

Personal Info

- http://www.jasonbock.net
- https://www.twitter.com/jasonbock
- https://www.github.com/jasonbock
- https://www.youtube.com/c/JasonBock
- jason.r.bock@outlook.com



Downloads

https://github.com/JasonBock/WhatsNewInCSharp10 https://github.com/JasonBock/Presentations



Overview

- Language Evolution
- C# 10 Features
- Future Directions

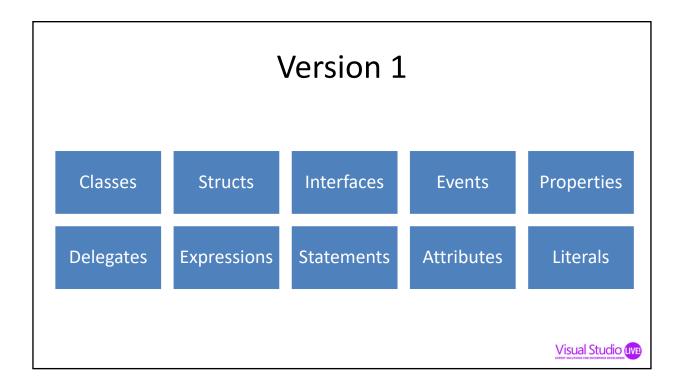
Remember...
https://github.com/JasonBock/WhatsNewInCSharp10
https://github.com/JasonBock/Presentations

