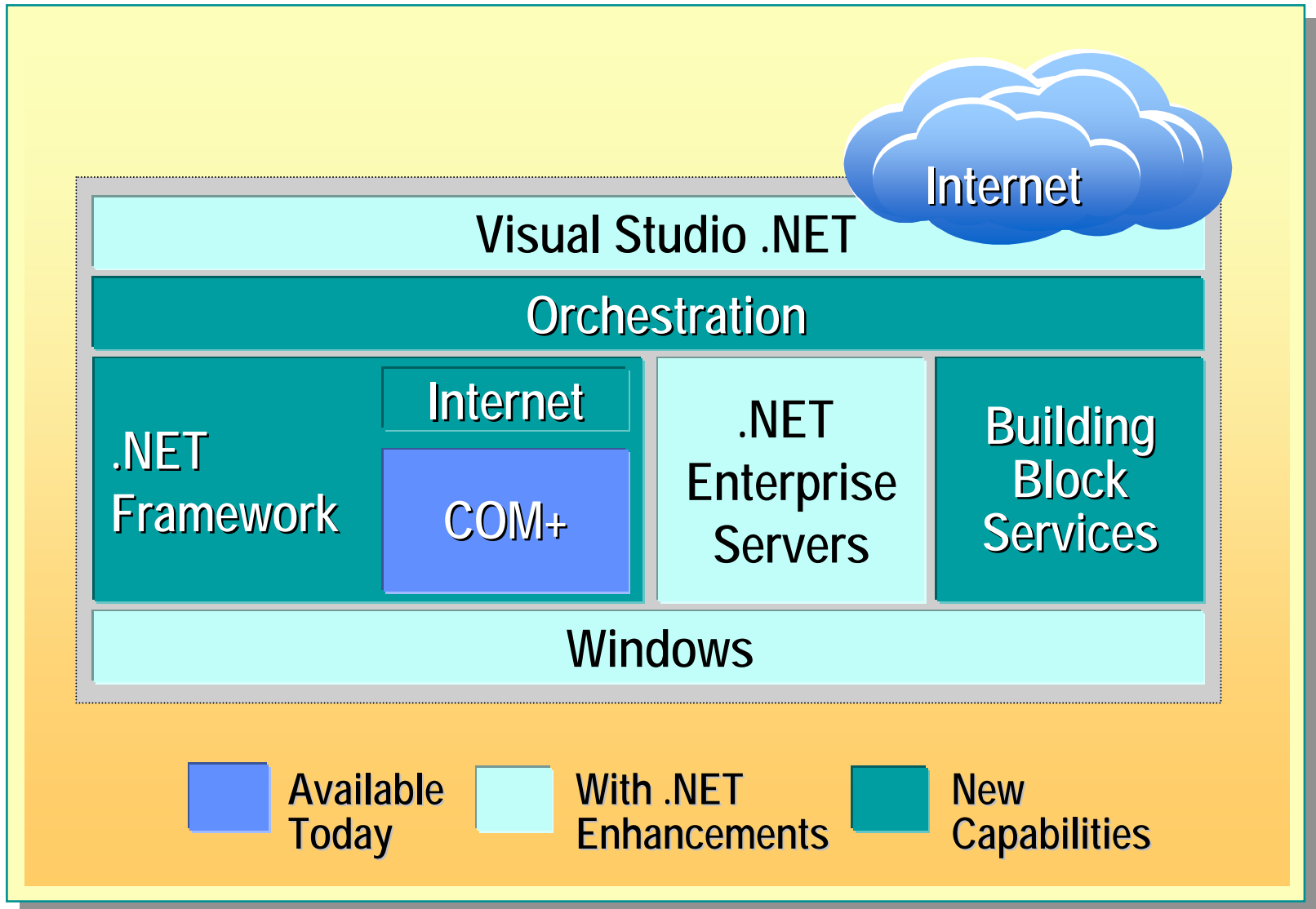


# **Module 1: Overview of the Microsoft .NET Platform**

# Overview

- What Is the Microsoft .NET Platform?
- What Is the .NET Framework?
- What Are the .NET Framework Components?
- What Are the Visual Basic .NET Enhancements?

