

Introduction to Python



What is a program?

What is a programming language?

How are programs run?

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Interpreted Languages

Run *source code* line-by-line in an *interpreter*.

Need both *source code* and *interpreter* to run.

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Interpreted Languages

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Compiled Languages

Put *source code* through a *compiler* to produce *machine code*.

Need only *machine code* to run.

Developing with Python

Method 1: Command line and text editor

```
python3 myprogram.py
```


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```
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Method 2: Integrated Development Environment (IDE)

IDLE

```
idle3
```

Hello World!

```
print(expression)
```

(we'll come on to what an 'expression' actually is soon...)

```
print("Hello World!")
```

Comments

```
# This is a comment!  
print("Hello World!")  
print("Welcome to my program.") # And another...
```