

Girl Develop It Buffalo
is here to help you
learn!

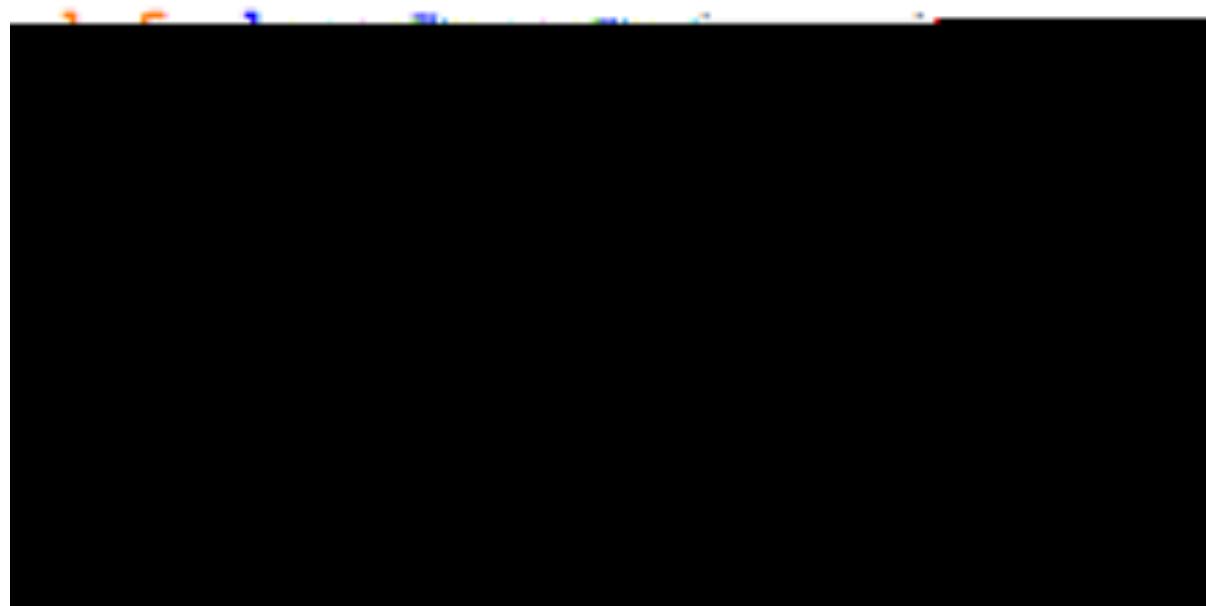
Some “rules”:

A Quick Review

!

!

Functions/Methods and Parameters



Functions/Methods and Parameters




```
for index in
```

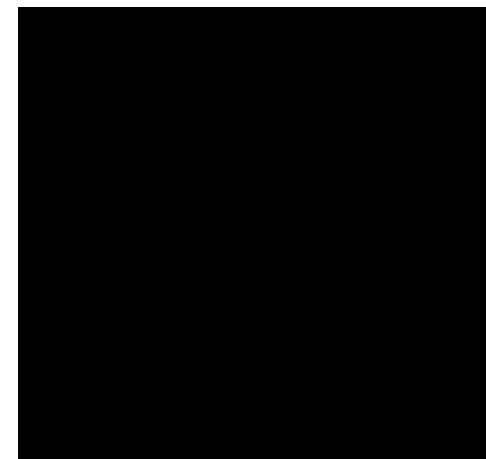
```
    1 2 3 4 5
```


Questions before we dive into the

There are lots of good things coding
teaches us about life...

But coding isn't
always like the rest
of life, and that can
be kind of nice too.

