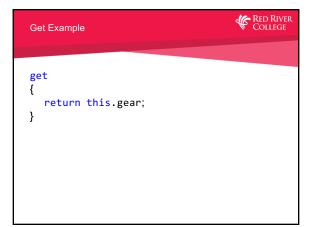
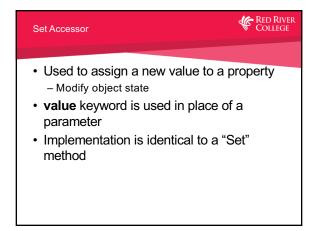
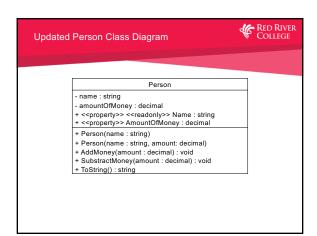


```
public class Car
{
  private Gear gear;
  public Gear Gear
  {
     get
     {
        return this.gear;
     }
     set
     {
        this.gear = value;
     }
}
```



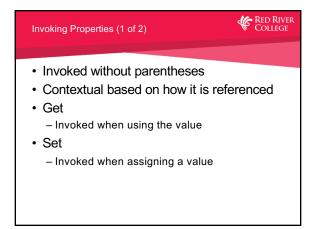


```
set
{
  this.gear = value;
}
```

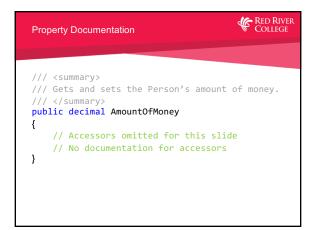


```
public string Name
{
   get
   {
      return this.name;
   }
}
```

```
public decimal AmountOfMoney
{
    get
    {
        return this.amountOfMoney;
    }
    set
    {
        this.amountOfMoney = value;
    }
}
```

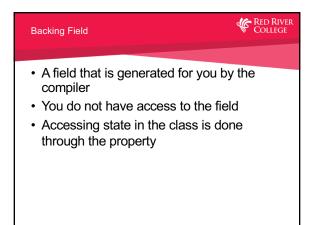


```
static void Main(string[] args)
{
    Person damien;
    damien = new Person("Damien");
    Person clipartDan = new Person("Clipart Dan", 45);
    damien.AmountOfMoney = 100;
    Console.WriteLine("{0}: {1:C}", damien.Name, damien.AmountOfMoney);
    Console.WriteLine(clipartDan);
    Console.WriteCress any key to continue...");
    Console.ReadKey();
}
```

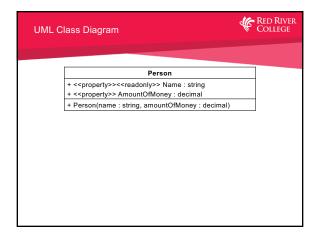




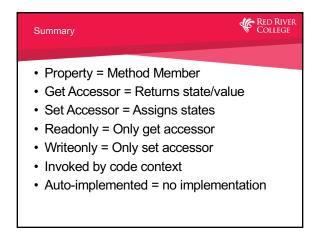
## When do I auto-implement a property? When the property is only used to: Return the value of a field Set the value of a field The design has a property, but no associated field



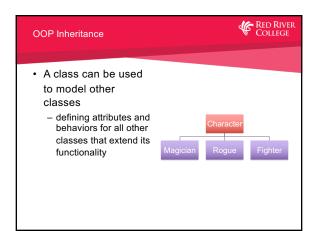
```
public class Person
{
    public string Name
    {
        get; private set;
    }
    public decimal AmountOfMoney
    {
        get; set;
    }
    public Person(string name, decimal amountOfMoney)
    {
        this.Name = name;
        this.AmountOfMoney = amountOfMoney;
    }
}
```

