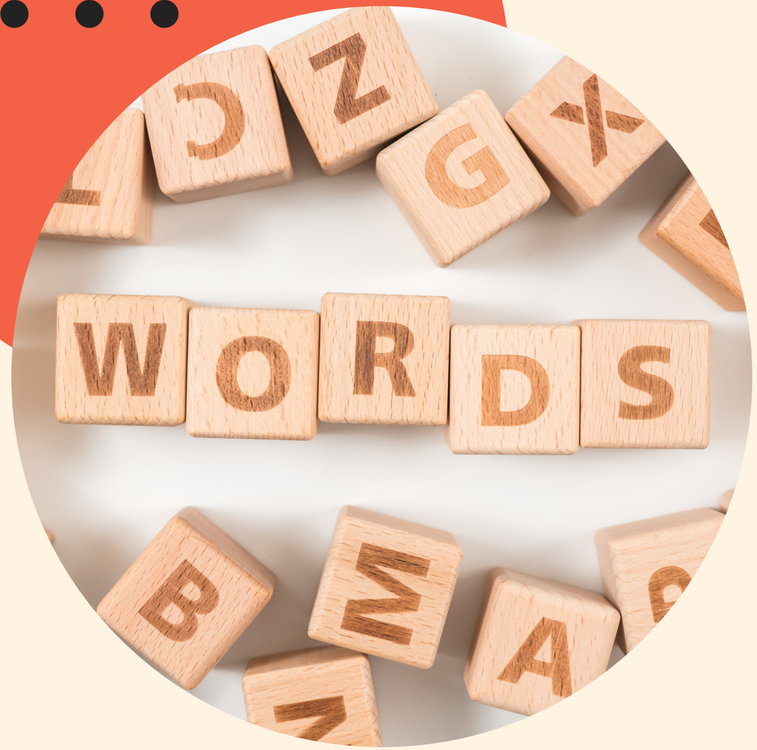
Strings

Strings

Basic Data Types

- Strings
- Integers
- Booleans
- Floats



Strings

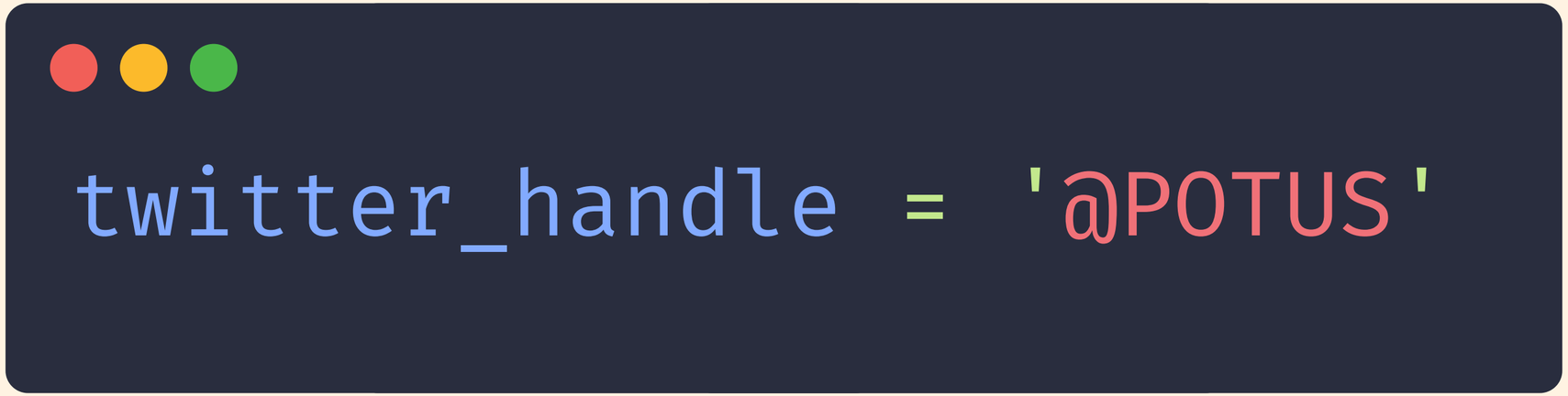
"STRINGS OF CHARACTERS"

Strings are a textual datatype and must be wrapped in quotes


chicken nuggets forever!!

