

# Web Design and Programming (0107558)

## Internet Programming (0107571)<sup>1</sup>

PHP Object Oriented Concepts

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<sup>1</sup>Michael Mendez. *The Missing Link: An Introduction to Web Development and Programming*. Open SUNY Textbooks 2014.

# PHP Object Oriented Concepts

## Object Oriented Concepts

- ▶ Class: A template or a blueprint that describes the nature of something. It consists of data structures and methods.
- ▶ Object: An instance of a class.
- ▶ Inheritance

# PHP Object Oriented Concepts

## Creating an object

```
class Dog{  
    public $name=false;  
  
    function bark(){  
        echo $this->name . " can bark\n";  
    }  
}
```

```
$silver=new Dog();  
$silver->name="silver";  
$silver->bark();
```

# PHP Object Oriented Concepts

## Creating an object

```
$myClass= new stdClass();  
$myClass->name="Odat";  
$myClass->gain=10;  
//equivalent to:  
class MyClass{  
    public $name="Odat";  
    public $gain=10;  
}  
$mine=new MyClass();  
  
print_r($myClass);  
print_r($mine);
```

# PHP Object Oriented Concepts

## Access items

- ▶ Static items in a class.

```
echo DateTime::RFC822 . "\n";
```

- ▶ Items within an object.

```
echo $silver->name . "\n";
```

# PHP Object Oriented Concepts

Demo

6-phobjectorientedconcepts.php

# PHP Object Oriented Concepts

## Quiz - 1

- ▶ In Object Oriented programming, what is another name for the "attributes" of an object?
  - ▶ fields
  - ▶ portions
  - ▶ forms
  - ▶ methods
  - ▶ messages
- ▶ At the moment of creation of a new object, PHP looks at the ( ) definition to define the structure and capabilities of the newly created object
  - ▶ cache
  - ▶ class
  - ▶ constructor
  - ▶ instance
  - ▶ method

# PHP Object Oriented Concepts

## Quiz - 2

- ▶ Which of the following is not a good synonym for 'class' in PHP?
  - ▶ blueprint
  - ▶ template
  - ▶ direction
  - ▶ pattern

- ▶ What does the following code accomplish:

```
$now = new DateTime();
```

- ▶ Subtract the value of the new variable from the value in the DateTime variable and put the difference in \$now
- ▶ Clear out all the data in the DateTime variable and put the old values for the data in \$now
- ▶ Copy the value from the DateTime variable to the variable \$now
- ▶ Using the DateTime template make a new object and assign it to \$now



# PHP Object Oriented Concepts

## Quiz - 3

- ▶ What is the syntax to look up the fullname attribute in an object stored in the variable \$colleen
  - ▶ \$colleen - > \$fullname
  - ▶ \$colleen[" fullname"]
  - ▶ \$colleen - > fullname
  - ▶ \$colleen::fullname
  - ▶ \$colleen.\$fullname
- ▶ Which of these statements is used to indicate that class A will inherit all the features of class B.
  - ▶ A - > features = B - > features
  - ▶ class A extends B
  - ▶ A=B++
  - ▶ class A inherits B
  - ▶ class A instanceof B

# PHP Object Oriented Concepts

## Quiz - 4

- ▶ Which of the class member visibility settings indicates that a member variable can be accessed within a class and all sub-classes but not outside of the class.
  - ▶ private
  - ▶ public
  - ▶ protected
  - ▶ subclass
  - ▶ limited
- ▶ What does the "::" operator do in PHP?
  - ▶ Allows us to access private methods of a class from outside of the class
  - ▶ Allows us to access member functions from an object
  - ▶ Allows us to inherit information from one class to another
  - ▶ Allows us to access constants and static items from a class