message))    #
```

, Python!

, Python!

PYTHON

python

14

4

4.1 1

```
#  
name = "    "  
age = 0 #  
hobby = "    "  
  
# f-string  
print(f"      {name} ")  
print(f" {age}    {hobby} ")
```

:

25

4.2 2

```
# 2  
a = 10  
b = 3  
  
#  
print(f"{a} + {b} = {a + b}")  
print(f"{a} - {b} = {a - b}")  
print(f"{a} * {b} = {a * b}")  
print(f"{a} / {b} = {a / b}")  
print(f"{a} // {b} = {a // b}") #
```



```
print(f"{a} % {b} = {a % b}")    #  
print(f"{a} ** {b} = {a ** b}")  #
```

5

5.1

- Python - - - -

5.2

- - - -

5.3

- 1.
- 2.
3. f-string
4. Python

5.4

5.5

:

:

|

: