

# Object-Oriented Programming in Visual Basic

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# Module Goals



**Learn object-oriented principles**

**Built-in data type methods**

**Create properties**

**Create methods**

**Initialize properties using a constructor**

**Inheritance**

**Overriding and overloading**



# Built-In Methods

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# Demo



## Built-in string data type methods



# Demo



## Built-in numeric data type methods



# Demo



## Built-in DateTime data type methods



# Creating Classes & Properties

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# Demo



Create product class

Add properties





# Demo



Auto-implemented properties

ReadOnly property



# Methods

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# Demo



## Methods

- Sub procedures



# Demo



## Pass parameter by reference



# Demo



## Methods

- Functions



# Demo



## Optional parameters



# Demo



## Overloading methods



# Demo



**Initialize variables with a constructor**





# Demo



## Shared methods



# Inheritance

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# Demo



## Inheritance



# Demo



## Overridable and overrides



# Demo



`ToString()` override

Protected keyword



# Summary



Use classes for everything

Use properties and methods

Avoid ByRef

Take advantage of inheritance





Coming up in the next module...

Create a reusable DLL  
Move classes into DLL