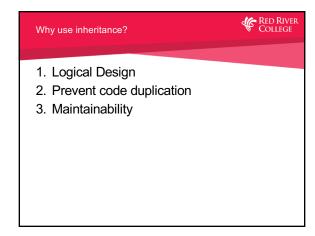


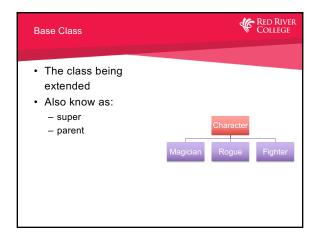


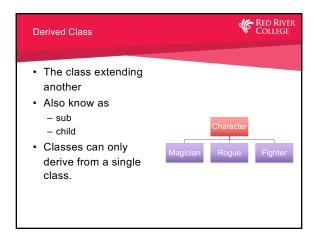


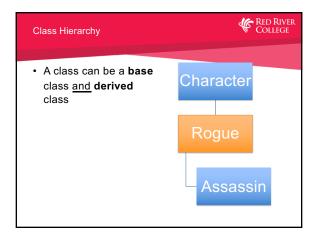










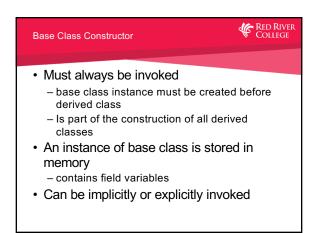




```
public class A
{
   private string attribute;
   public string SomeMethod()
   {
      return this.attribute;
   }
}
public class B : A
{
```

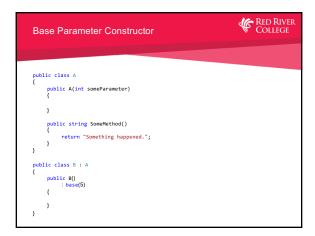
```
constructing Derived Class Instance

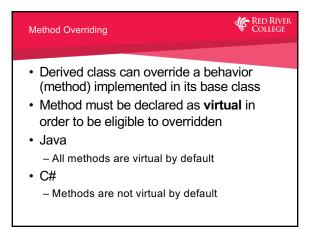
static void Main(string[] args)
{
    B obj = new B();
    Console.WriteLine(obj.SomeMethod());
    Console.Write("Press any key to continue...");
    Console.ReadKey();
}
```



```
public class A
{
   public string SomeMethod()
   {
     return "Something happened.";
   }
}
public class B : A
{
}
```

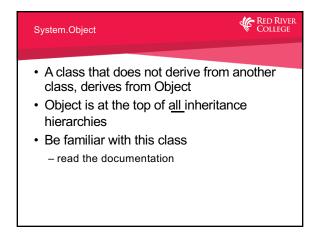
```
public class A
{
public A()
{
}
public string SomeMethod()
{
return "Something happened.";
}
}
public class B : A
{
```

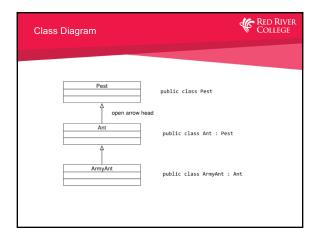


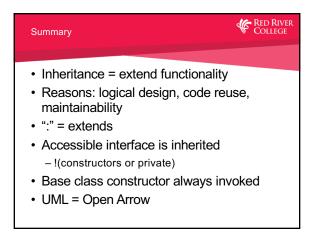


```
public class A
{
   public virtual string SomeMethod()
        return "Something happened.";
    }
}
public class 8 : A
{
   public override string SomeMethod()
        return "Something different happens here.";
   }
}
```

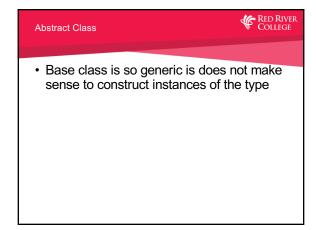
## The keyword base can be used to reference the instance of the base class Used when you want to add additional functionality

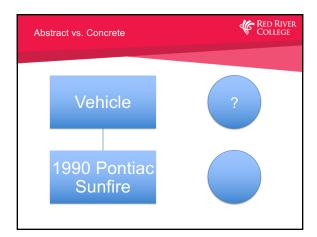




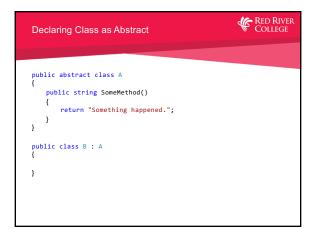








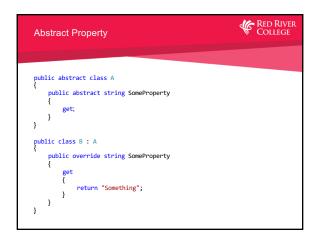
## Class is used to model more specific (concrete) types Instances cannot be constructed using the new keyword Instances created by creating instances of the derived type