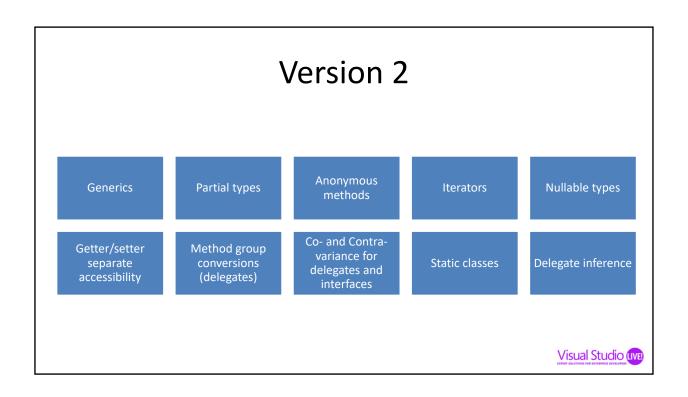


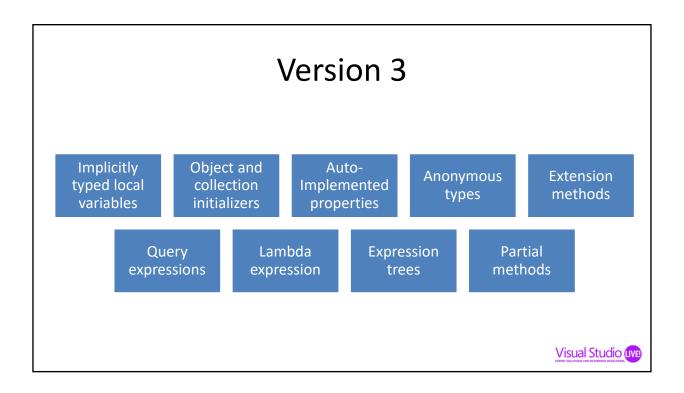
LANGUAGE EVOLUTION

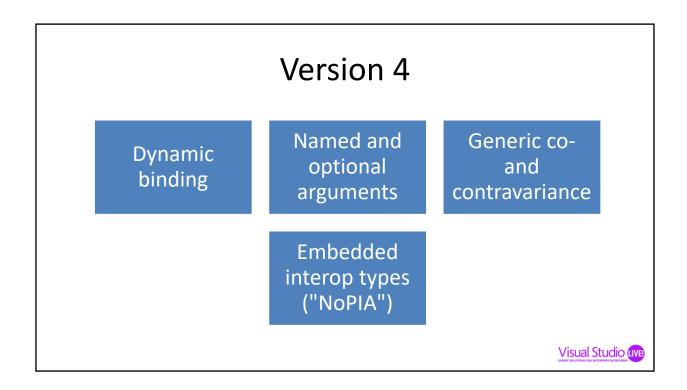












Version 5

Asynchronous methods

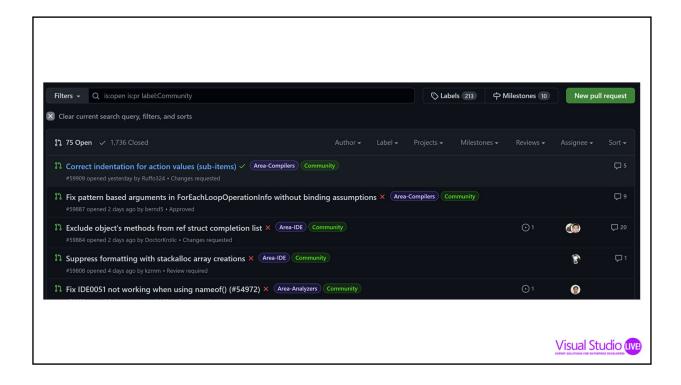
Caller info attributes

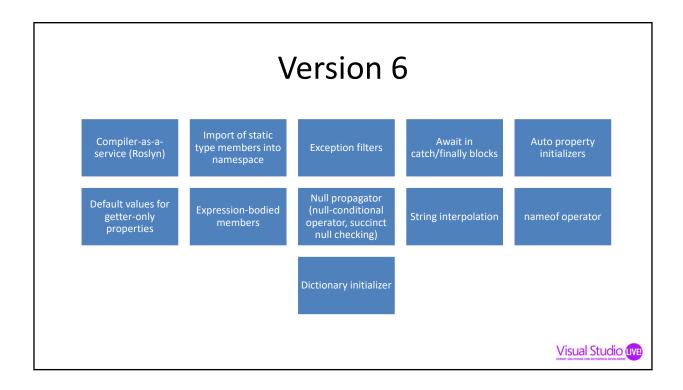


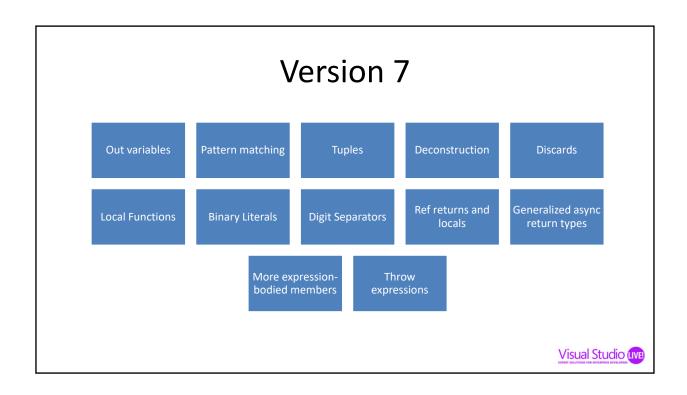


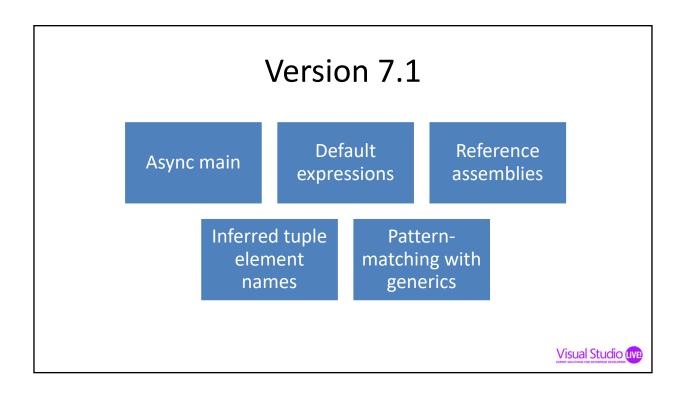
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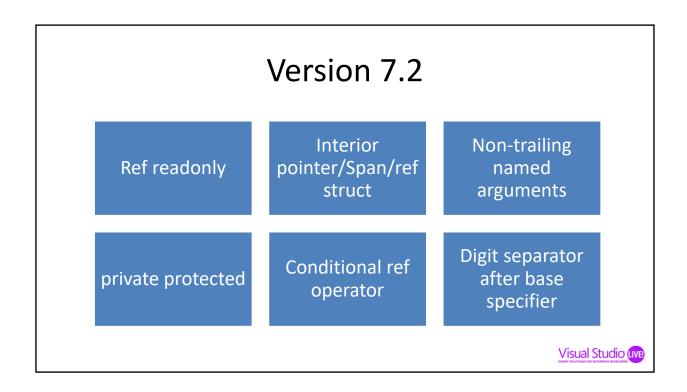