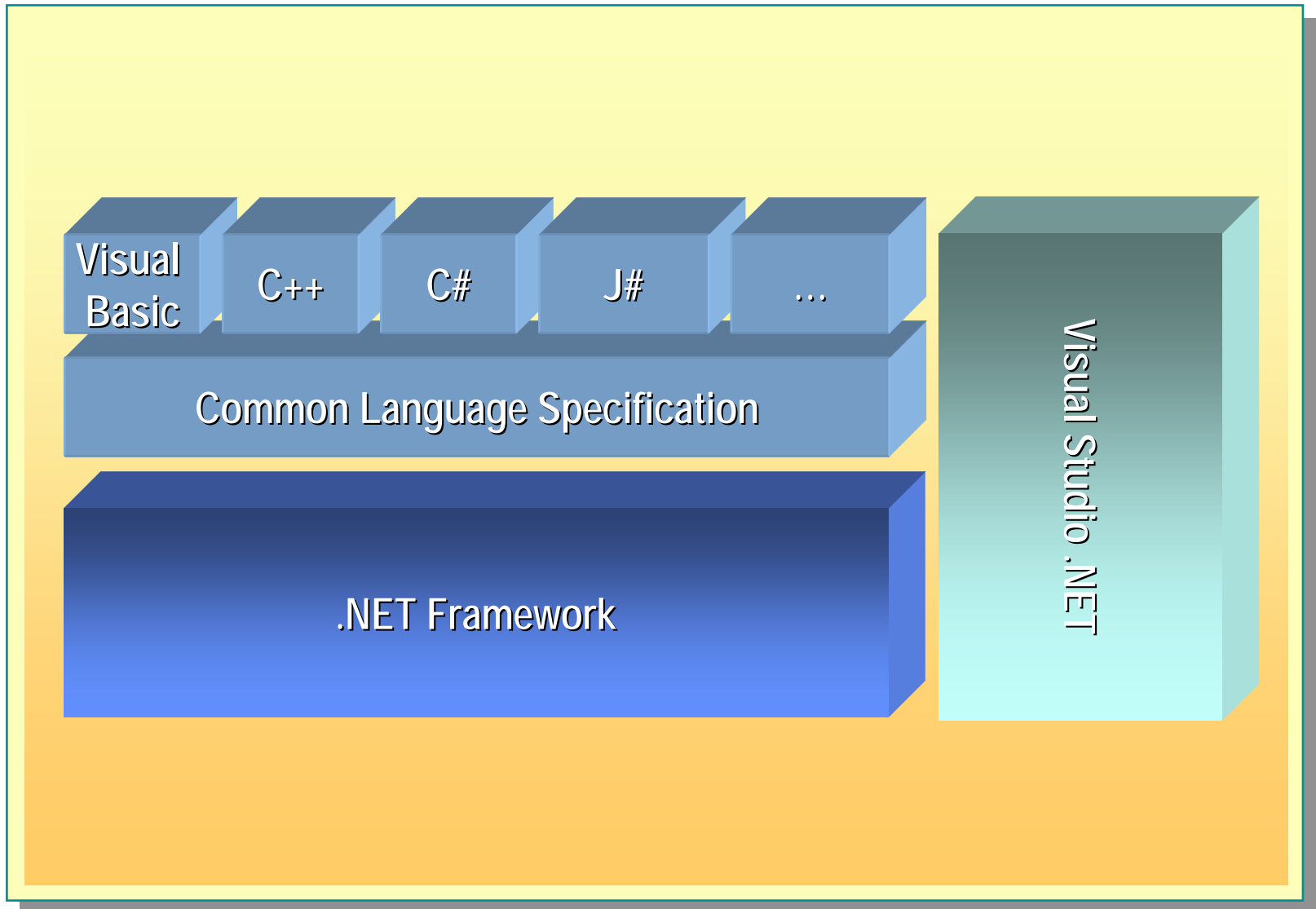
# What Is the Microsoft .NET Platform?