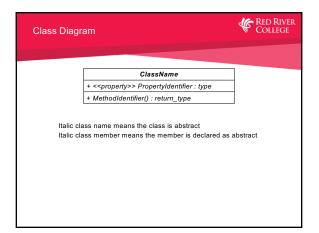


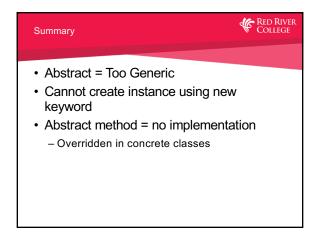
## Method with no implementation Must be implemented (overridden) in a concrete class Ensures that derived types: Have the behavior Implements the behavior A class with an abstract method must be abstract

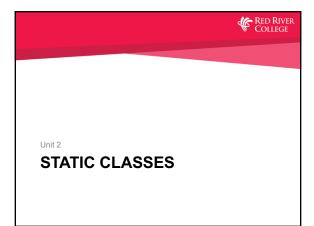
```
public abstract class A
{
    public abstract string SomeMethod();
}

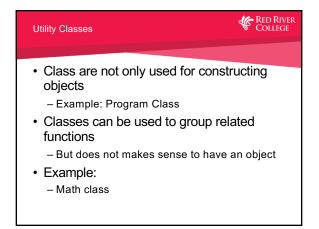
public class B : A
{
    public override string SomeMethod()
    {
        return "Something happens";
    }
}
```

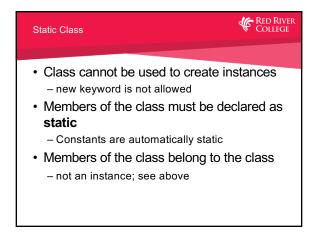


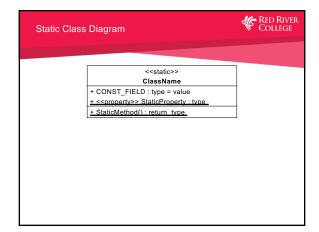


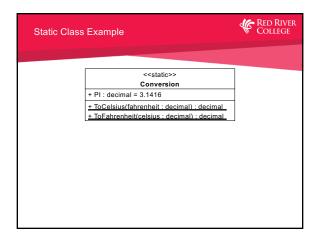












```
Public static class Conversion
{

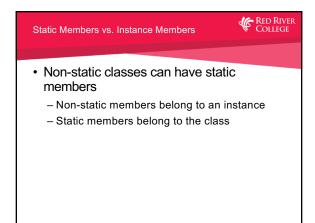
public const decimal PI = 3.1416m;

public static decimal ToFahrenheit(decimal celsius)
{

return (celsius * 9 / 5) + 32;
}

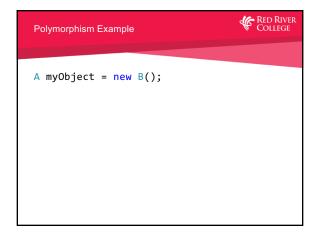
public static decimal ToCelsius(decimal fahrenheit)
{

return (fahrenheit - 32) * 5 / 9;
}
}
```

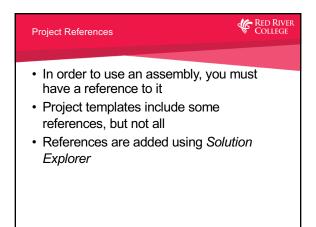


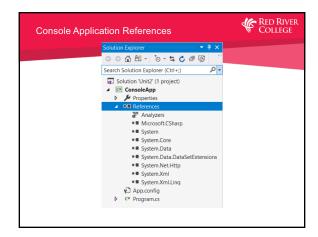


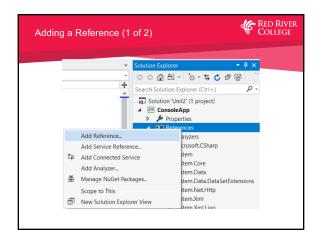
Base type variable can reference a derived type













Managing Project Files	RED RIVER College
Avoid using File Evalorer in Win	douro
Avoid using File Explorer in Wind     Use the Solution Explorer in Visua	
<ul> <li>Solution Explorer can be used to – Create folders (directories)</li> </ul>	o:
– Move Files	
<ul><li>Remove Files (from project, not file</li><li>Copy Files</li></ul>	e system)
Files can be moved from one pro another	oject to