[320] Special Methods

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```
init___ is a special method,
                            with non-standard behavior
class Dog:
    def __init__(dog, name, age):
        print("created a dog")
        dog.name = name
        dog.age = age
    def speak(dog, mult):
        print(dog.name + ": " + "bark!"*mult)
fido = Dog("Fido", 9)
fido.speak(5)
```

There are MANY special method names: https://docs.python.org/3/reference/datamodel.html#special-method-names

We'll learn a few:

__str__, __repr__, _repr_html_

__eq_, __lt__

__len__, __getitem__

__enter__, __exit__

control how an object looks when we print it or see it in Out[N]

generate HTML to create more visual representations of objects in Jupyter. Like tables for DataFrames

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define how == behaves for two
different objects

__len__, __getitem__

define how a list of objects should be sorted

__enter__, __exit__

c = (a==b) # type of c?

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build our own sequences that we index, slice, and loop over:

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context managers

```
with open("file.txt") as f:
    data = f.read()
# automatically close
```