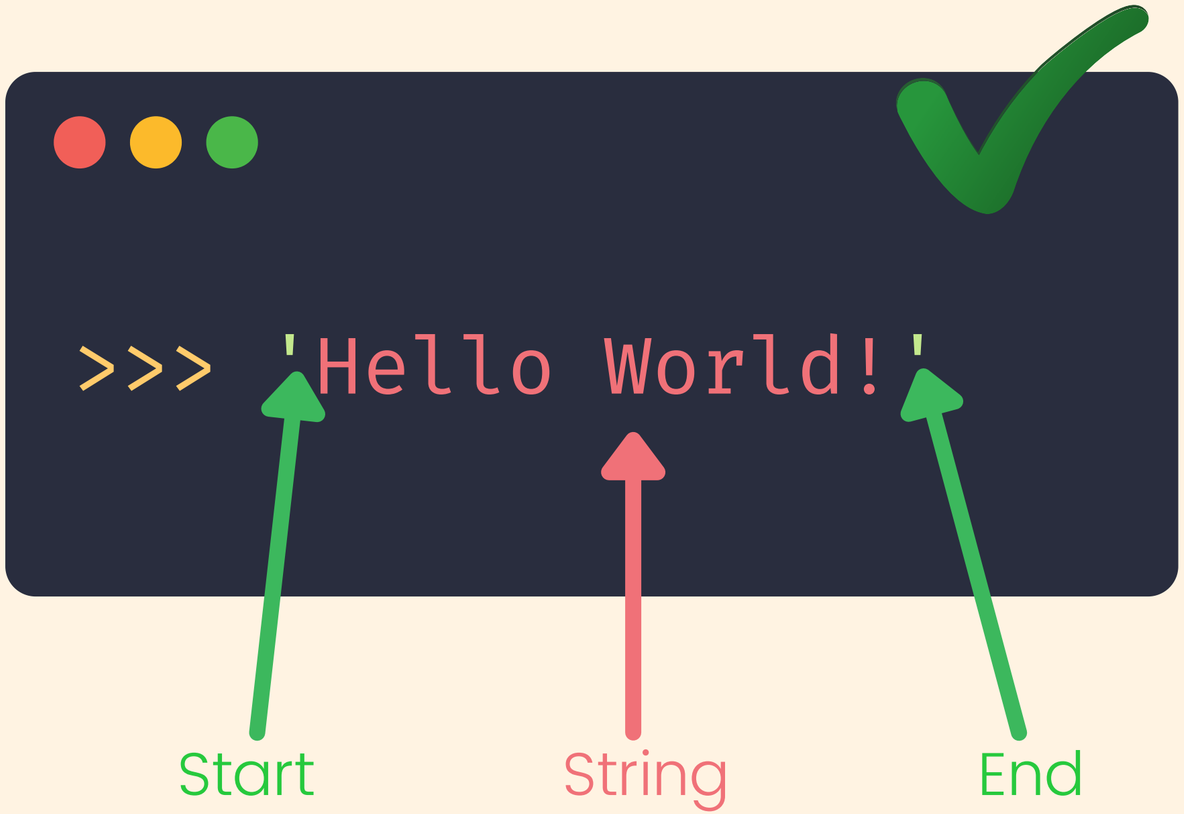

chicken nuggets forever!!

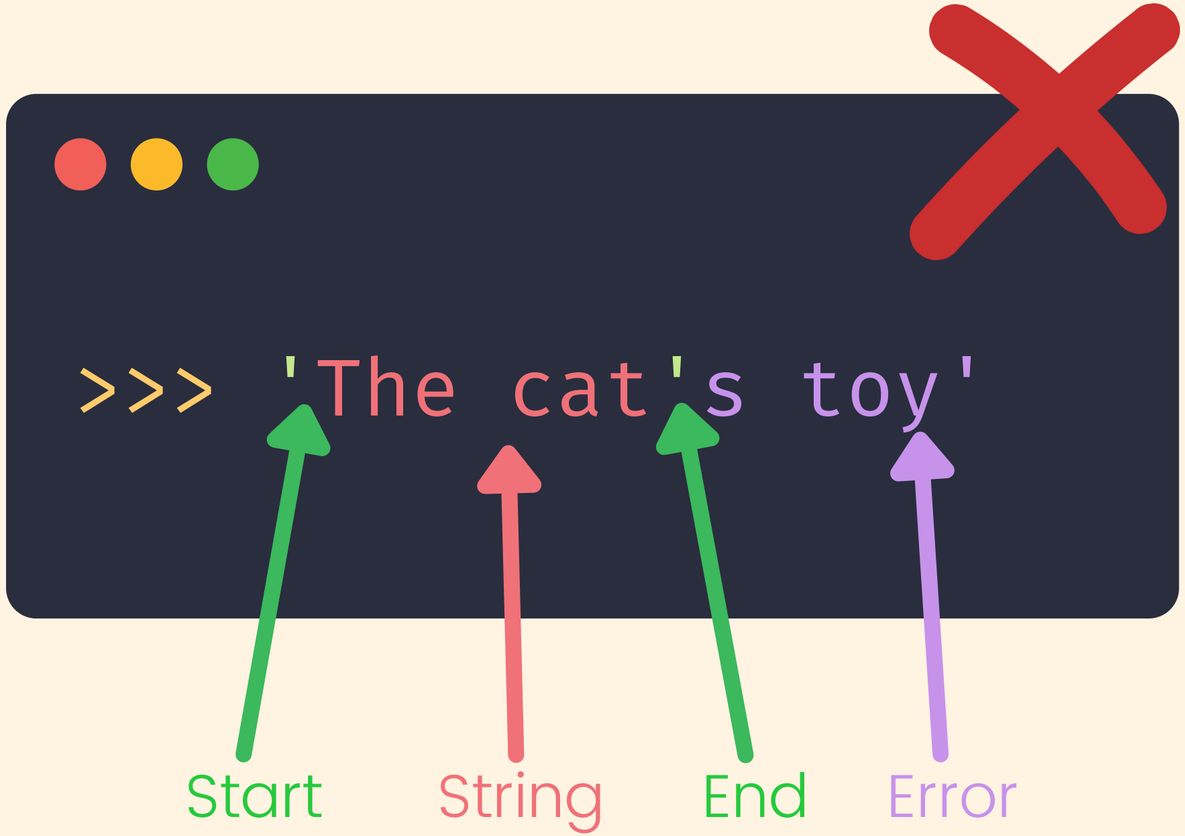

color = "Magenta"


twitter_handle = '@POTUS'

