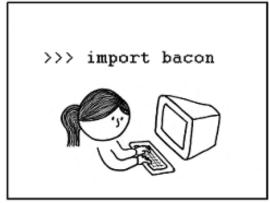
My file is **TOO BIG!**

A (brief) introduction to parsing in python.







http://abstrusegoose.com/

Remembering classes

What are the two things that every class needs to be defined in python?

If some object "carl" has an attribute "hairLoss", how would I print out that value?

If "carl" has a function "applyWig()" how would I use it?

How are special functions used by the python processer named? (we used one of these a lot.)

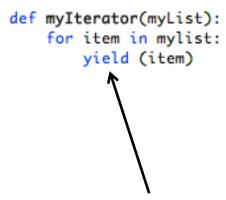
Remembering classes

```
1⊟ class Dinosaur:
        def __init__(self, color, height, call = "Rawr!"):
 20
 3
           self.height = height
 4
            self.color = color
 5
            self.call = call
 6
 70
       def __str__(self):
           return "\"I am a mighty "+self.color+" dinosaur! I stand "+str(self.height)+" meters tall. "+self.call+"\""
 8
 9
10 bob = Dinosaur("green", 200)
11 print(bob)
12 print("Bob is "+str(bob.height/3.28)+" feet tall.\n")
13
14 betty = Dinosaur("blue", 232, "Beep boop bop!")
15 print(betty)
16 print("Betty is "+str(betty.height/3.28)+" feet tall.\n")
```

Remembering classes

```
1⊟ class Dinosaur:
       def __init__(self, color, height, call = "Rawr!"):
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           self.height = height
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12 print("Bob is "+str(bob.height/3.28)+" feet tall.\n")
13
14 betty = Dinosaur("blue", 232, "Beep boop bop!")
15 print(betty)
16 print("Betty is "+str(betty.height/3.28)+" feet tall.\n")
       "I am a mighty green dinosaur! I stand 200 meters tall. Rawr!"
       Bob is 60.9756097561 feet tall.
       "I am a mighty blue dinosaur! I stand 232 meters tall. Beep boop bop!"
       Betty is 70.7317073171 feet tall.
```

An **Iterator** is used to step through an object's data.



Iterators use the yield keyword

An **Iterator** is used to step through an object's data.

```
def myIterator(myList):
    for item in mylist:
        yield (item)
```

```
aList = [1,5,6,2]
for thing in myIterator(aList):
    print(thing)
```

To use an iterator you just use a for loop

An **Iterator** is used to step through an object's data. But you can specialize it depending on your needs.

```
def mySquareIterator(myList):
    for item in mylist:
        yield (item**2)
```

An **Iterator** is used to step through an object's data. But you can specialize it depending on your needs.

```
def mySquareIterator(myList):
    for item in mylist:
        yield (item**2)
        alist = [1,5,6,2]
        for thing in mySquareIterator(alist):
        print(thing)
```

Objects can have **iterator** functions...

```
class Dinosaur:
    def __init__(self, color, height, call = "Rawr!"):
        self.height = height
        self.color = color
        self.call = call

def __iter__(self):
        yield self.height
        yield self.color
        yield self.call

def __str__(self):
        return "\"I am a mighty "+self.color+" dinosaur! I stand "+str(self.height)+" meters tall. "+self.call+"\""

bob = Dinosaur("green", 200)

for thing in bob:
    print(thing)
```

Objects can have **iterator** functions...

```
class Dinosaur:
    def __init__(self, color, height, call = "Rawc!"):
        self.height = height
        self.color = color
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def __iter__(self):
        yield self.height
        yield self.color
        yield self.call

def __str__(self):
        return "\"I am a mighty "+self.color+" dinosaur! I stand "+str(self.height)+" meters tall. "+self.call+"\""

bob = Dinosaur("green", 200)

for thing in bob:
    print(thing)
```

200 green Rawr!