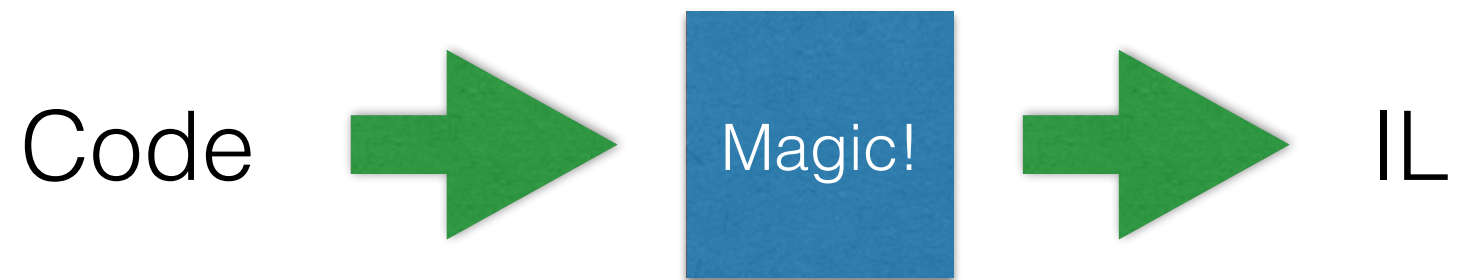# Roslyn

Compiler-as-a-Service

Sander van Vliet
@SanderMvanVliet

The olden days

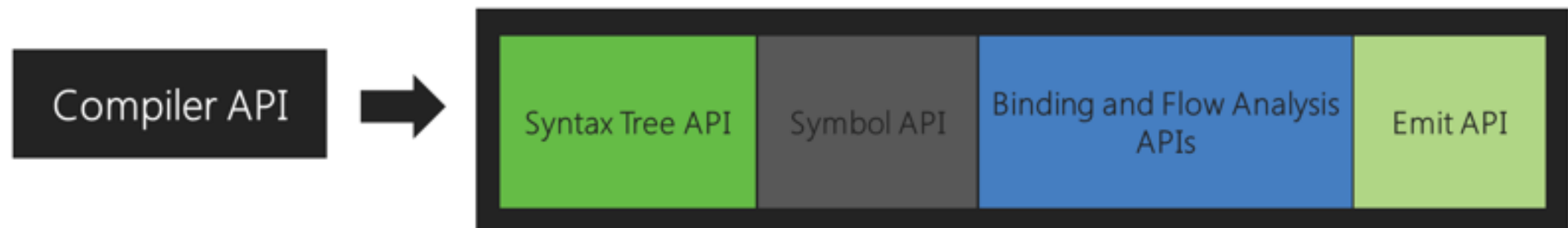- Black-box compiler

Code ➡ Magic! ➡ IL

- Getting info on code is hard

Out with the old, In with the new
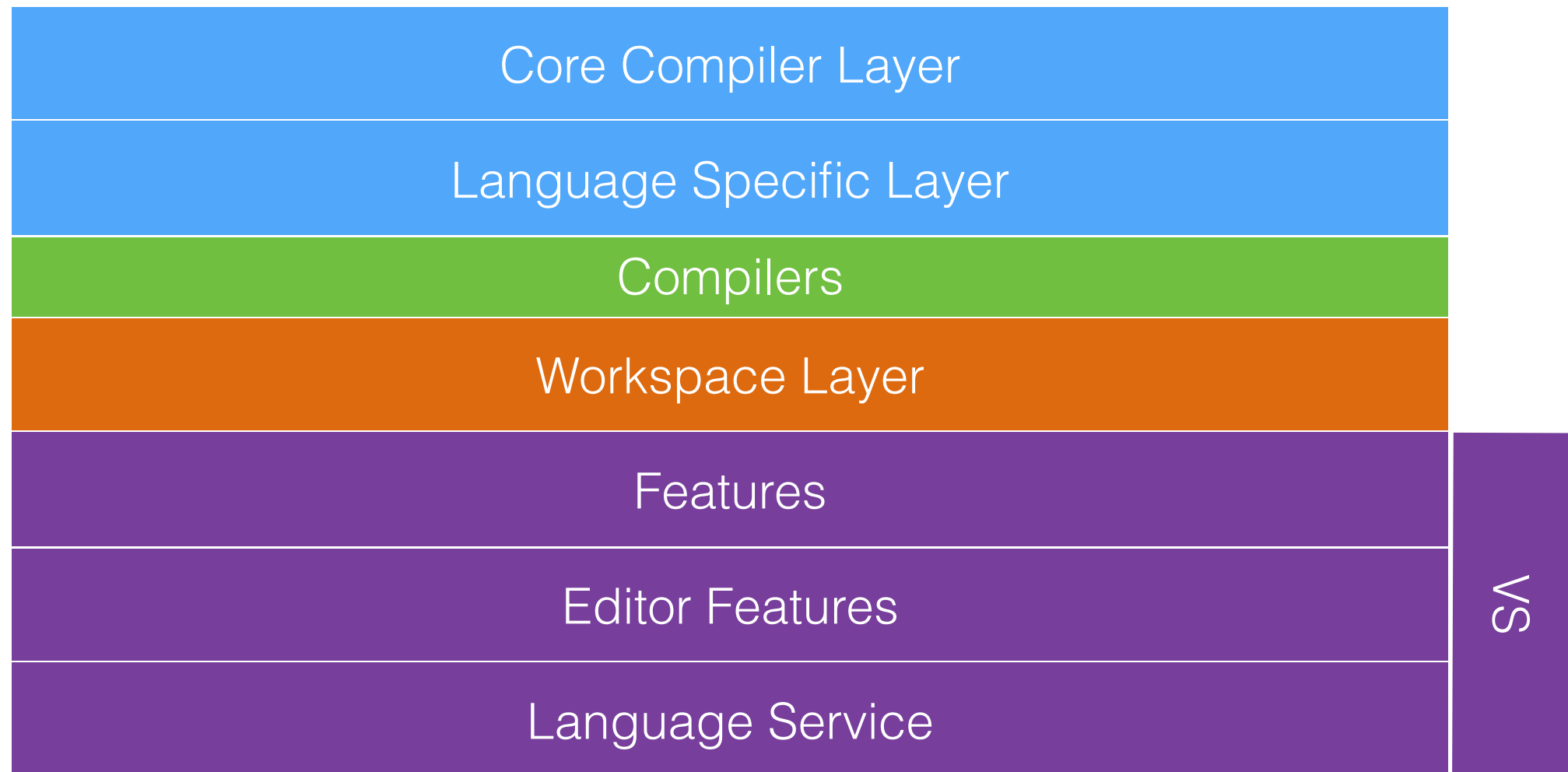
- C# 5.0 / 6.0

- IDE experience

    - IntelliSense

    - Code analysis

- Open Source

Compiler-as-a-Service

- Compiler internals as APIs

Layers of APIs

Core Compiler Layer	
Language Specific Layer	
Compilers	
Workspace Layer	
Features	VS
Editor Features	
Language Service	

How do we benefit?

- Visual Studio experience will become better

  - Better refactoring

  - Better code analysis

  - Better IntelliSense

- New language features

- ASP.Net vNext

  - Save/Refresh

Should I get excited?

- If you just use Visual Studio?

  - Not so much, but at least a little bit

- If you're big on code analysis?

  - Yes, code analysis is a lot easier

- If you're a compiler nerd?

  - Yes!

Demo 1

Code analysis

Demo 2

Exception filters

More information on: https://roslyn.codeplex.com/