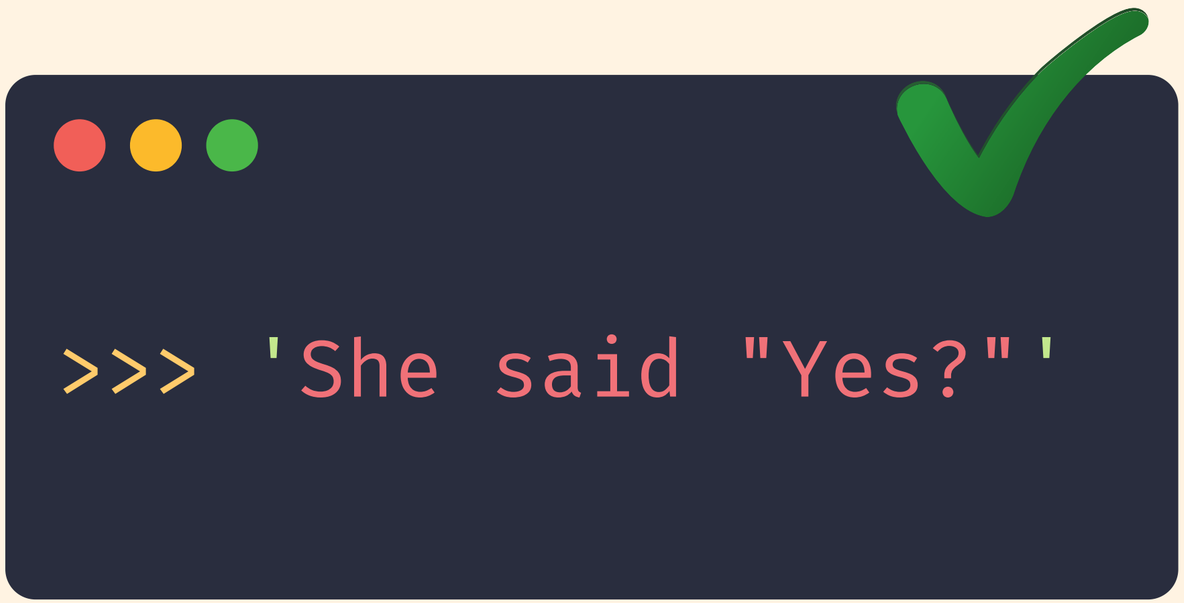

url = "www.reddit.com/r/formula1/"