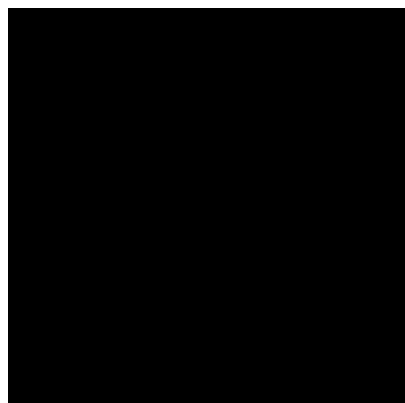
Intro to Python, Class 2 of 2



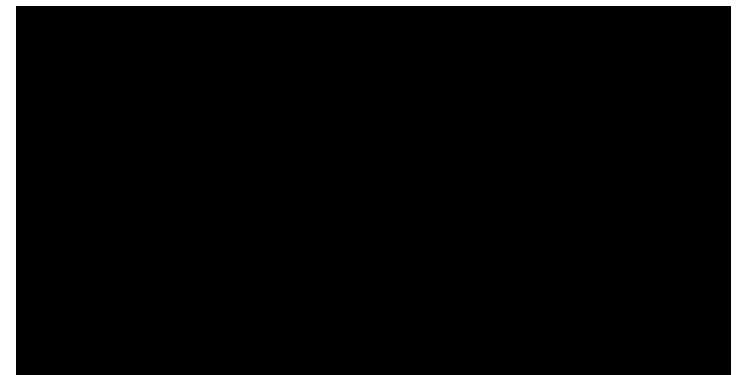
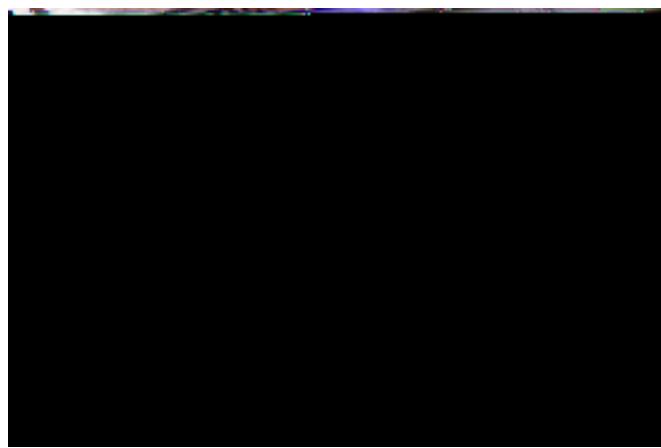
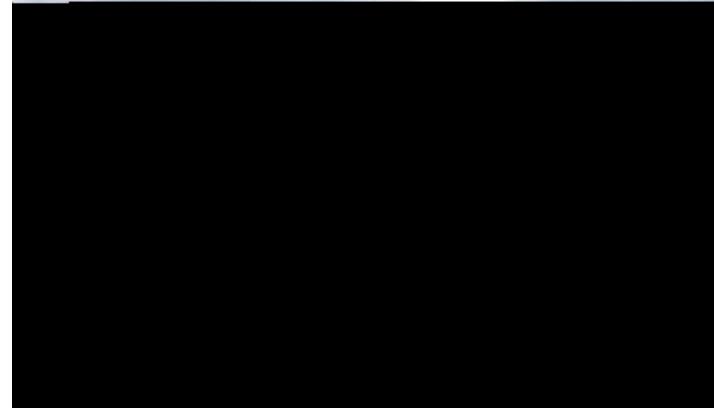
Object-Oriented Programming
and Debugging

Classes and Object-Oriented Programming

Think of the class like a pattern or a mold. Then you instantiate many copies of that class to hold the actual data. Each copy is called an “object”.



We'll build a store and inventory!



