copenhagen goto; conference

PROJECT ROSLYN

Brian Rasmussen
Microsoft

INTERNATIONAL SOFTWARE DEVELOPMENT CONFERENCE

gotocon.com

Project Roslyn

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Microsoft

Project Roslyn

Compilers
Rich APIs
Extensibility
REPL
Scripting

CTP

VS2012 + N
where N > 0

Fixing Common Code Problems

Issue

Avoid Count() > 0 on sequence

Fix

Change to Any()

How

Code Issue Provider and Code Action

Demo

Fixing Common Code Problems

Microsoft

Design Characteristics

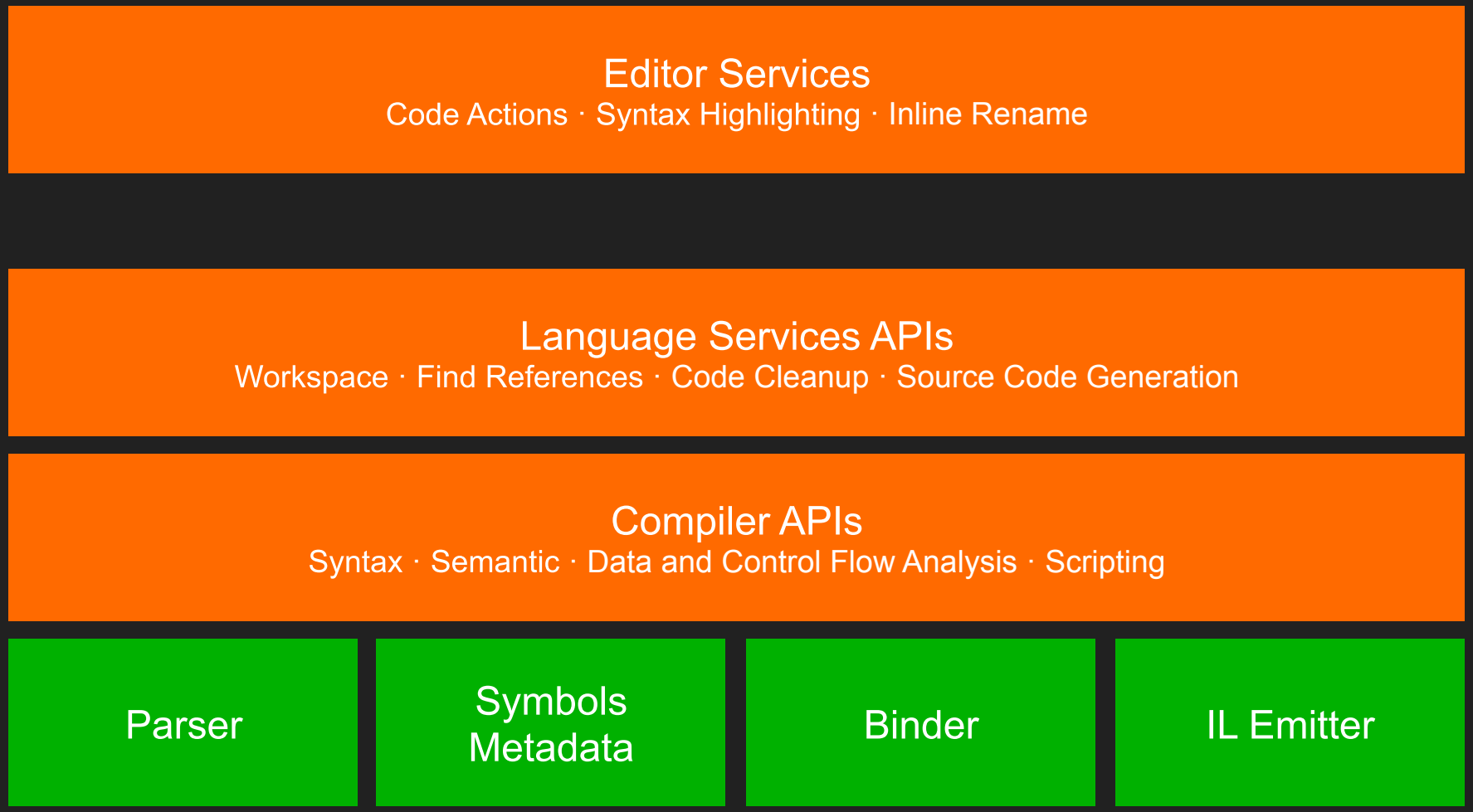
Immutable

Efficient

Complete

Fault Tolerant

Compiler Pipeline and APIs



Exploring Code using the REPL

Diagnostics

Syntactic vs. semantic errors

Workspace

Loading a Solution

Examining Types and Symbols

Looking up the type of a “var”

