



Jiří Činčura | @cincura\_net |



Using Roslyn to improve your codebase

# Before

Blackbox

Compiler vs. Visual Studio language services

Written in unmanaged code 😊

Refactorings, renames, references, ...

# Roslyn

Next (currently last 😊) generation C# (etc.) compiler

Open platform

i.e. access to syntax and semantic models

Rich API

Open source

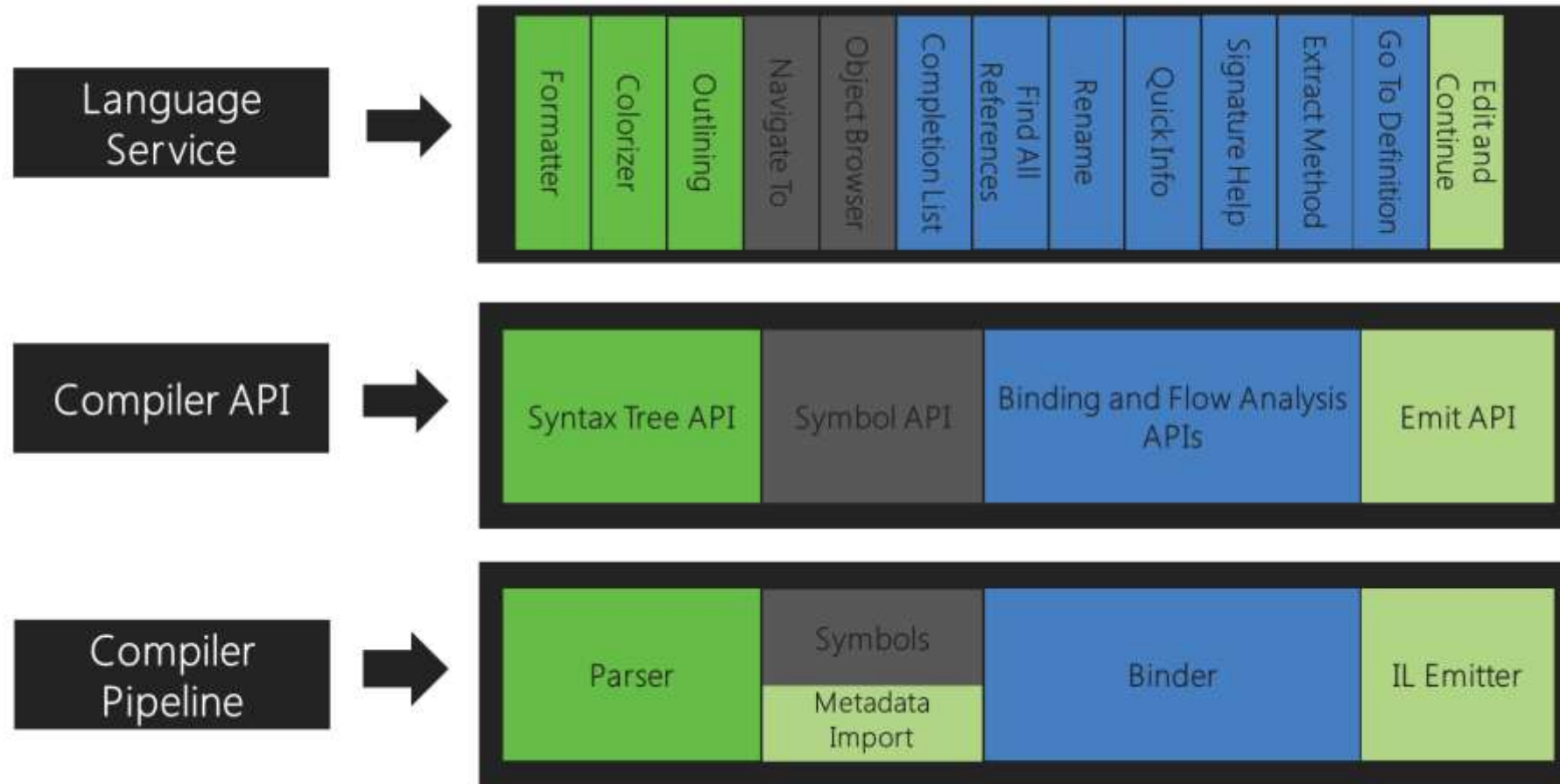


# Roslyn

Almost completely immutable

