

# Module 1

## "What is .NET and C#?"



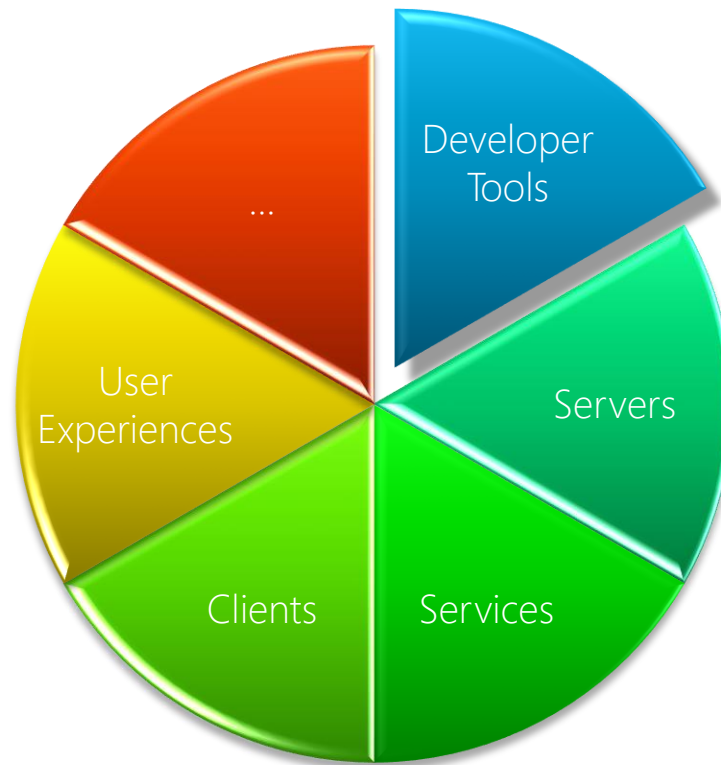
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# Agenda

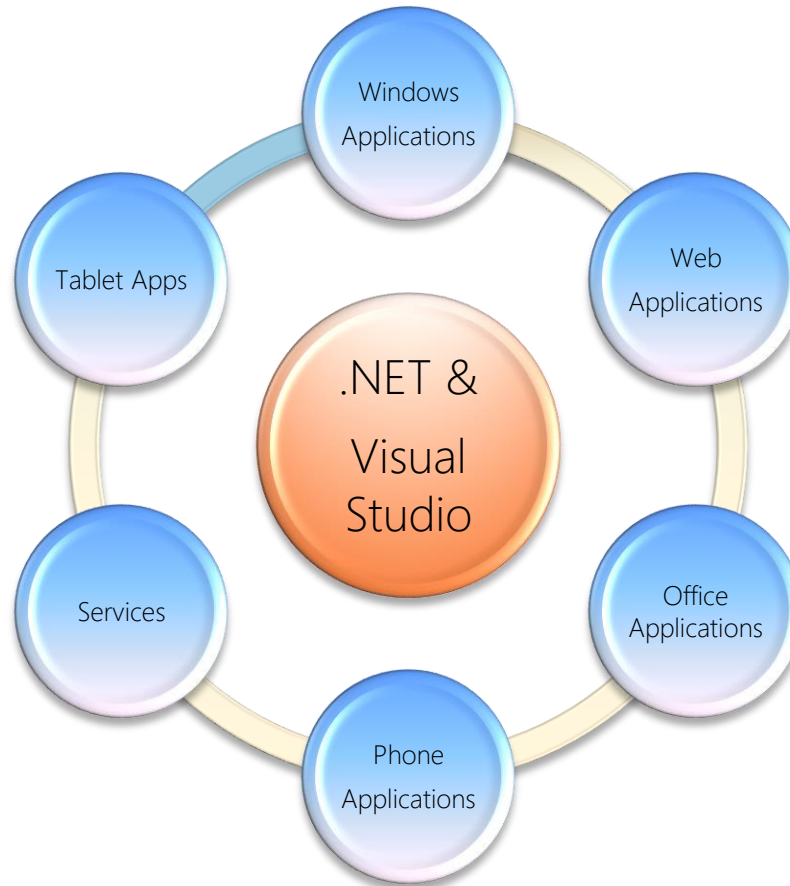
- ▶ **The .NET 4.7 Framework**
- ▶ The Languages of the .NET Framework
- ▶ Discussion and Review