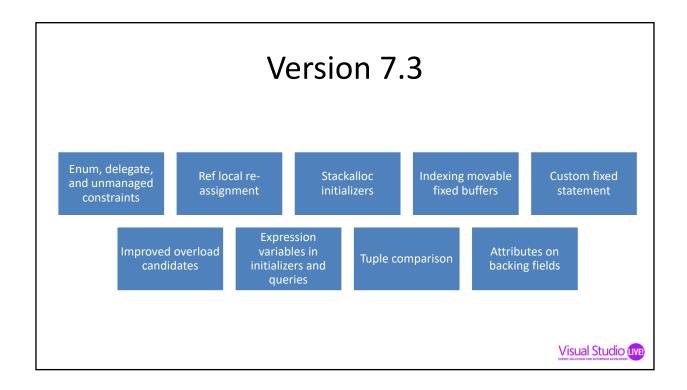


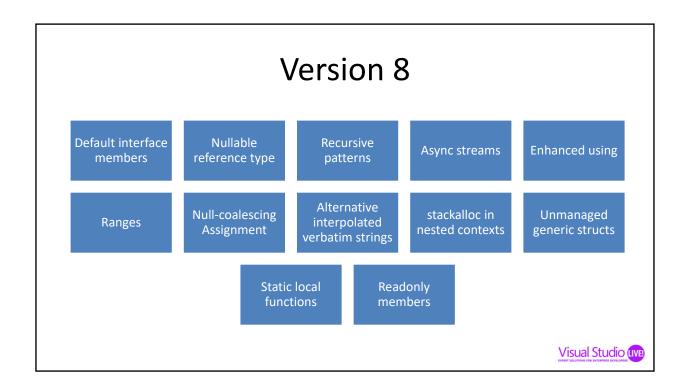






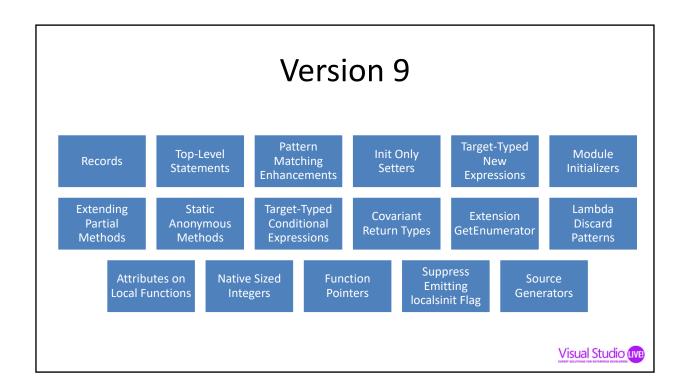


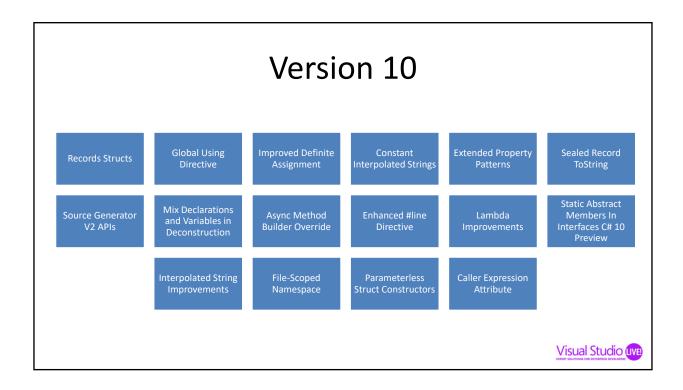




Many of the C# 8.0 language features have platform dependencies. Async streams, indexers and ranges all rely on new framework types that will be part of .NET Standard 2.1. As Immo describes in his post Announcing .NET Standard 2.1, .NET Core 3.0 as well as Xamarin, Unity and Mono will all implement .NET Standard 2.1, but .NET Framework 4.8 will not. This means that the types required to use these features won't be available on .NET Framework 4.8. Likewise, default interface member implementations rely on new runtime enhancements, and we will not make those in the .NET Runtime 4.8 either.

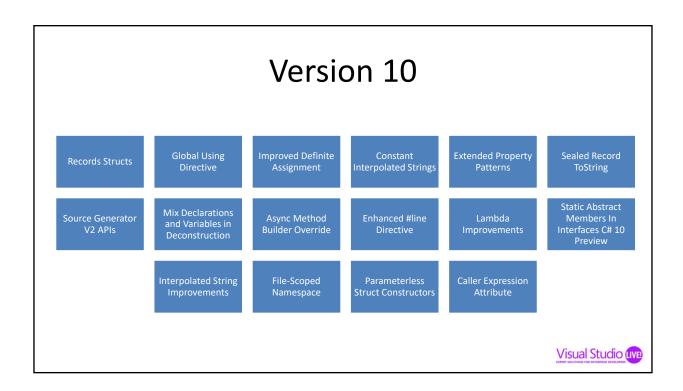
For this reason, using C# 8.0 is only supported on platforms that implement .NET Standard 2.1. The need to keep the runtime stable has prevented us from implementing new language features in it for more than a decade. With the side-by-side and open-source nature of the modern runtimes, we feel that we can responsibly evolve them again, and do language design with that in mind. Scott explained in his Update on .NET Core 3.0 and .NET Framework 4.8 that .NET Framework is going to see less innovation in the future, instead focusing on stability and reliability. Given that, we think it is better for it to miss out on some language features than for nobody to get them.





DEMO: C# 10 FEATURES



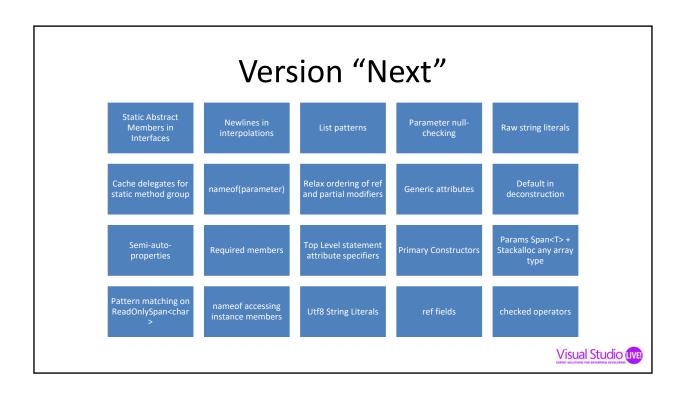


FUTURE DIRECTIONS



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DEMO: C# "NEXT" FEATURES



