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C# Classes and Objects

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Classes and Objects

You learned from the previous chapter that C# is an object-oriented programming language.

Everything in C# is associated with classes and objects, along with its attributes and methods. For example: in real life, a car is an object. The car has **attributes**, such as weight and color, and **methods**, such as drive and brake.

A Class is like an object constructor, or a "blueprint" for creating objects.

Create a Class

To create a class, use the `class` keyword:

```
class Car
{
    string color = "red";
}
```

When a variable is declared directly in a class, it is often referred to as a **field** (or attribute).

It is not required, but it is a good practice to start with an uppercase first letter when naming classes. Also, it is common that the name of the C# file and the class matches, as it makes our code organized. However it is not required (like in Java).

Create an Object

An object is created from a class. We have already created the class named `Car`, so now we can use this to create objects.

To create an object of `Car`, specify the class name, followed by the object name, and use the keyword `new`:

Example

Create an object called "`myObj`" and use it to print the value of `color`:

```
{  
    string color = "red";  
  
    static void Main(string[] args)  
    {  
        Car myObj = new Car();  
        Console.WriteLine(myObj.color);  
    }  
}
```

[Run example »](#)

Note that we use the dot syntax (`.`) to access variables/fields inside a class (`myObj.color`). You will learn more about fields in the next chapter.

Multiple Objects

You can create multiple objects of one class:

Example

Create two objects of `Car` :

```
{  
    string color = "red";  
    static void Main(string[] args)  
    {  
        Car myObj1 = new Car();  
        Car myObj2 = new Car();  
        Console.WriteLine(myObj1.color);  
        Console.WriteLine(myObj2.color);  
    }  
}
```

[Run example »](#)

Using Multiple Classes

You can also create an object of a class and access it in another class. This is often used for better organization of classes (one class has all the fields and methods, while the other class holds the `Main()` method (code to be executed)).

- Car.cs
- Program.cs

Car.cs

```
class Car  
{
```



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Program.cs

```
class Program
{
    static void Main(string[] args)
    {
        Car myObj = new Car();
        Console.WriteLine(myObj.color);
    }
}
```

[Run example »](#)

Did you notice the `public` keyword? It is called an **access modifier**, which specifies that the `color` variable/field of `Car` is accessible for other classes as well, such as `Program`.

You will learn much more about **access modifiers** and **classes/objects** in the next chapters.

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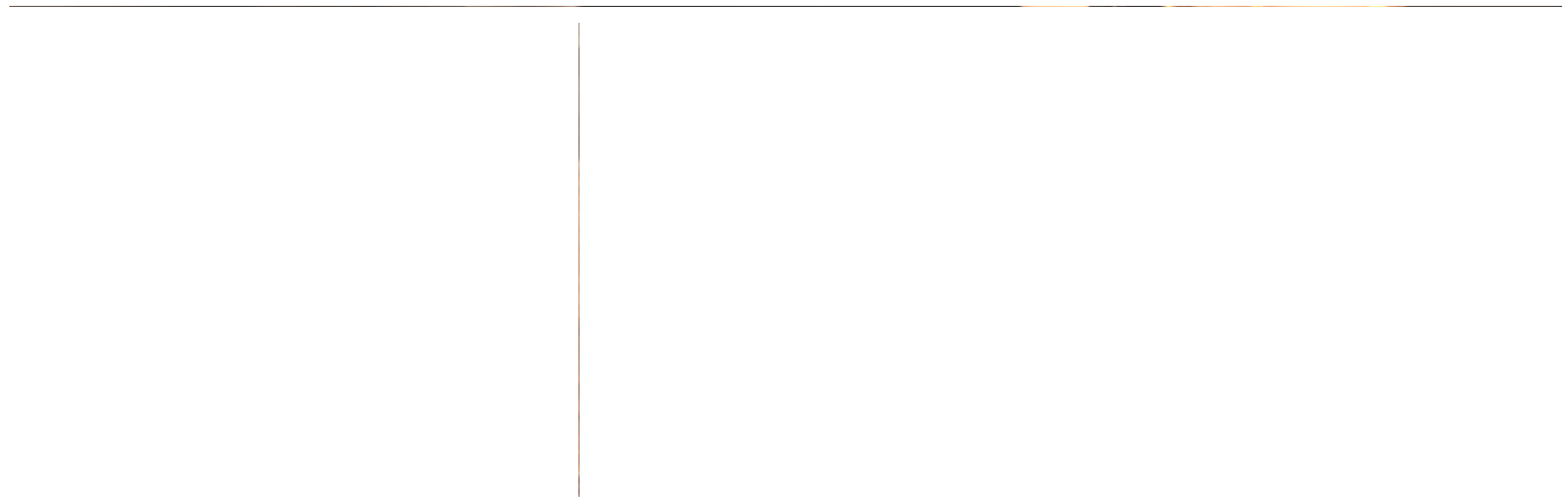
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