



Strings and Escape Sequences

Lesson Outcomes

1. Know what a string is
2. Know how to create strings and assign them to variables
3. Understand what an escape sequence is and know how to use common escape sequences
4. Know how to slice strings
5. Know how to access characters within a string by index



What is a String?

Creating Strings in Python

```
str1 = 'This is a string'
```

```
str2 = '1984!'
```

```
str3 = 'rude & not ginger'
```

```
str4 = "LiVe LONG and PRosPER."
```

```
str5 = "!@#$%^&*()_-=+/,.,?><:;~`|[]{}"
```

```
str6 = ""
```

What is an Escape Sequence?

```
str1 = "The book "A Feast for Crows" was written by George R. R. Martin"
```

```
print(str1) # copying this code and running it would result in an error
```

```
str2 = "The book \"A Feast for Crows\" was written by George R. R. Martin"
```

```
print(str2)
```

if you copy the above code from this box into Pycharm, it would output

The book "A Feast for Crows" was written by George R. R. Martin

Where to Find Other Escape Sequences

http://www.tutorialspoint.com/python/python_strings.htm

<https://learnpythonthehardway.org/book/ex10.html>

Accessing By Index

```
str = "example"
```

```
ex1 = str[0] # assigns the variable ex1 "e"
```

```
ex2 = "tape"[2] # assigns variable ex2 "p"
```

Slicing A String

```
example = "apples"
```

```
ex1 = example[:3] # assign the string "app" to the variable ex1
```

```
ex2 = example[2:5] # assign the string "ple" to the variable ex2
```

```
ex3 = example[3:] # assign the string "les" to the variable ex3
```

```
ex4 = "apples"[:3] # assign the string "app" to the variable ex4
```

```
ex5 = "apples"[2:5] # assign the string "ple" to the variable ex5
```

```
ex6 = "apples"[3:] # assign the string "les" to the variable ex6
```

Recap

1. Know what a string is
2. Know how to create strings and assign them to variables
3. Understand what an escape sequence is and know how to use common escape sequences
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What's Next?