

Introduction to Python

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Introduction to Python

- Interpreted, interactive and object oriented language.
- Clear syntax emphasizes code readability.

```
#!/usr/bin/python2.7  
  
#  
  
import sys  
  
def greet(msg):  
    print msg  
  
if __name__ == "__main__":  
    greet("Hello, world!")  
    sys.exit(0)
```

Introduction to Python

- `#!/usr/bin/python`
`#!/usr/bin/env python`
`#!/usr/bin/python2.7`
- Python shell
- Comments -
`# Python line comments`
`"""`

`Python block comments.`
`"""`

Introduction to Python

- Indentation

```
if name == 'Mango':
```

```
    print "Like it! :)"
```

```
else:
```

```
    print "...:("
```

- Variable/Identifier: name = 'Mango', price = 400.00

- For statement

```
sum = 0
```

```
for x in range(1, 10):
```

```
    sum += x
```

```
print "sum:", sum
```

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- While statement

```
ln = f.readline()
```

```
while (ln):
```

```
    if (ln.startswith(name)):
```

```
        print ln
```

- Function/Method:

```
def greet(msg):
```

```
    print msg
```

```
def add(a, b):
```

```
    return a + b
```

- Python modules

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- Try...except

try:

```
f = open('/tmp/directory', 'r')
```

except IOError, e:

```
print >> sys.stderr, type(e), e
```

```
return None
```

- Strings

```
s = 'Hello, world!'
```

```
print s[:6]
```

```
print s.startswith('Hello')
```

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- Lists

```
l = [ 1, 2, 3, 'Apple', 'Mango' ]
```

```
l.append('Mango')
```

```
l.remove(3)
```

- Dictionary

```
d = { 'fruit': 'Apple', 'price': 99 }
```

- Tuple

```
t = (10, 'Sachin Tendulkar', 99)
```

Python



<== Guido van Rossum

- <http://neopythonic.blogspot.com>
- <http://python.org>
- tutor@python.org
- <http://diveintopython.org>