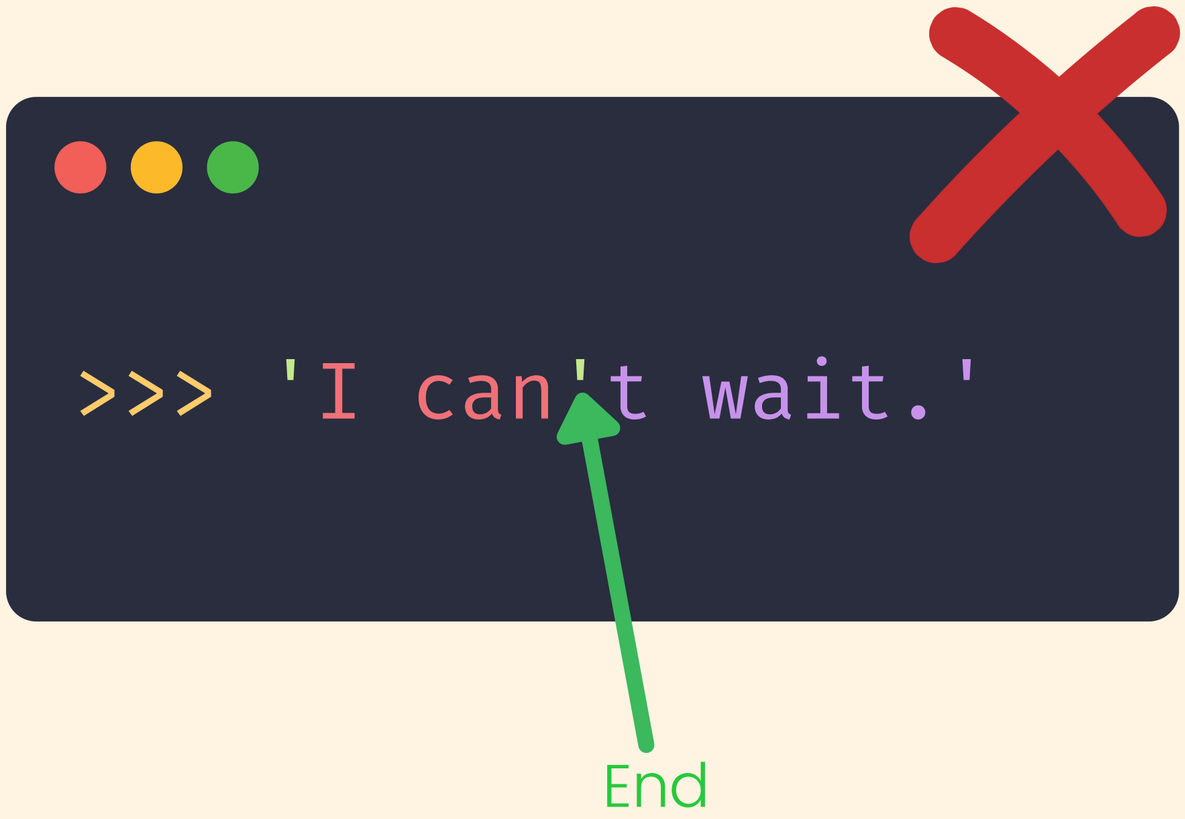
Quotes


>>> 'Hello World!'
Start
String
End

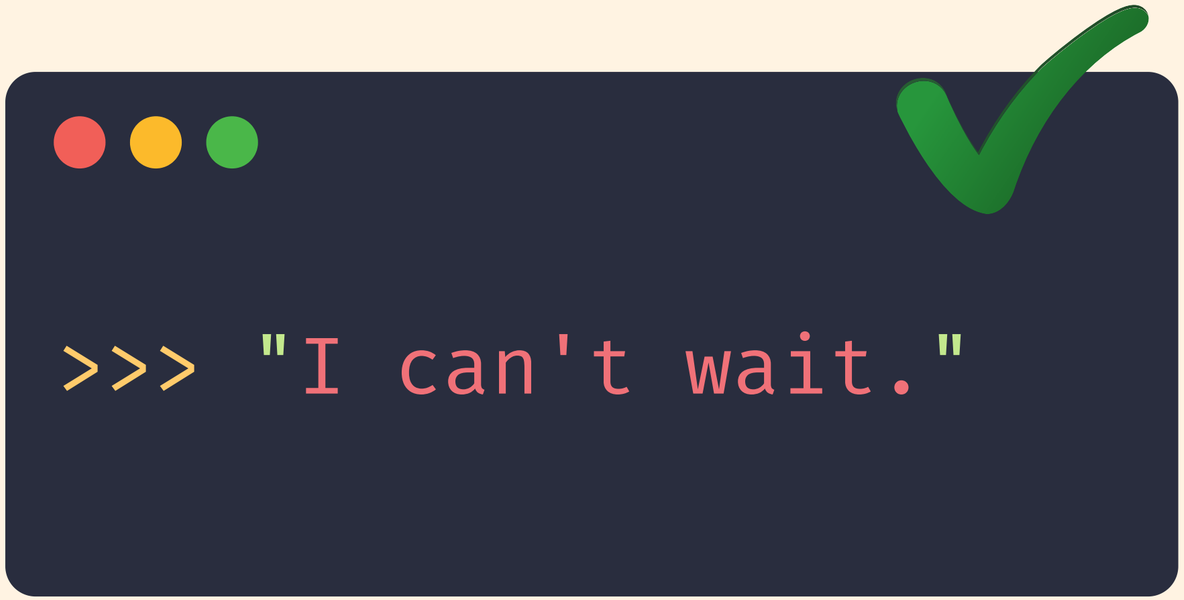

>>> 'The cat's toy'
Start
String
End
Error

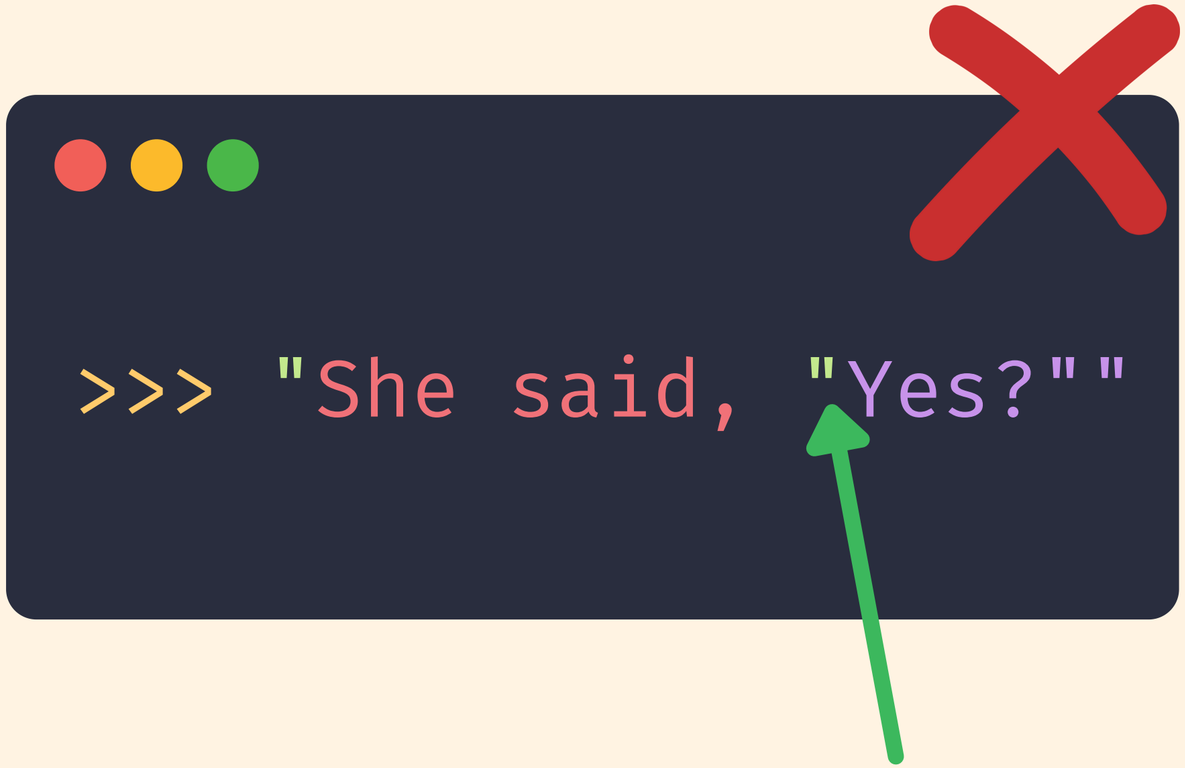
Single Quotes





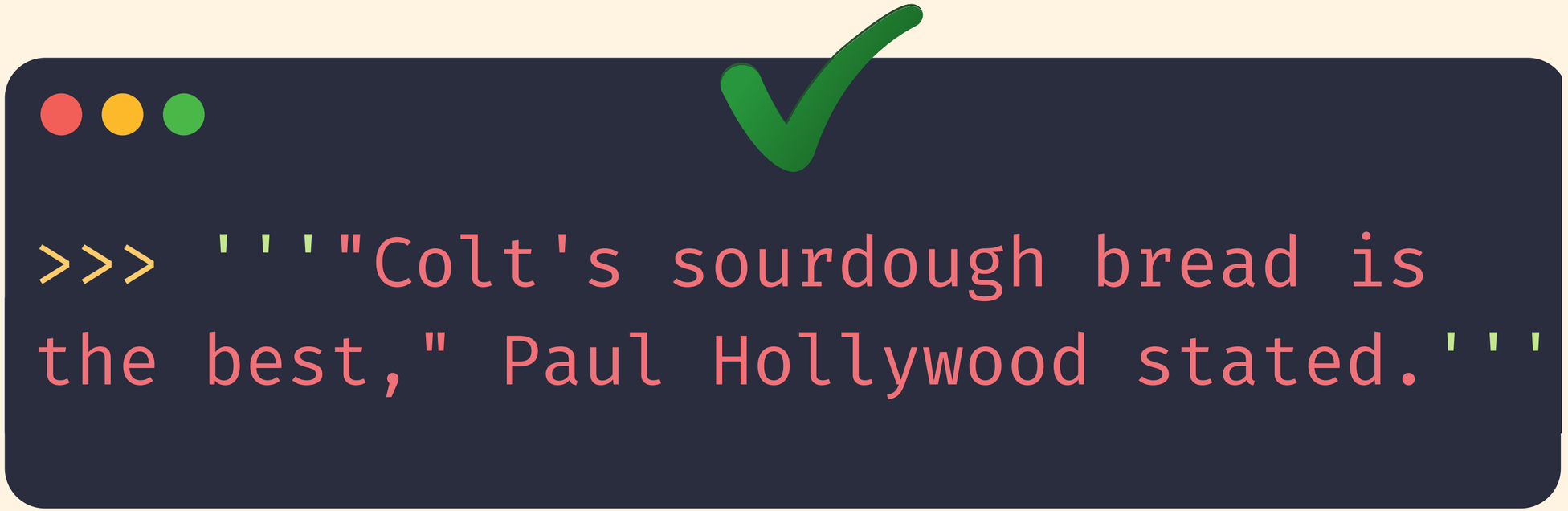
Double Quotes





Triple Quotes

Single Or Double



```
>>> '''"Colt's sourdough bread is
the best," Paul Hollywood stated.'''
```

Print

The **print()** function prints out any values we pass to it to "standard output". It does not return anything.

Escape Characters

Newline - \n

