



FROM ZERO TO HERO  
PYTHON THE HARDWAY

★★★★★  
**PYTHON BASIC  
DATA TYPES**

-R.PROMKAM-

POWERFUL PROGRAMMING LANGUAGE

**EPISODE 02**



# INTEGERS



Shell

```
>>> print(10)
```

```
10
```

```
>>> print(1231231231231231231231231212121212112 + 1)
```

```
1231231231231231231231231212121212113
```

```
>>>
```

# INTEGERS



Shell

```
>>> print(0o10)
```

```
8
```

```
>>> print(0x10)
```

```
16
```

```
>>> print(0b10)
```

```
2
```

```
>>> type(10)
```

```
<class 'int'>
```

```
>>> type(0o10)
```

```
<class 'int'>
```

```
>>> type(0x10)
```

```
<class 'int'>
```

```
>>>
```

Prefix	Interpretation	Base
0b or 0B	Binary	2
0o or 0O	Octal	8
0x or 0X	Hexadecimal	16

# FLOATING POINTS



Shell

```
>>> 4.2
4.2
>>> type(4.2)
<class 'float'>
>>>
```



She

```
>>> 4.
4.0
>>> .2
0.2
>>> .4e7
4000000.0
>>> type(.4e7)
<class 'float'>
>>> 4.2e-2
0.00042
>>>
```

# FLOATING POINTS



Shell

```
>>> 1.79e308
```

```
1.79e308
```

```
>>> 1.8e308
```

```
inf
```

```
>>> 5e-324
```

```
5e-324
```

```
>>> 2e-324
```

```
0.0
```

# COMPLEX NUMBERS



Shell

```
>>> 2+3j
```

```
(2+3j)
```

```
>>> type(2+3j)
```

```
<class 'complex'>
```

```
>>>
```

# STRINGS



Shell

```
>>> print("I am a string.")
I am a string.
>>> type("I am a string.")
<class 'str'>
>>> print('I am too.')
I am too.
>>> type('I am too.')
<class 'str'>
>>> print('')
''
>>> type('')
<class 'str'>
>>>
```

# STRINGS



Shell

```
>>> print('This string contains a single quote (')  
character.')
```

```
SyntaxError: invalid syntax
```

```
>>> print("This string contains a single quote (')  
character.")
```

```
This string contains a single quote (') character.
```

```
>>> print('This string contains a double quote ("  
character.')
```

```
This string contains a double quote (") character.
```

```
>>>
```



