

Python's Benevolent Dictator For Life

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“Python is an experiment in how much freedom programmers need. Too much freedom and nobody can read another's code; too little and expressiveness is endangered.”

- Guido van Rossum



Scope of Python

- Science
 - Bioinformatics
- System Administration
 - Unix
 - Web logic
 - Web sphere
- Web Application Development
 - CGI
 - Jython – Servlets
- Testing scripts

Math

Rule: If you want Python to answer in floats, you have to talk to it in floats

More operators

divide: /

multiply: *

```
>>> print 3 * 12      36
```

```
>>> print 12 / 3      4
```

```
>>> print 11 / 3      3
```

```
>>> print 12.0 / 3.0  4.0
```

```
>>> print 11.0 / 3.0  3.66
```



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VARIABLES IN PYTHON

List: a sequence of objects

```
>>> Beatles = ["John", "Paul", "George",  
"Ringo"]
```

```
>>> grades = [82, 93, 67, 99, 100]
```

Guess what this will output:

```
>>> type(Beatles)
```

```
>>> type(grades)
```



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TUPLE: DATA TYPE

Statement

Description

if statements

An **if statement** consists of a boolean expression followed by one or more statements.

if...else statements

An **if statement** can be followed by an optional **else statement**, which executes when the boolean expression is FALSE.

nested if statements

You can use one **if** or **else if** statement inside another **if** or **else if** statement(s).