
VISUAL BASIC .NET

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VB .NET

- * Object-oriented language
- * Part of the Microsoft .NET family of languages
- * Descended from older Visual Basic; parent of VBScript
- * Garbage-collected
- * Strongly tied to Windows Forms development

Data Types and Variables

- * Java-like built-in data types:

- * Boolean, Byte, Char, Decimal, Double, Integer, Long, Object, Short, String

- * Arrays

- * Typed; declared with an upper and optional lower bound

- * Historically could be non-zero-indexed; changed after VB6

Declarations

```
Dim myStr As String = "Hello, World!"
```

```
Dim myArr As Integer(3) = {2, 4, 6}
```


Strings

- * Large standard string library
 - * Substring, Trim, ToLower, ToUpper, Replace, Equals, Contains, Join, Compare, Copy
- * Operator overloading: concatenate with + and &

OO Structures

- * Classes work like usual (`Class` keyword)
- * Two kinds of methods:
 - * Functions return values and are typed
 - * Subroutines (`Subs`) have no return or type
- * Blocks declared using `Do` and `End` keywords

Potential gotchas

- * Whitespace sensitive
- * Comments with apostrophe
 - * No multiline comments
- * Function parameters specified by reference or by value

Threading

- * Easy thread creation, instantiation

```
Dim t As Thread
```

```
t = New Thread(AddressOf Me.threadStartFn)
```

```
t.Start()
```

Updating GUI elements from non-main thread is tricky!

Windows Forms

- * Very common for simple GUI building
- * High-level built-in components
- * Common OO interface

LIVE CODING
