Strings

PIERIAN DATA

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- Strings are sequences of characters, using the syntax of either single quotes or double quotes:
  - **'hello'**
  - **"Hello"**
  - **" I don't do that "**

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- Because strings are **ordered sequences** it means we can using **indexing** and **slicing** to grab sub-sections of the string.
- Indexing notation uses [ ] notation after the string (or variable assigned the string).
- Indexing allows you to grab a single character from the string...

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- These actions use [ ] square brackets and a number index to indicate positions of what you wish to grab.

Character :	**h**	**e**	**l**	**l**	**o**
Index :	**0**	**1**	**2**	**3**	**4**
Reverse Index:	**0**	**-4**	**-3**	**-2**	**-1**

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- Slicing allows you to grab a subsection of multiple characters, a “slice” of the string.
- This has the following syntax:
  - **[start:stop:step]**
- **start** is a numerical index for the slice start
- **stop** is the index you will go up to (but not include)
- **step** is the size of the “jump” you take.

Let’s explore these concepts!

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```
In [6]: 'hello'
Out[6]: 'hello'

In [7]: "world"
Out[7]: 'world'

In [8]: 'this is also a string'
Out[8]: 'this is also a string'

In [10]: " I'm going on a run "
Out[10]: " I'm going on a run "

In [ ]:
```

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Out[10]: " I'm going on a run "

In [11]:
```
print("hello")
```

```
hello
```

In [13]:
```
print("hello world one")
print("hello world two")
```

```
hello world one
hello world two
```

In [17]:
```
print('hello \tworld')
```

```
hello   world
```

In [ ]:
```
len('hell')
```

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```
In [13]: print("hello world one")
         print("hello world two")

hello world one
hello world two

In [17]: print('hello \tworld')

hello   world

In [18]: len('hello')

Out[18]: 5

In [19]: len('I am')

Out[19]: 4

In [ ]:
```