Double Quote - \"

Single Quote - \'

Tab - \t

Backslash - \\

Concatenation

We can concatenate strings together by using the plus sign. No space will be added between them.

```
>>> 'pan' + 'cake'
'pancake'
```

Multiplication

We can also multiply a string by a number,
which will repeat that string.

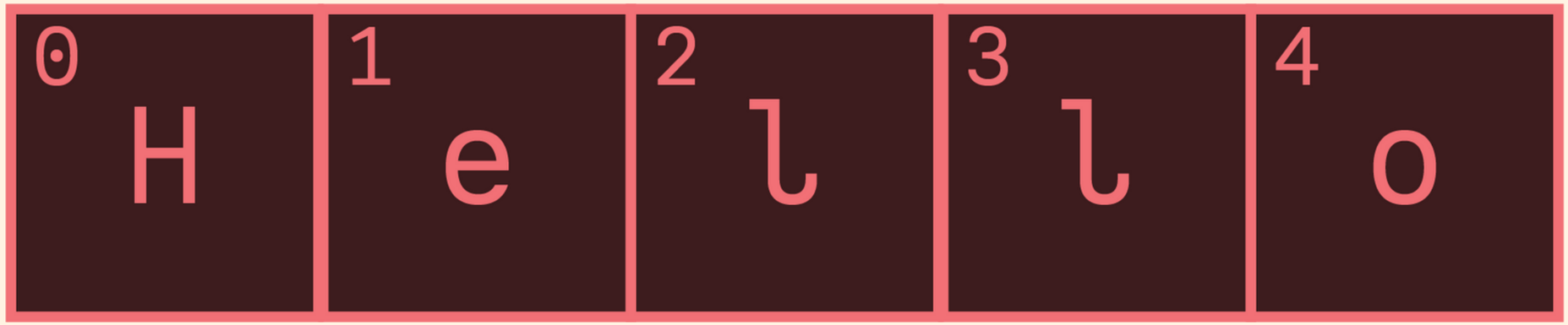
```
>>> 'ha'* 4
'hahahaha'
```

None

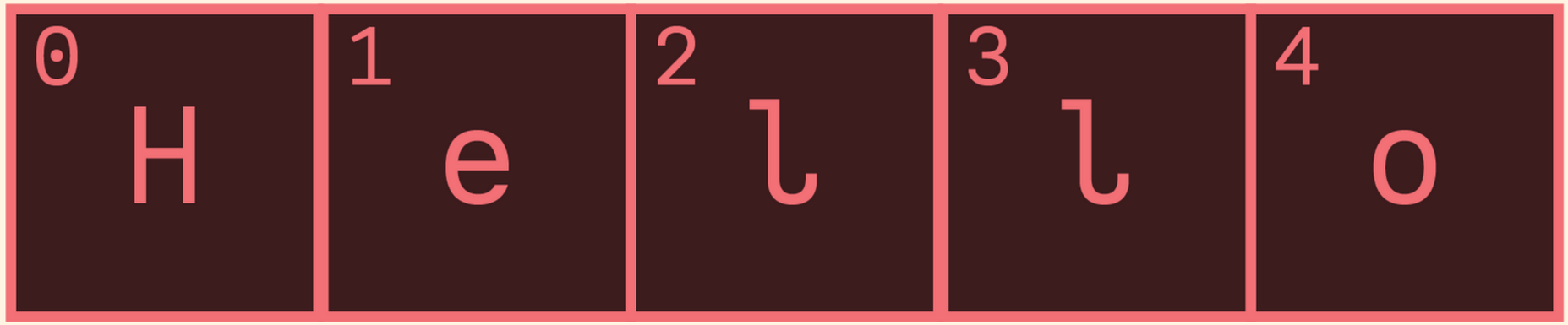
None is a special value in Python that denotes the **lack of value.** It is not the same as zero or an empty string (those are still values).