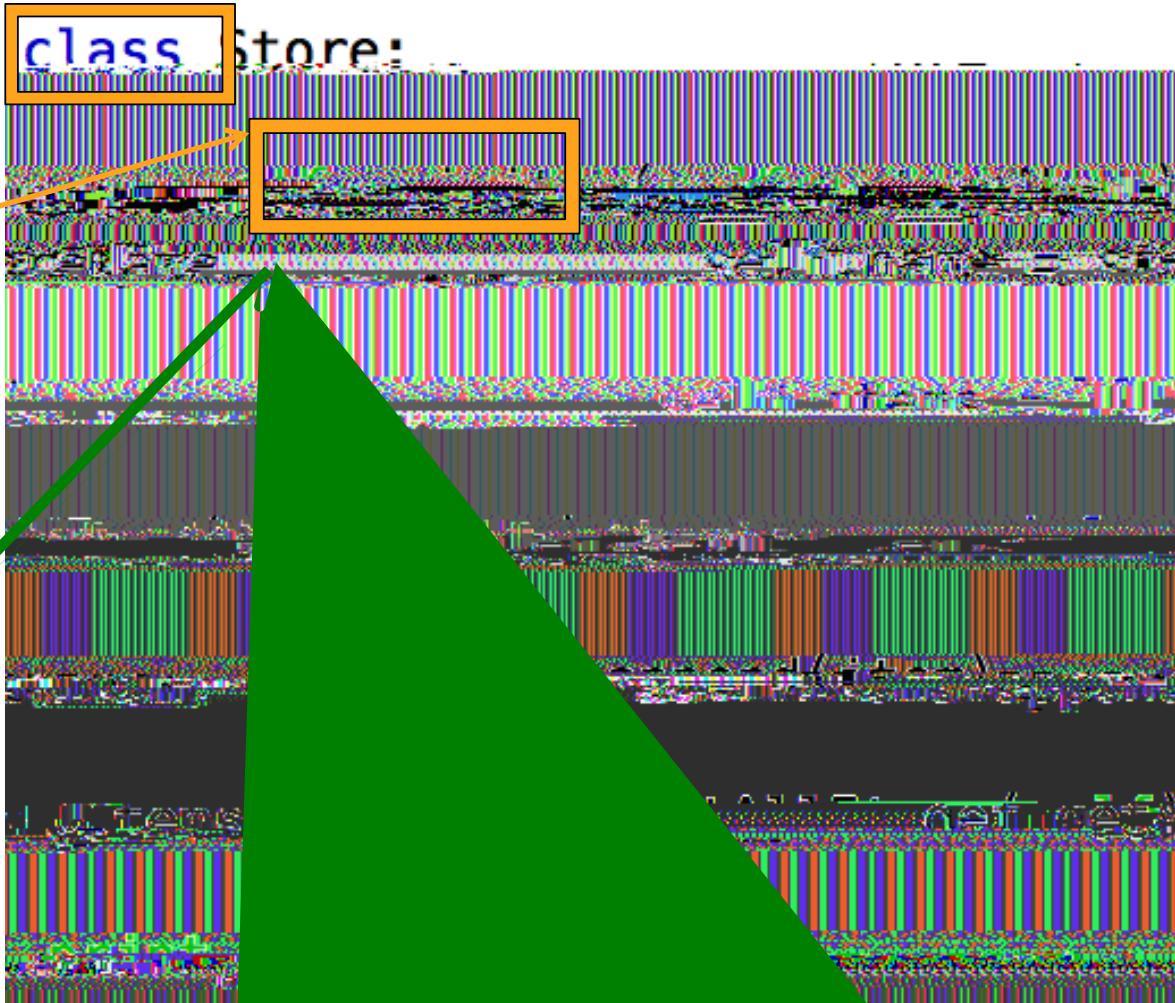
[show part of the code for Store
class]

Some things to notice in the code we just copied:

```
class Store:
    def __init__(self):
        self.items = []
    def add_item(self, item):
        self.items.append(item)
    def get_items(self):
        return self.items
```


Some things to notice in the code we just copied:

“class” keyword



Can't change the name of the
__init__ method,
and it must be
the first method
in the class

“self” keyword
before all
variables

Some things to notice in the code we just copied:

“self” keyword

```
class Store:  
    def __init__(self, items):  
        self.items = items  
        self.num_items = len(items)  
  
    def add_item(self, item):  
        self.items.append(item)  
        self.num_items += 1  
  
    def get_num_items(self):  
        return self.num_items  
  
    def get_items(self):  
        return self.items
```


Done already?

BROKEN CODE!!!!

BROKEN CODE!!!!

Hey, it happens.

In case you need
an error to debug,
help a neighbor!

There's also some broken
sample code on our server
for you to fix.

Defensive Coding

1.! Code in small pieces! Write 5 lines, then run

Defensive Coding

1.!

Defensive Coding in Action!

Add print statements in an “if” block...

Defensive Coding in Action!

Add print statements in an “if” block...

... and watch them in action.

Now you try adding some new

Class 2 Material

- .. Object-Oriented programming
- .. Classes
- .. Scripting to make Objects from Classes
- .. Formatting Output (aka printing nicely)
- .. Techniques for Debugging
- .. Defensive Coding
- .. Making a complex system with code :)

Closing!

Other Ways to Keep Learning

Help us set up more study groups:

- |