# ◆ What Is the .NET Framework?

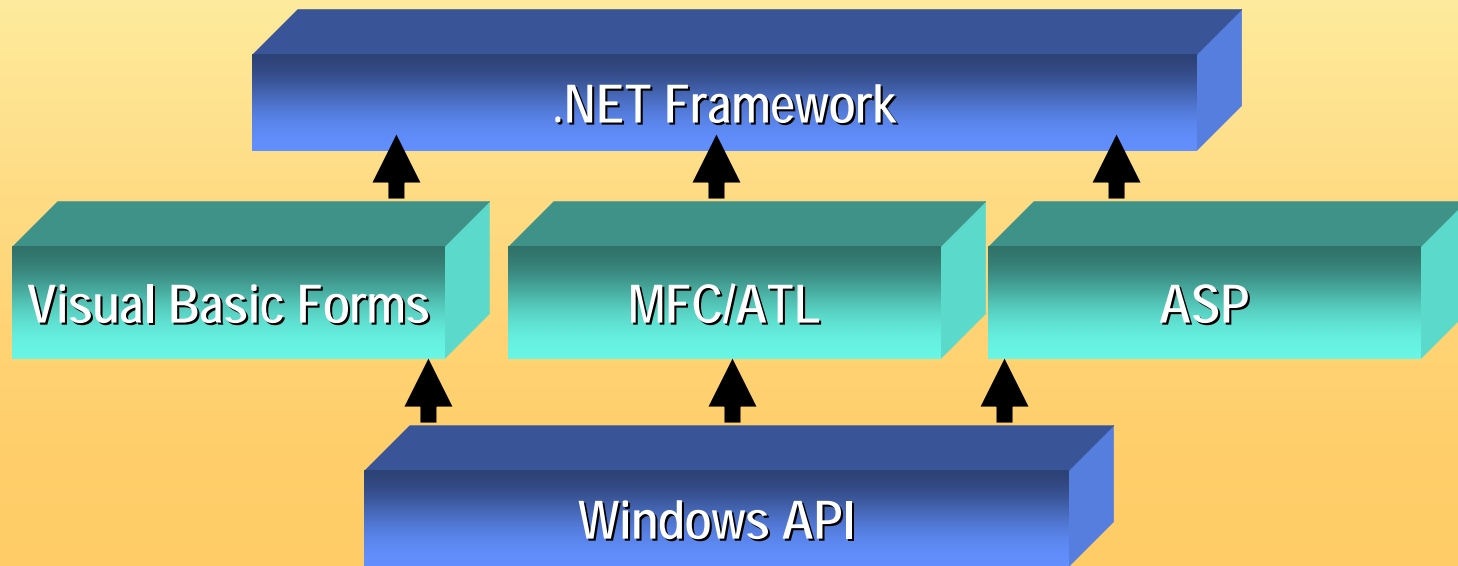
- Overview of the .NET Framework
- Benefits of the .NET Framework
- Languages in the .NET Framework

# Overview of the .NET Framework



# Benefits of the .NET Framework

- Based on Web standards and practices
- Extensible
- Easy for developers to use
- Designed using unified application models



# Languages in the .NET Framework

- **Visual Basic .NET**

New version of Visual Basic with substantial language innovations

- **C# – designed for .NET**

New component-oriented language

- **Managed Extensions to Visual C++**

Provides more power and control

- **J# .NET**

Takes full advantage of the .NET Framework

- **Third-party languages**

# ◆ What Are the .NET Framework Components?

- The .NET Framework Components
- Common Language Runtime
- .NET Framework Class Library
- ADO .NET: Data and XML
- ASP .NET: Web Forms and Services
- User Interface