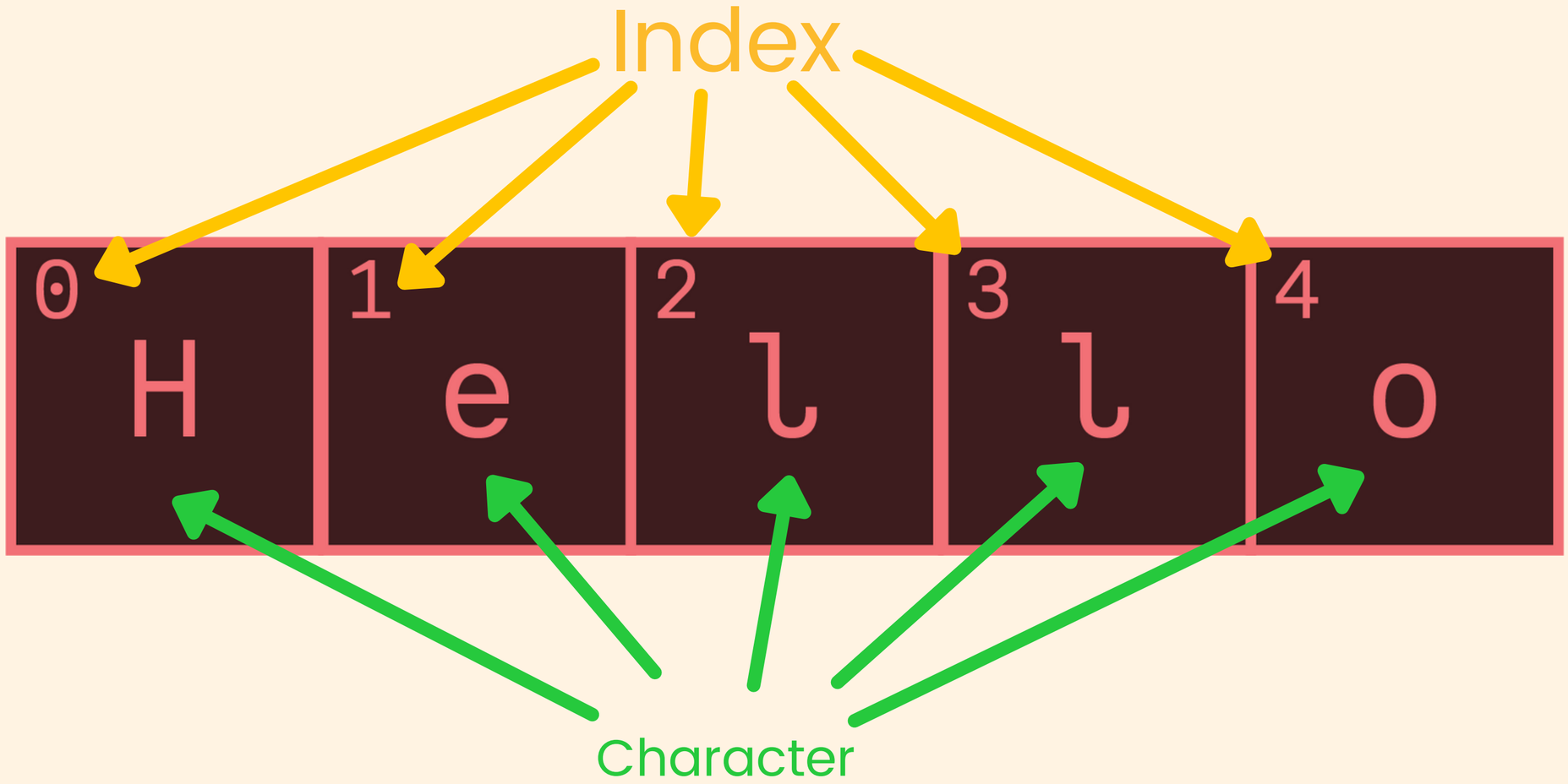
```
>>> user = None
```

Strings Are Ordered



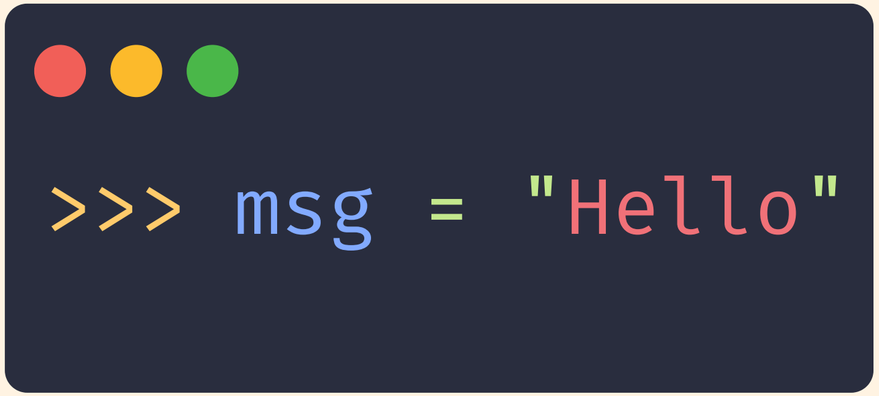
Strings Are **Indexed**




Index
0
H
1
e
2
l
3
l
4
o
Character

What is a name?

What is a name?
That which we
call a string
by any other name
would still say the same thing.



