Lecture 2: Strings and Lists

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Summary

Last time we talked about types, variables, and assignment. Today we'll take a more in-depth look at strings and talk about something new called "lists".

Strings

Recall that strings can look like this:

- `'a'`, `'abcdef'`, `'the quick brown fox jumps over the lazy dog'`,
- `"double quotes work too in Python"`,
- `'you can include the \'same kind\' of quote if you "escape" the quote with backslashes, or you can use a different kind of quote without escaping it'`

Strings

How does Python store these?

Strings are composed of characters in a certain order. They can be accessed with their *index* (starting from 0) in the string:

```
>>> a = "abcdefg"
>>> a[0]
a
>>> a[1]
b
>>> a[6]
g
>>> a[7]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
IndexError: string index out of range
```