

QUIZ

When defining a property of a class, which visibility should be used such that the property is accessible from outside of the class?

public



Members with a **public** visibility are accessible outside of the class.

protected

private

Fill in the code to print the value of the **color** property for the **\$mug** object.

```
class Vessel {  
  public $color = "falu red";  
}
```

```
$mug = new Vessel();
```

```
echo    ;
```



You got it!

What is wrong with this code?

```
class Vehicle {
    private $speed;
    function __construct($speed) {
        $this->speed = $speed;
    }
}

class Train extends Vehicle {
    function getSpeed() {
        return $this->speed;
    }
}

$stopped_train = new Train(0);
echo $stopped_train->getSpeed();
```

Private members, like `speed` cannot be accessed in the constructor.

`Train` has no constructor.

The `Train` class does not have access to `speed`.



`speed` is defined as `private` to `Vehicle`. It would need to be `protected` or `public` for this code to work.

Fill in the code so that every carpet is initialized to have a `style` of "shag pile".

```
class Carpet {
    private $style;
    function () {
         =  ;
    }
}
```



You got it!

Fill in the code to access and print the value associated with the static property `capacity`.

```
class Seat {
    public static $capacity = 1;
}

echo    ;
```



You got it!

When defining a property of a class, which visibility should be used such that the property is only accessible from within the class itself (and not from any descendant classes)?

protected

public

private



Members with a **private** visibility are accessible only within the class itself.

Fill in the code to create a **Sneaker** class that inherits from the **Footwear** class.

```
class Sneaker extends Footwear {  
  # Sneaker class definition  
}
```



You got it!

When defining a property of a class, which visibility should be used such that the property is not accessible from outside the class but is accessible within descendant classes?

public

private

protected



Members with a **protected** visibility are accessible within the class itself and its descendants.