Instance Variables

On to the next line:

```
class Fib:
    def __init__(self, max):
        self.max = max          #①
```

① What is `self.max` ? It's an instance variable. It is completely separate from `max`, which was passed into the `__init__()` method as an argument. `self.max` is "global" to the instance. That means that you can access it from other methods.

```
class Fib:
    def __init__(self, max):
        self.max = max          #①
    #.
    #.
    #.
    def __next__(self):
        fib = self.a
        if fib > self.max:      #②
            pass #equal to do nothing
```

① `self.max` is defined in the `__init__()` method...

② ...and referenced in the `__next__()` method.

Instance variables are specific to one instance of a class. For example, if you create two `Fib` instances with different maximum values, they will each remember their own values.

```
import fibonacci2
fib1 = fibonacci2.Fib(100)
fib2 = fibonacci2.Fib(200)

print (fib1.max)
#100
print (fib2.max)
```

#200