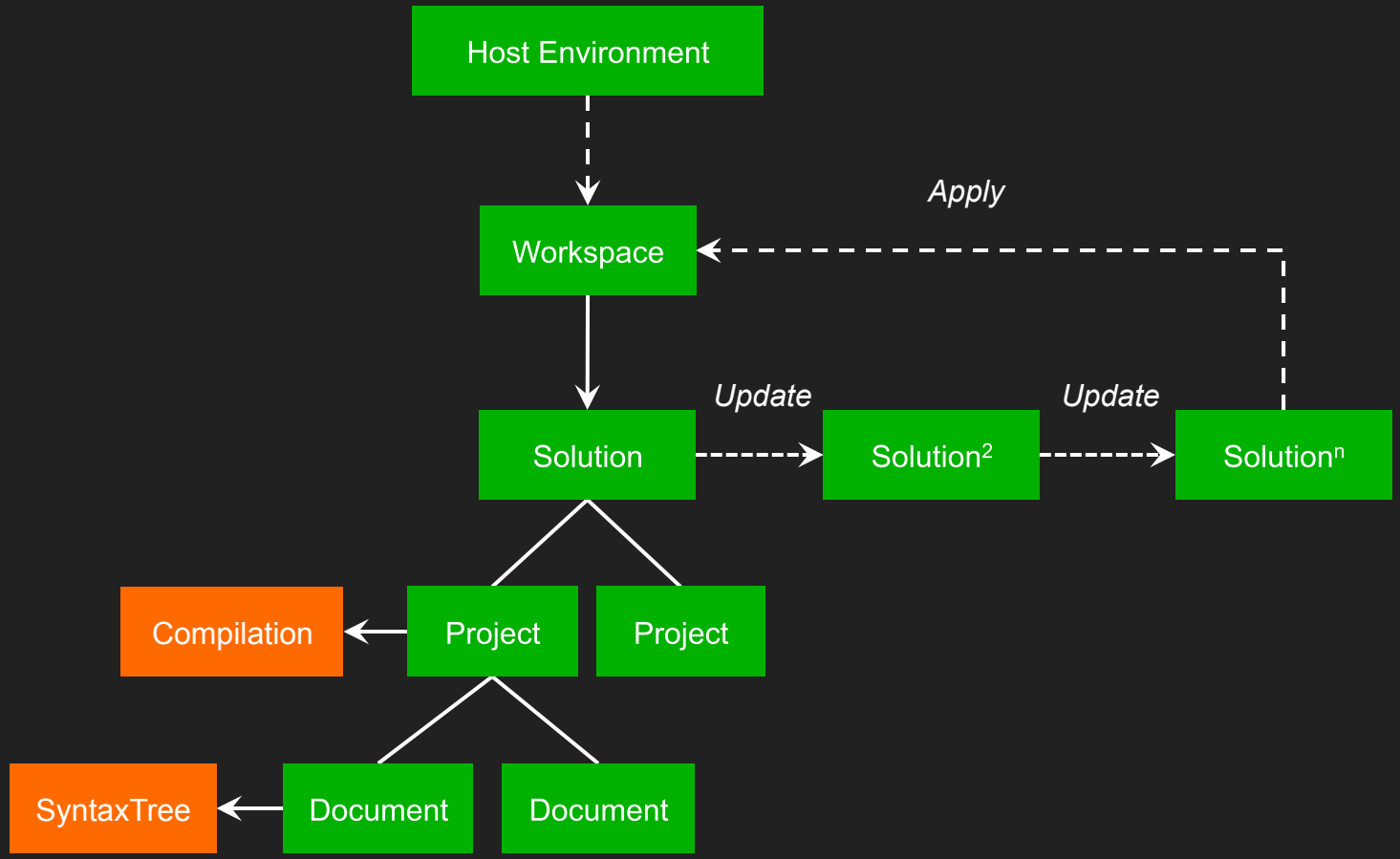
Find References

Demo

The Roslyn APIs and C# Interactive

Microsoft

The Bigger Picture



Application Scripting with C#

Application

XNA Animation

Executing C# Script Code

ScriptEngine and Session

Host Object Model

Interface between application and script

Demo

Scripting

Microsoft

Projects

Compilify.net

Compile and run C# from the browser

Live C# (http://screencast.com/t/dR0qobSLN)

Immediate feedback

LearnParallelism.net

How developers use parallel libraries

Resources

Sites

Roslyn site (http://msdn.microsoft.com/en-us/roslyn)

C# FAQ (http://blogs.msdn.com/b/csharpfaq/)

Channel 9 (http://channel9.msdn.com/search?term=roslyn)

Questions

Roslyn CTP (http://social.msdn.microsoft.com/forums/en-us/roslyn)

Stackoverflow.com (http://stackoverflow.com/questions/tagged/roslyn*)

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Thank You!

Q&A

CTP

Feedback

Have Fun!

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