VB.NET Fundamentals

WHAT CAN I BUILD WITH VISUAL BASIC .NET?

Paul D. Sheriff
BUSINESS SOLUTIONS ARCHITECT, FAIRWAY TECHNOLOGIES, INC.

www.fairwaytech.com psheriff@fairwaytech.com

Course Goals

- Learn the syntax of Visual Basic .NET
- OOP in Visual Basic
- Create reusable DLLs
- Use .NET collections
- Build a WPF application
- Build an MVC application

I assume you...

- Are a programmer in some language
- Have little or no experience with VB

You want to...

- Become proficient in Visual Basic
- Learn about .NET
- See how to write .NET applications in Visual Basic

Related Pluralsight Course

Visual Studio 2017 Essentials and Beyond

by Kate Gregory

LINQ Fundamentals

by Scott Allen

XML Fundamentals in C#

by Paul D. Sheriff

Modules in This Course

Modules in this Course

What Can I Build with Visual Basic .NET?

- A VB overview
- See the samples you build in this course

Using Variables, Operators and Constants

- Data types, scoping and constants
- Math, relational and comparison operators

Object-Oriented Programming in Visual Basic

- Classes, properties and methods
- Inheritance, overrides, constructors

Modules in this Course

Create Your Own Reusable Visual Basic DLLs

- Separate classes into DLLs
- Build a WPF application

Utilizing Visual Basic Collections

- Learn to use collections of classes
- Display product and customer collections in a WPF application

Modules in this Course

If Statements and Looping in Visual Basic

- Do and For loops
- If, Else and Case statements

Create an MVC Application using Visual Basic

- Create MVC web application
- Reuse DLLs from previous module

.NET Overview

What is .NET?

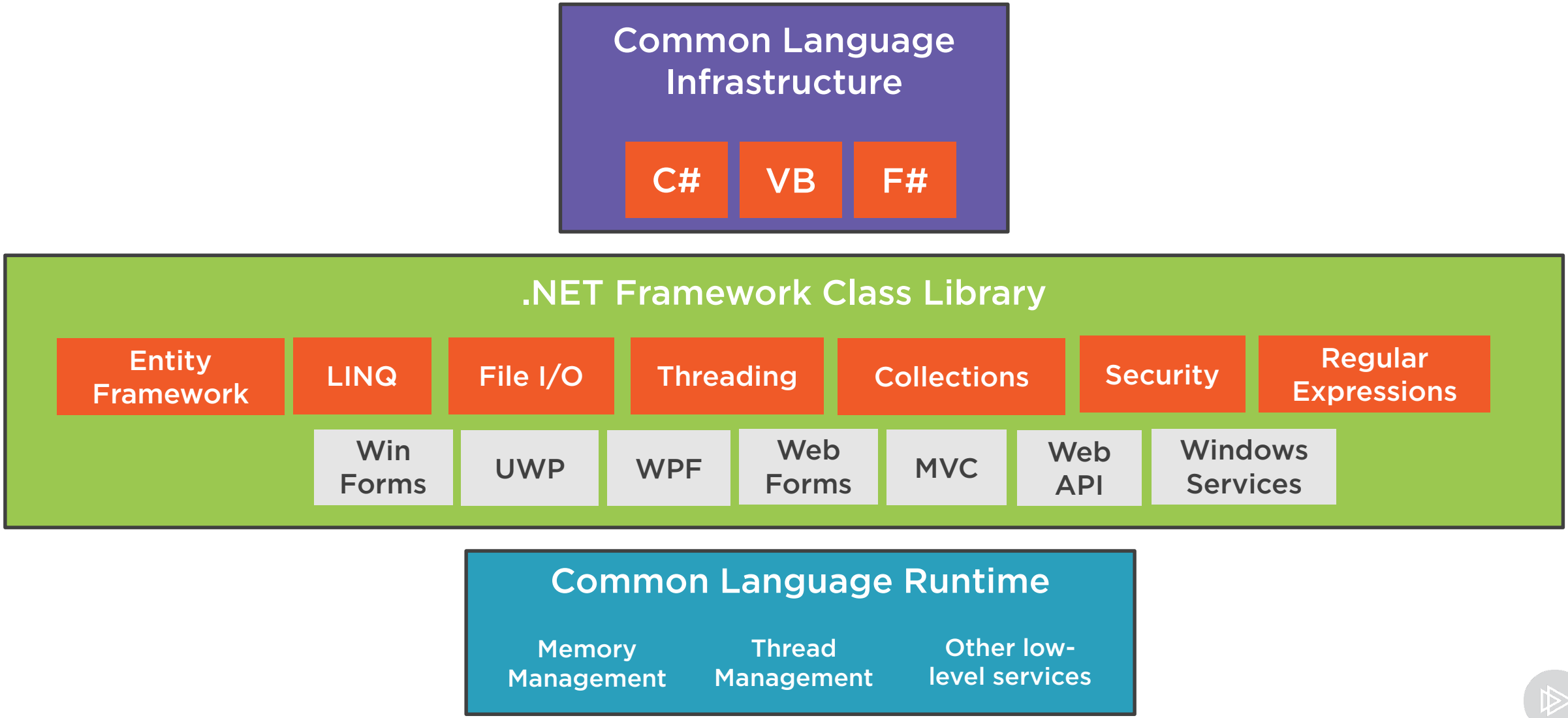
Free, open source, cross-platform developer environment

Common runtime with extensive class libraries

Develop in multiple languages

Build web, mobile, desktop, games, IoT, etc.

The .NET Framework



Visual Basic .NET Overview

What is VB.NET?

BASIC language targeting the .NET Framework

Fully integrated into Visual Studio

Supported and updated by Microsoft

Why VB.NET?

Quick and easy to build .NET applications

Type-safe, object-oriented

Can build any type of modern application

Full access to security and language interoperability in .NET

What You Can Build with VB.NET

Windows Presentation Foundation Applications

Windows Forms Applications

MVC Web Applications

Web Forms Applications

What You Can Build with VB.NET

Web API Applications

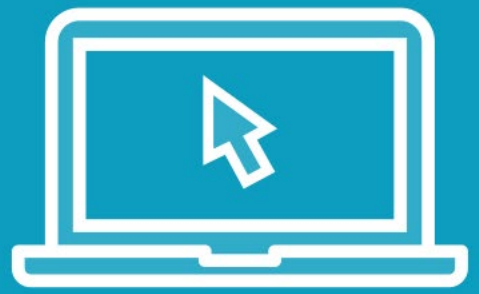
Azure (Cloud) Applications

Windows Service Applications

Windows 10 Applications

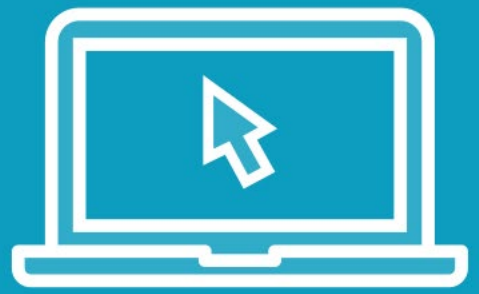
Reusable Class Libraries

Demo



WPF application

Demo



MVC application

Summary

The .NET Framework provides a great starting point

Visual Basic is a first-class citizen of .NET

VB makes it easy to develop robust, reusable applications

Coming up in the next module...

Variables

Math, relational and comparison operators