

Using Roslyn to improve your codebase

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Before



Blackbox

Compiler vs. Visual Studio language services

Written in unmanaged code ©

Refactorings, renames, references, ...

Roslyn



Next (currently last ©) generation C# (etc.) compiler Almost 10 years

Open platform

i.e. access to syntax and semantic models

Rich API

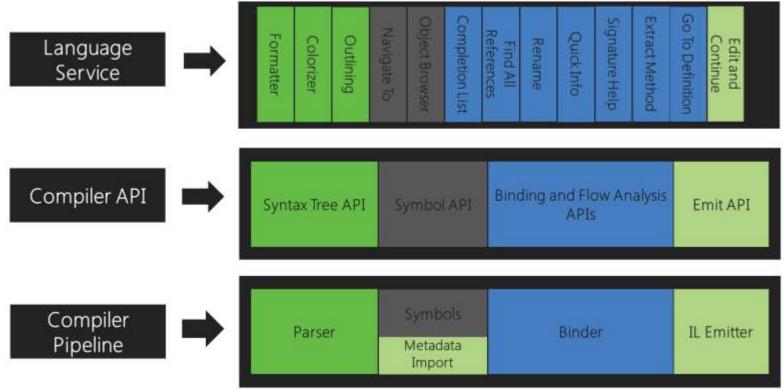
Open source

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



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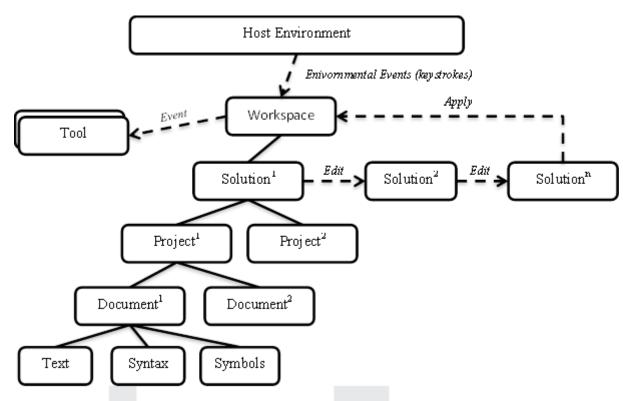
Tools



https://roslynquoter.azurewebsites.net/ https://sharplab.io/

Workspaces







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Questions?

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