

Going open – open to change

Open source

Runtime, framework, compiler

Cross platform

Runs pretty much anywhere

Open language API "Roslyn"

Syntax trees and more

Cross IDE

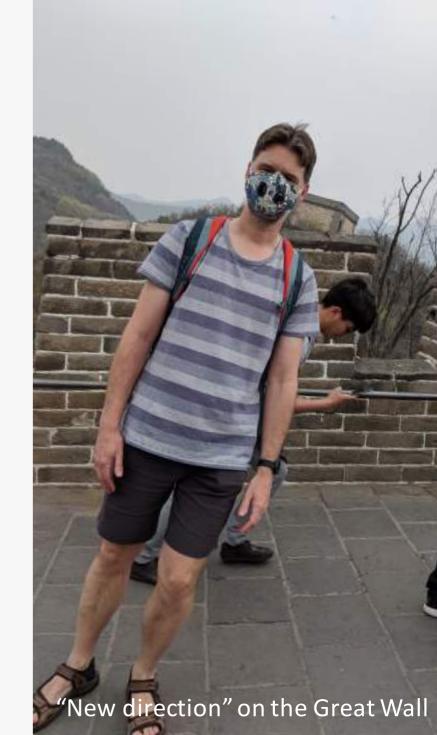
OmniSharp

Open design

Language design is a conversation

Open to change

Let's never be afraid to explore new directions



LINQ – Language Integrated Query

```
from c in customers
where c.City == "Beijing"
select c.Name;

from c in customers
where c.City == "Beijing"
where c.City == "Beijing"
from o in c.Orders
select (c.Name, o.Price);

select(p => c.City == "Beijing")
.Select(many(c => c.Orders, (c, o) => new { c, o })
.Select(p => (p.c.Name, p.o.Price));
```

```
void PlaySongs(int[] ids)
   foreach (var id in ids)
        try
            var data = service.GetEncodedData(id);
            var song = Decode(data);
            Play(song);
        catch (Exception e) { /* just skip the song */ }
```

```
Task PlaySongsAsync(int[] ids)
   foreach (var id in ids)
        try
            var data = service.GetEncodedData(id);
            var song = Decode(data);
            Play(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
   foreach (var id in ids)
        try
            var data = service.GetEncodedData(id);
            var song = Decode(data);
            Play(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
   foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = Decode(data);
            Play(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
   foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = Decode(data);
            await PlayAsync(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
    foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = await Task.Run(() => Decode(data));
            await PlayAsync(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
    Task currentlyPlaying = Task.FromResult(true);
    foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = await Task.Run(() => Decode(data));
            await PlayAsync(song);
        catch (Exception e) { /* just skip the song */ }
```

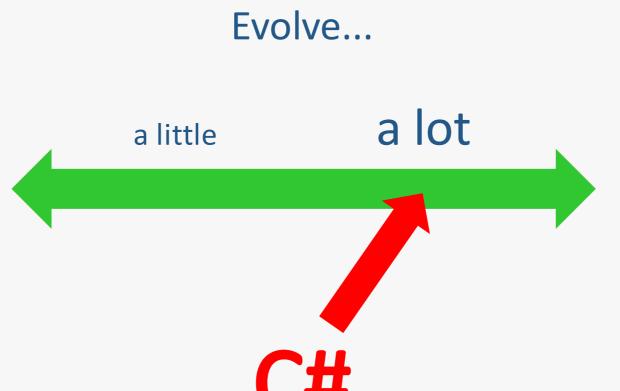
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    foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = await Task.Run(() => Decode(data));
            await currentlyPlaying;
            currentlyPlaying = PlayAsync(song);
        catch (Exception e) { /* just skip the song */ }
```

```
async Task PlaySongsAsync(int[] ids)
    Task currentlyPlaying = Task.FromResult(true);
    foreach (var id in ids)
        try
            var data = await service.GetEncodedDataAsync(id);
            var song = await Task.Run(() => Decode(data));
            await currentlyPlaying;
            currentlyPlaying = PlayAsync(song);
        catch (Exception e) { /* just skip the song */ }
    try { await currentlyPlaying; } catch (Exception e) { }
```

C# evolution – pace



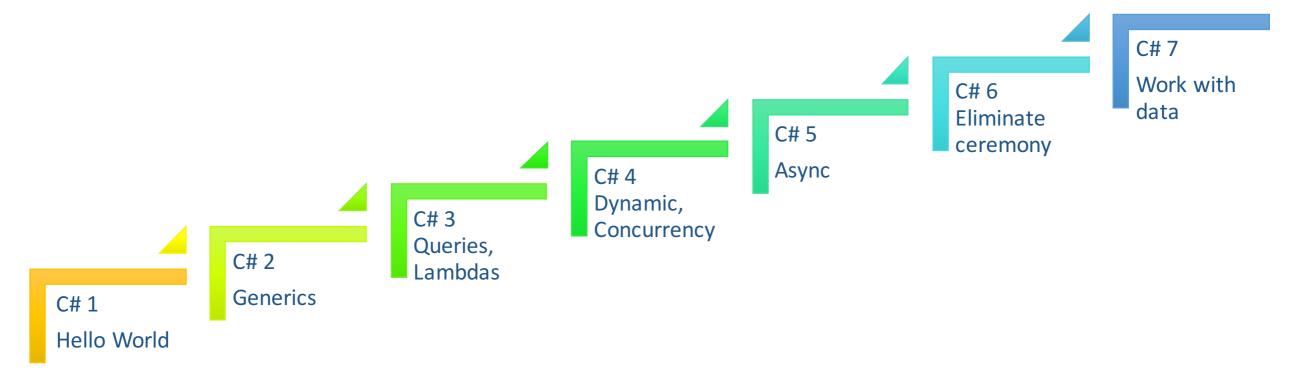
Stagnation





Explosion

C# evolution – history



Open for business

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Syntax trees and more

Cross IDE

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Open mind

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