

Strings { string of individually
accessible characters

- Python operates on white space alone, so no need for semicolons { notes, terms, code }
- variables are generally always lowercase, separated by "_"
- You can use single or double quotes, it depends on whether you have single quotes in your desired message (for printing)
- triple quotes allow for a multi-line string.
- "len" prints out the length

of your desired message.

Example Syntax:

```
message = "Hello World"
```

```
print(len(message))
```

Output - 11

- you can print at specific characters in a string by using the index feature

Keep in mind that it starts from 0th element.

Example syntax:

```
message = 'Hello World'  
print(message[0])
```

Output: H

- you can easily access a range of characters as well, by using a colon.

Example Syntax:

```
message = 'Hello World'  
print(message[0:5])  
|
```

The colon
separates the
starting and
ending index



0 is the starting
index, 5 is the
ending index

The first index is inclusive
and the second index is exclusive

meaning, the code above returns

Hello

when using the colon, you can opt to exclude a starting or finishing index

`print(message[6:])` returns
word

String Methods

end &

• means at string

- `lower()`: returns any given string in all lowercase

- `upper()`: returns any given string in all uppercase

- `count()`: needs an argument,

returns how many times the argument is present in the string.

- `find()`: needs an argument, will return the index (or indices) of where the given argument is in your given string. If it's a word, it will return the index where a given word begins.

- `replace`: takes two arguments, what you want to replace (`ci`), and the second argument, separated by a comma, is what we want to replace it with.

```
message.replace('Word', '!')
```

for this, you can either create a

brand new variable, or, to save space, update the old one.

```
new_message = message.replace('world', '!!')
```

OR

```
message = message.replace('world', '!!')
```

simply adding strings together works, but that can get messy.

instead, use a formatted string!

```
greeting = 'Hello'
```

```
name = 'Melet'
```

message = '{}, {}'. Welcome!'.format(
greeting, name)

Output: Hello, Meet. Welcome!

"f strings" are used to make
formatting as easy as possible.

message = f' {greeting}, {name}.
welcome!'

Output: Hello, Meet. Welcome!

f strings allow you to write
code within the placeholders.

Ex) f '{greeting.upper()}'

if you ever forget:

print(help(str))

will print at every possible
method with a definition!