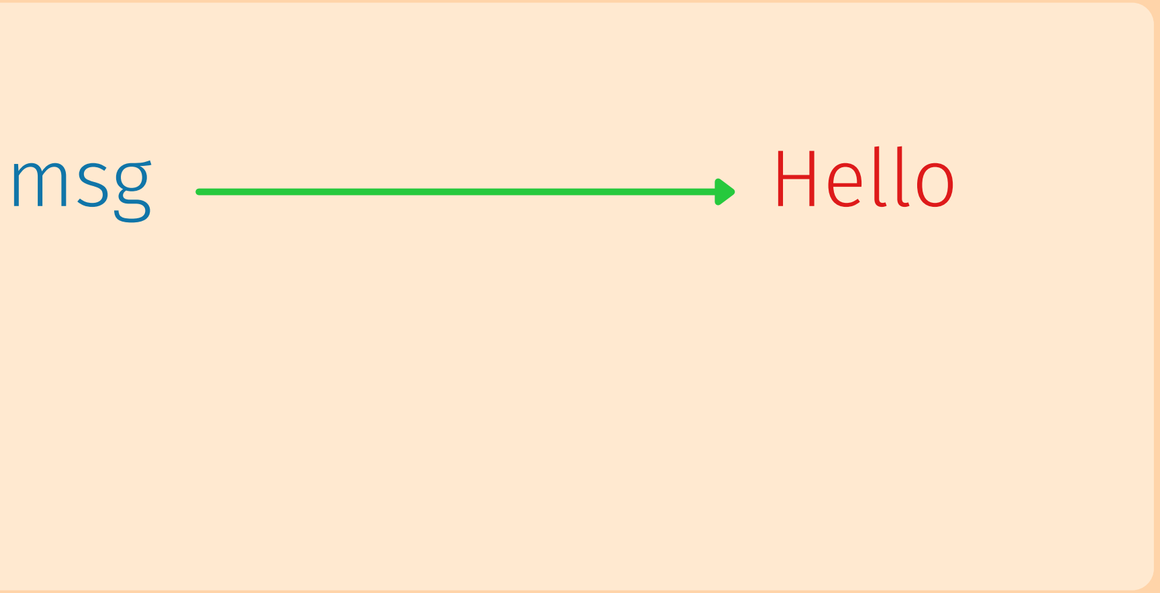
How Variables Work

Your Code

```
>>> msg = "Hello"
```

Names

Objects



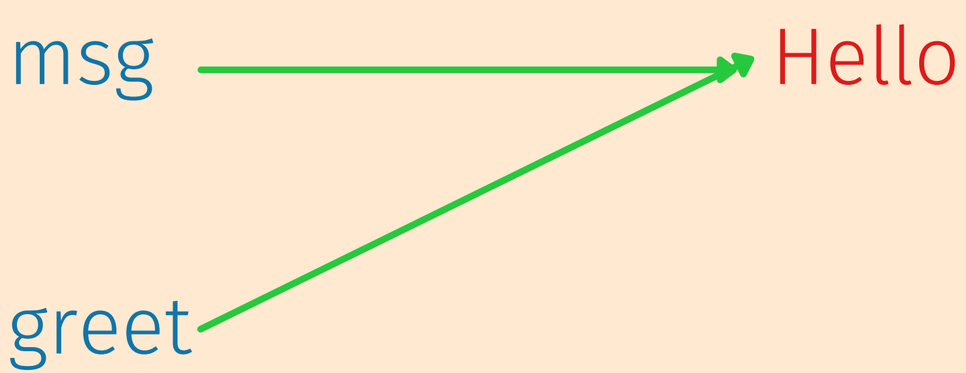
How Variables Work

Your Code

```
>>> msg = "Hello"
>>> greet = "Hello"
```

Names

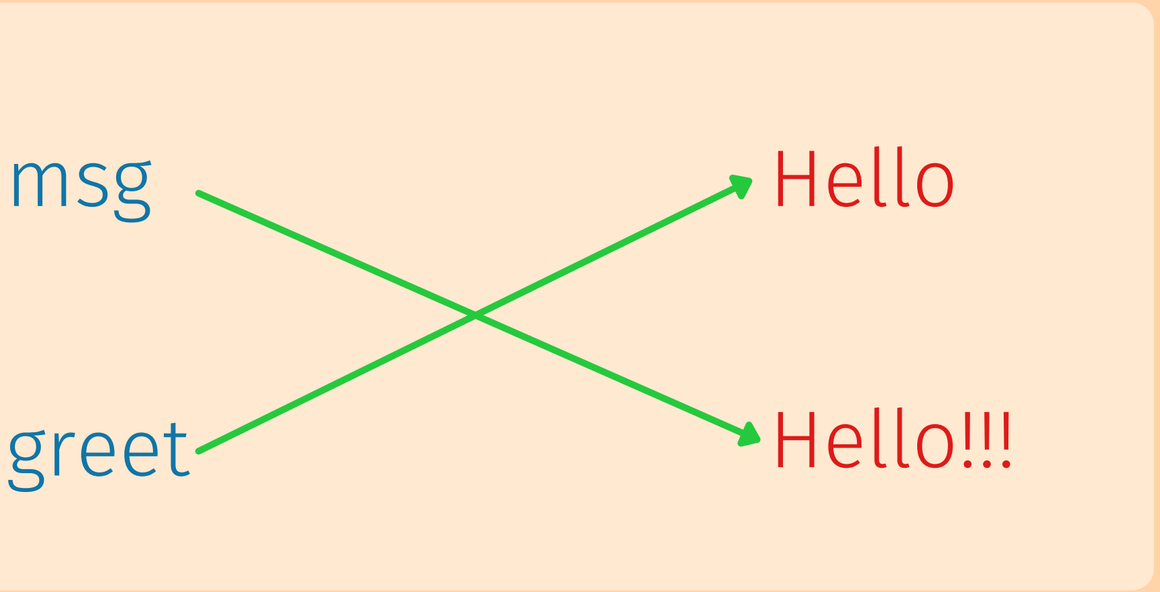
Objects



How Variables Work

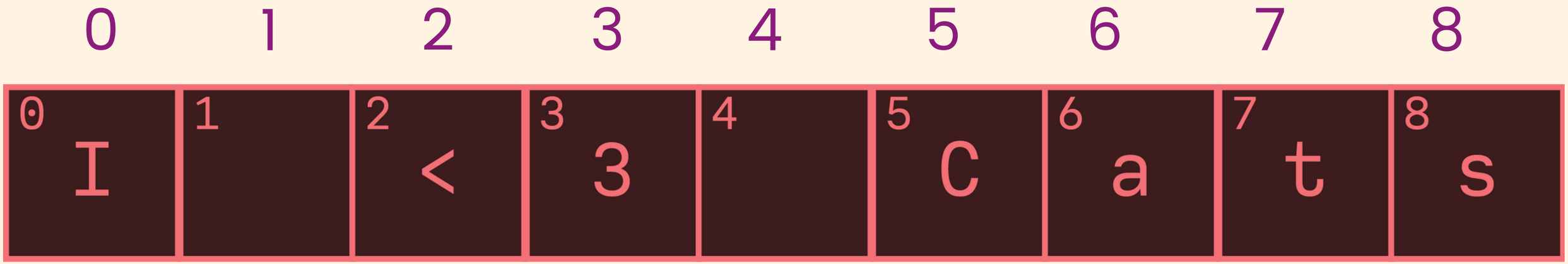
Your Code

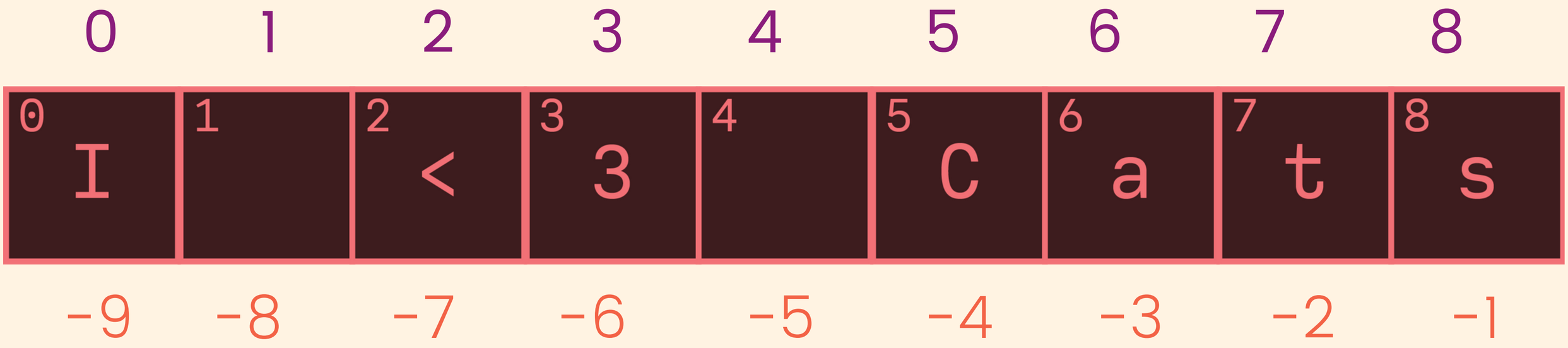