Lazy initialization

Lock-free



# Roslyn

## Syntax Tree API

lexical and syntax information

## Symbol API

i.e. Find All References

## Binding and analysis API

i.e. casting, name conflicts

## Emit API

# Demo





<https://roslynquoter.azurewebsites.net/>

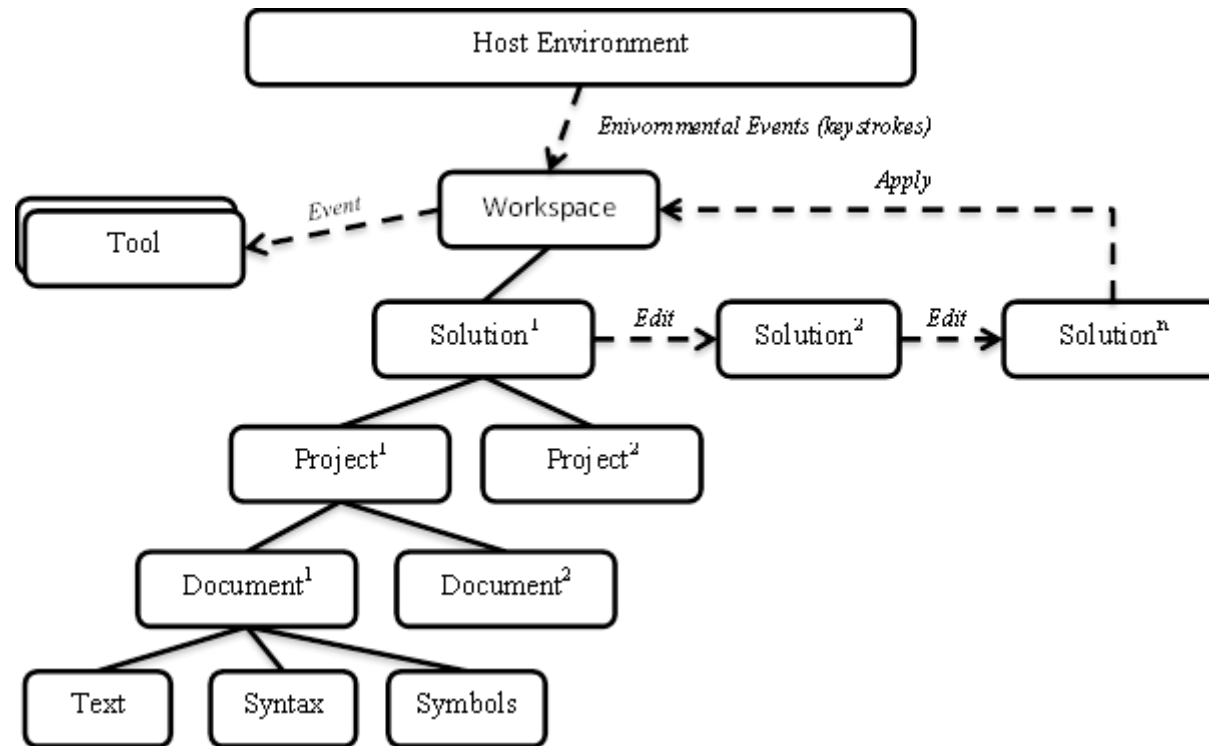
<https://sharplab.io/>





<https://source.dot.net/>

# Workspaces



# Demo



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