

C# 7: First Look

INTRODUCING C# 7



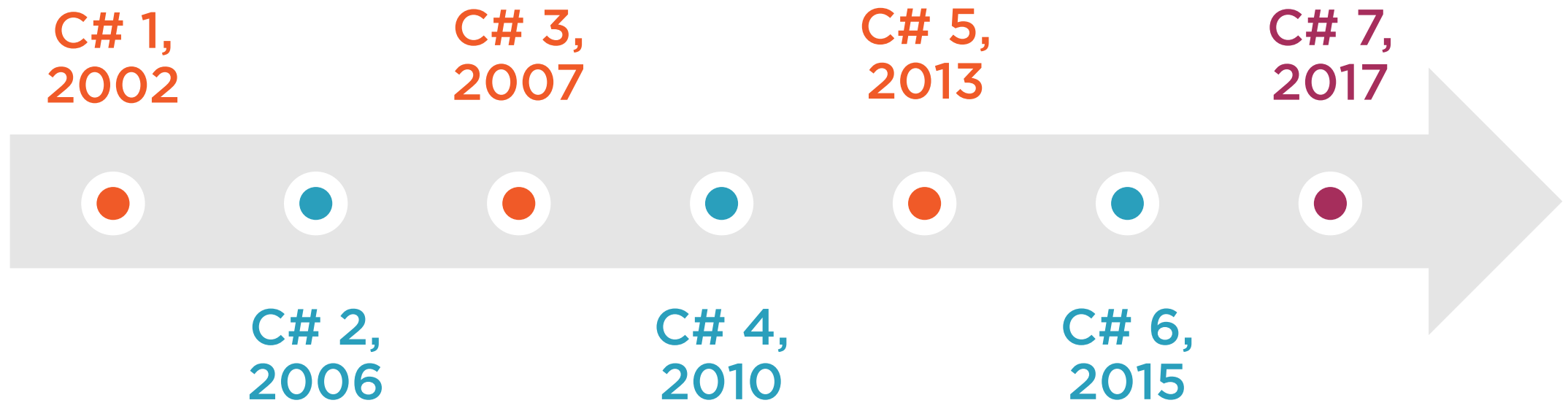
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C# - History



Key Features

Tuples

**Pattern
Matching**

**Ref. Returns,
Exceptions**

Deconstruction

Local Functions

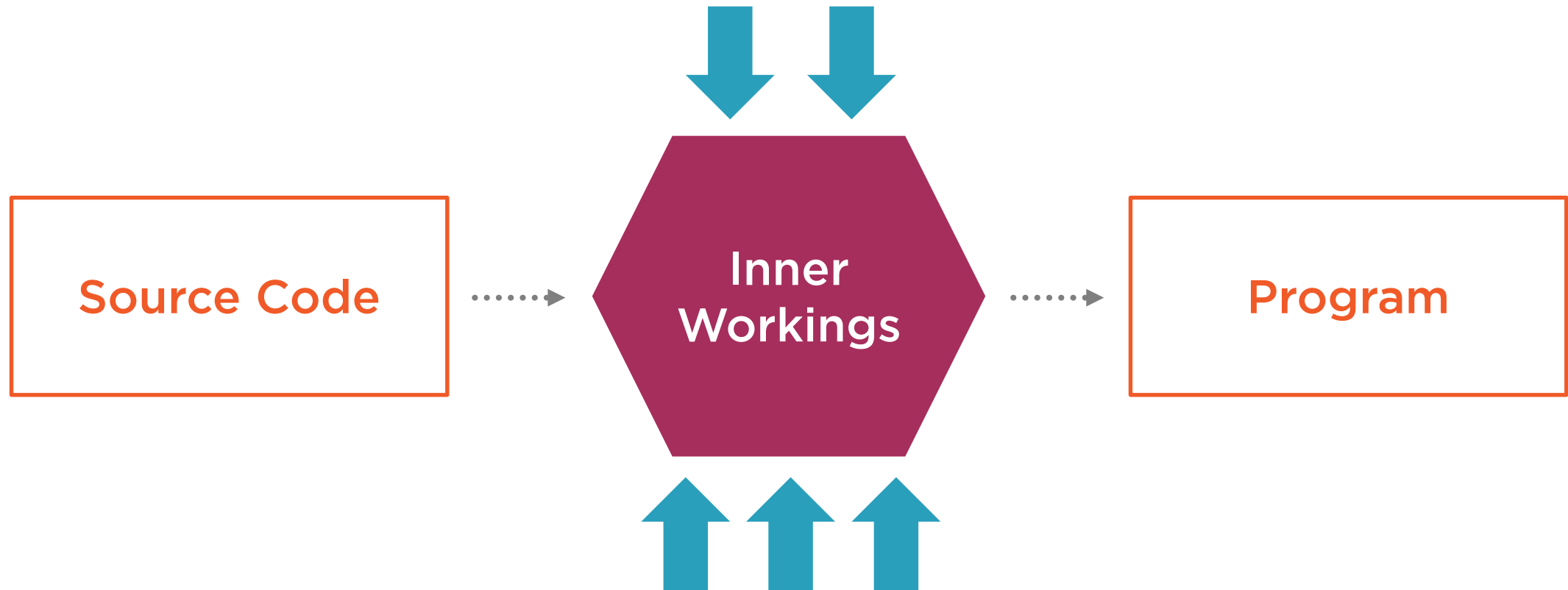
**Out Variables
Literals**



Traditional Understanding...