```
>>> msg = "Hello"
>>> greet = "Hello"
>>> msg = "Hello!!!"
```



Indexes

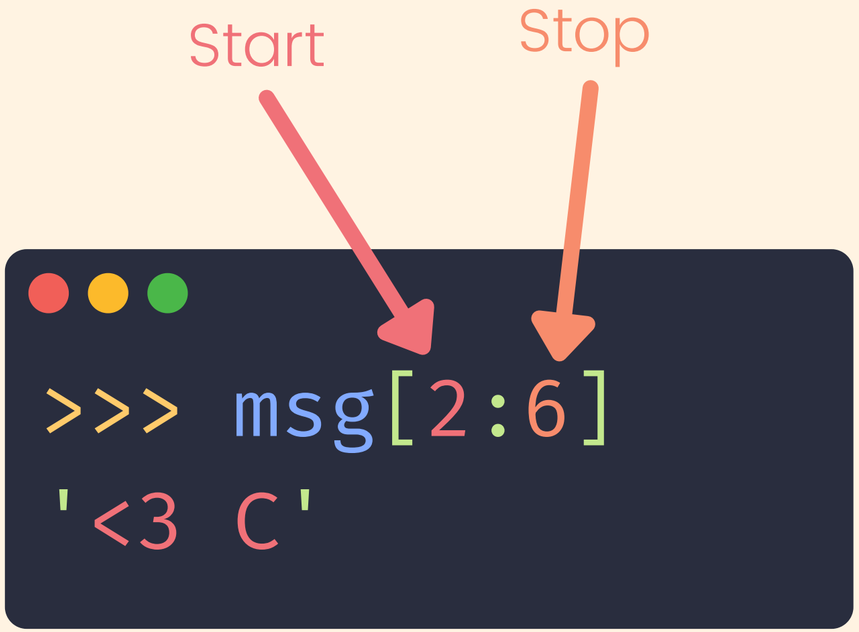

```
>>> msg = "I <3 Cats"
>>> msg[0]
'I'
>>> msg[5]
'C'
```


0 1 2 3 4 5 6 7 8
0 I
1
2 <
3 3
4
5 C
6 a
7 t
8 s


0 1 2 3 4 5 6 7 8
0 I
1
2 <
3 3
4
5 C
6 a
7 t
8 s
-9 -8 -7 -6 -5 -4 -3 -2 -1

Slices

0	1	2	3	4	5	6	7	8
I		<	3		C	a	t	s



Slices with a Step