# The .NET Framework Components

ASP .NET: Web  
Forms & Services

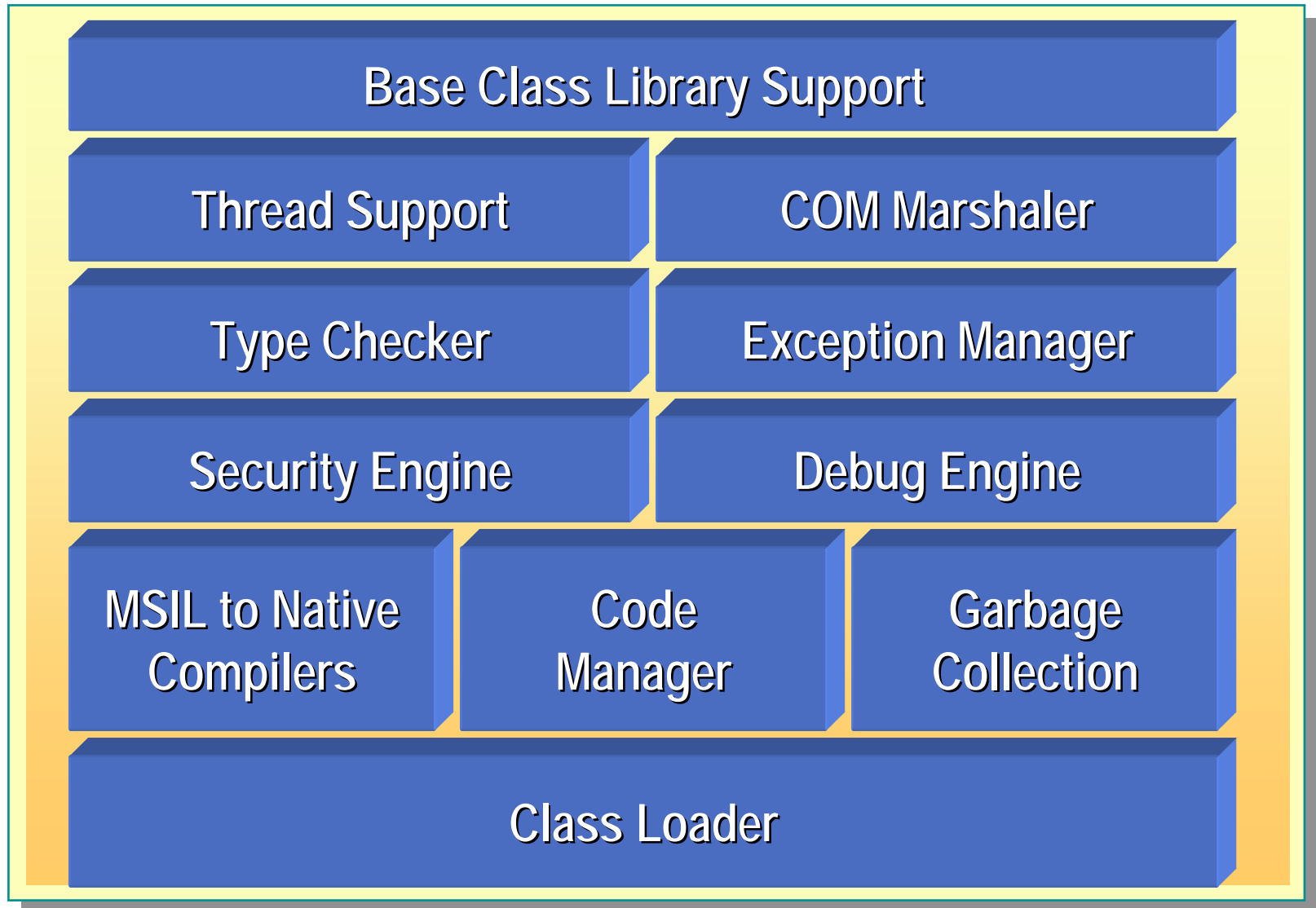
User  
Interface

ADO .NET: Data & XML

.NET Framework Class Library

Common Language Runtime

# Common Language Runtime



# .NET Framework Class Library

System

System.Security

System.Runtime.  
InteropServices

System.Net

System.Text

System.Globalization

System.Reflection

System.Threading