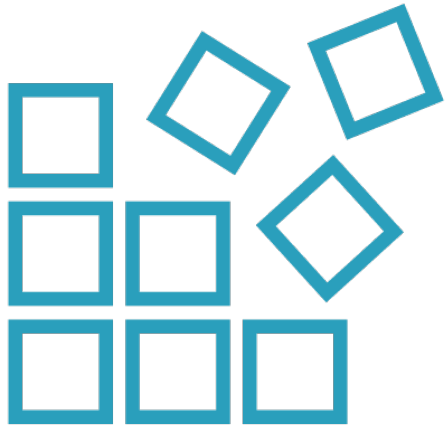
Transparent Compiler (Roslyn)



Intellisense, References, Definitions,
Analysis, Profilers, Code Generation



Compilers as Platforms



Lower barriers to entry

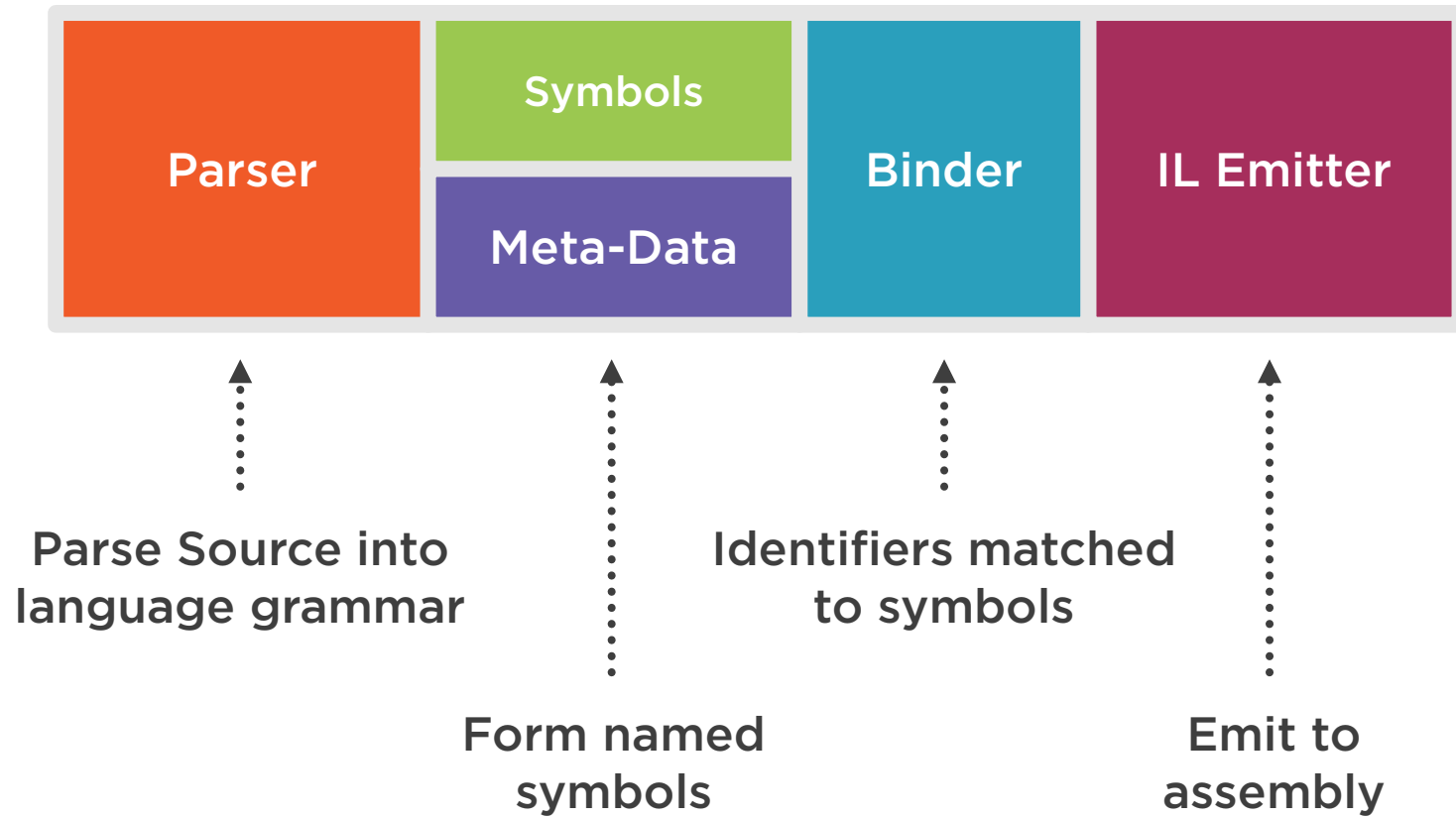
Create code-focused tools

Meta-programming

Code transformation and generation

Interactive C#

Compiler Pipeline



Static Using

```
using static System.Console;
using static System.Math;

class Program
{
    static void Main ()
    {
        WriteLine (Sqrt (3 * 3 + 4 * 4));
    }
}
```