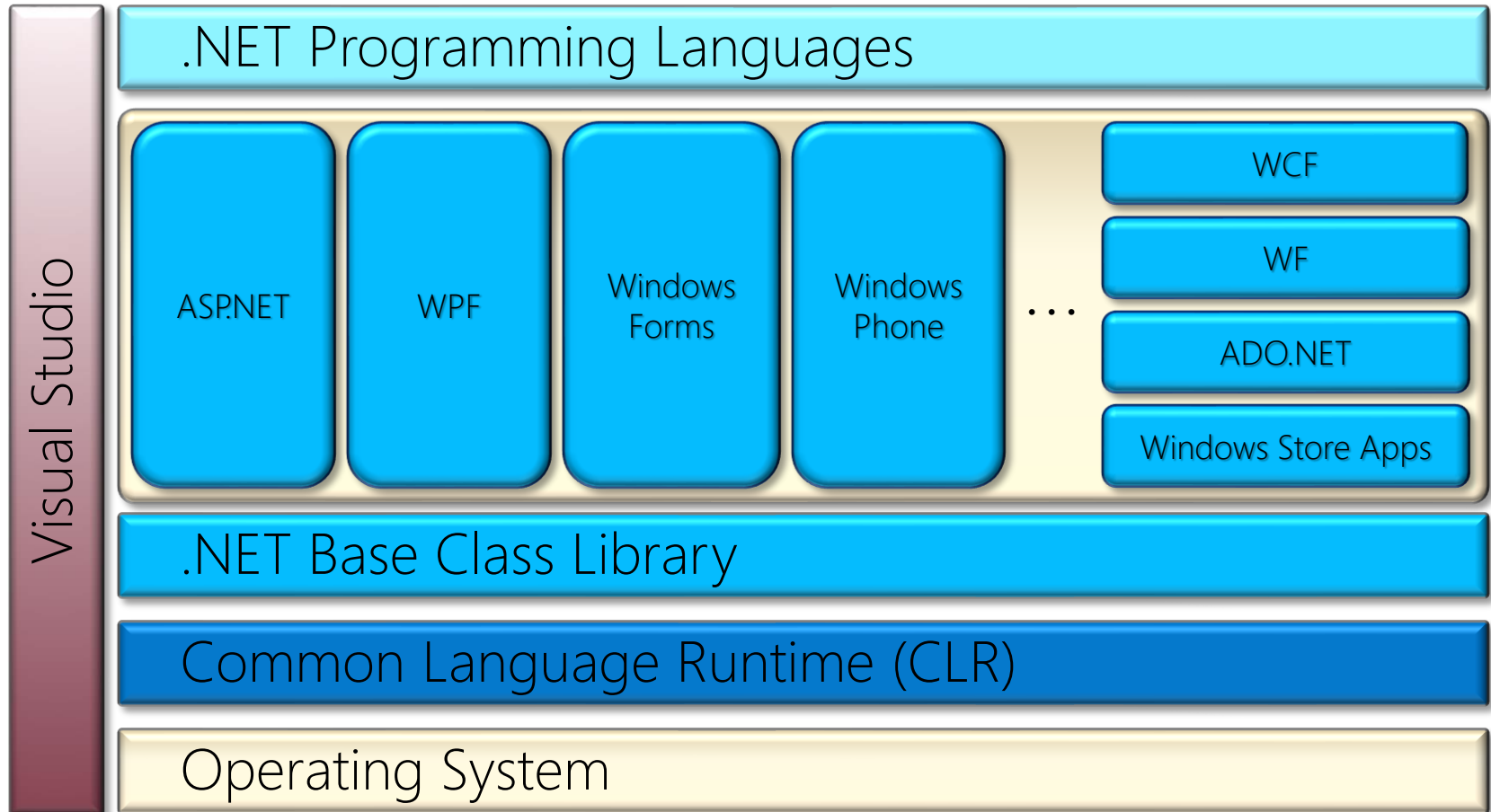
# The .NET Platform



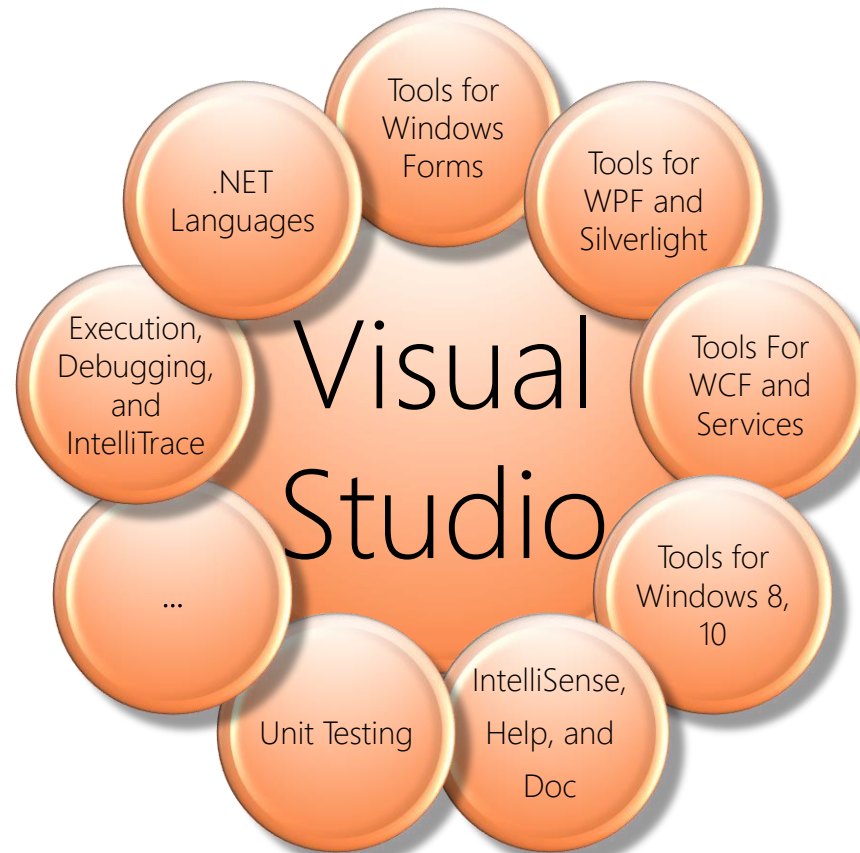
# The .NET Framework



# .NET 4.7 Framework Components



# Visual Studio 2017 Features

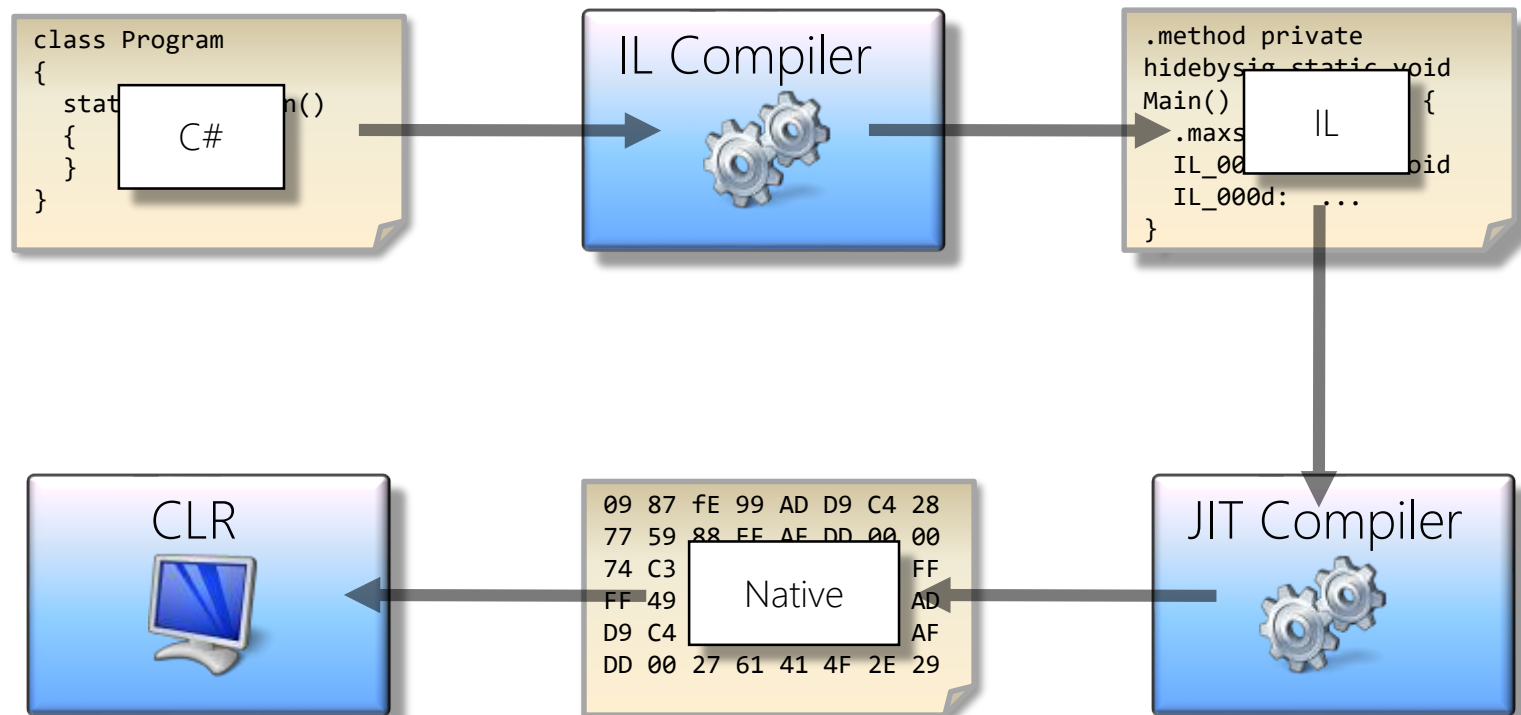


# Agenda

- ▶ The .NET 4.7 Framework
- ▶ **The Languages of the .NET Framework**
- ▶ Discussion and Review

# Compilation and Execution

- The compilation and execution happen in multiple steps





# .NET Programming Languages

C#

VB.NET

C++/CLI

F#

Third-party languages

# The C# Language

- ▶ The language for the .NET Framework!
- ▶ New and very powerful object-oriented language inspired by C, C++, and Java
  - C/C++ syntax
  - Java paradigms
- ▶ Type-safe, easy-to-use, and very elegant
- ▶ Created exclusively for the .NET Framework by Anders Hejlsberg
- ▶ Evolves all the time with the trends of the development community

# The Evolution of .NET and C#

## ► Major .NET and C# releases

Year	.NET	Visual Studio	C#
2002	1.0	Visual Studio .NET	1.0
2003	1.1	Visual Studio 2003	-
2005	2.0	Visual Studio 2005	2.0
2006	3.0	-	-
2007	3.5	Visual Studio 2008	3.0
2010	4.0	Visual Studio 2010	4.0
2012	4.5	Visual Studio 2012	5.0
2013/14	4.5.*	Visual Studio 2013	-
2015/16	4.6.*	Visual Studio 2015	6.0
2017/18	4.7.*	Visual Studio 2017	7.*

# Discussion and Review

- ▶ The .NET 4.7 Framework
- ▶ The Languages of the .NET Framework



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