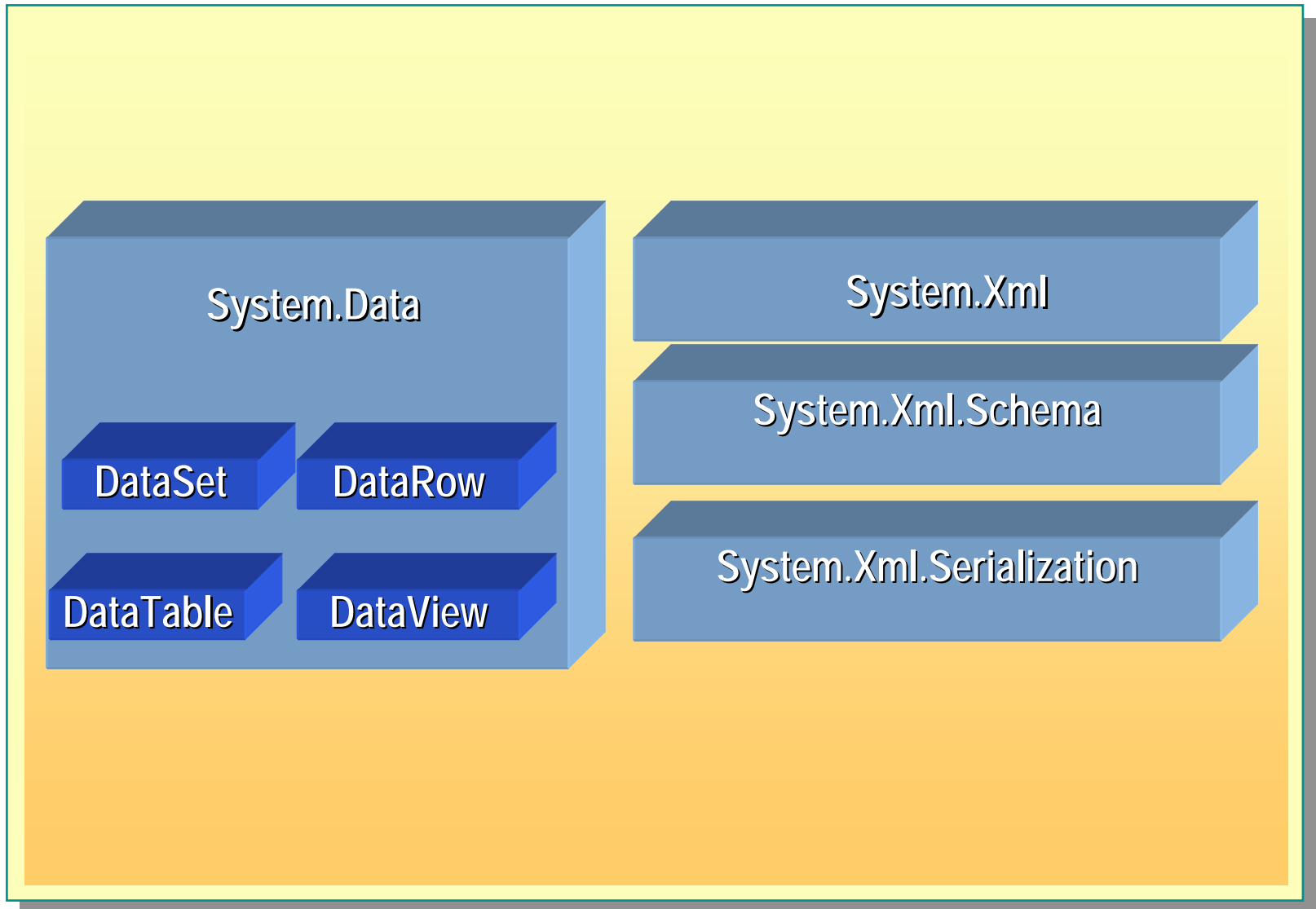
System.Configuration

System.IO

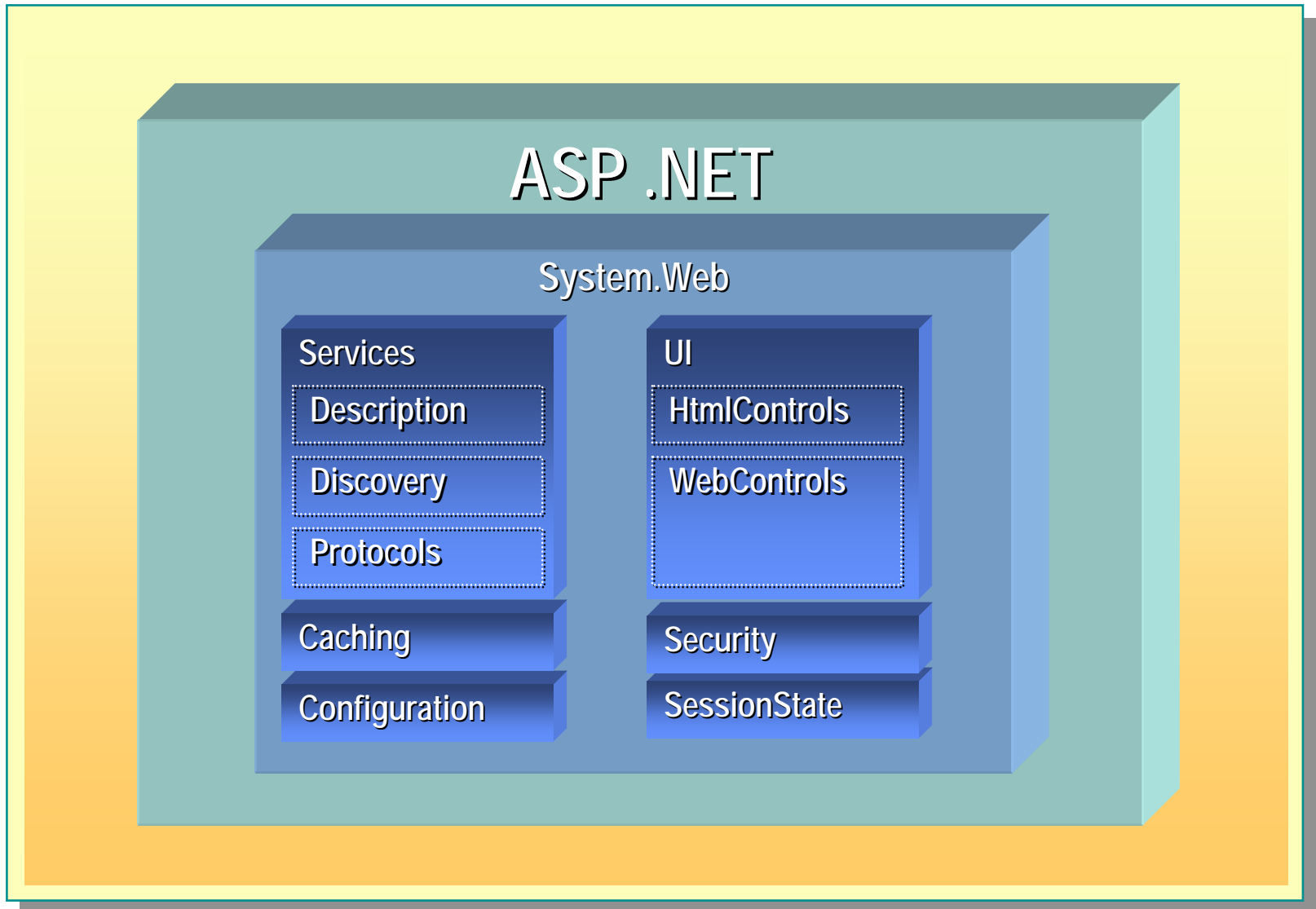
System.Diagnostics

System.Collections

# ADO.NET: Data and XML



# ASP.NET: Web Forms and Services



# User Interface



System.Windows.Forms

System.Drawing

# What Are the Visual Basic .NET Enhancements?

- **Major language enhancements**
  - Enhanced object-oriented support
  - Structured exception handling
- **Full access to the .NET Framework**
  - New threading options
  - Garbage collection
- **Enhanced Web development**
  - Create Web Forms as easily as Windows Forms
  - Create Web Services quickly

# Review

- What Is the Microsoft .NET Platform?
- What Is the .NET Framework?
- What Are the .NET Framework Components?
- What Are the Visual Basic .NET Enhancements?