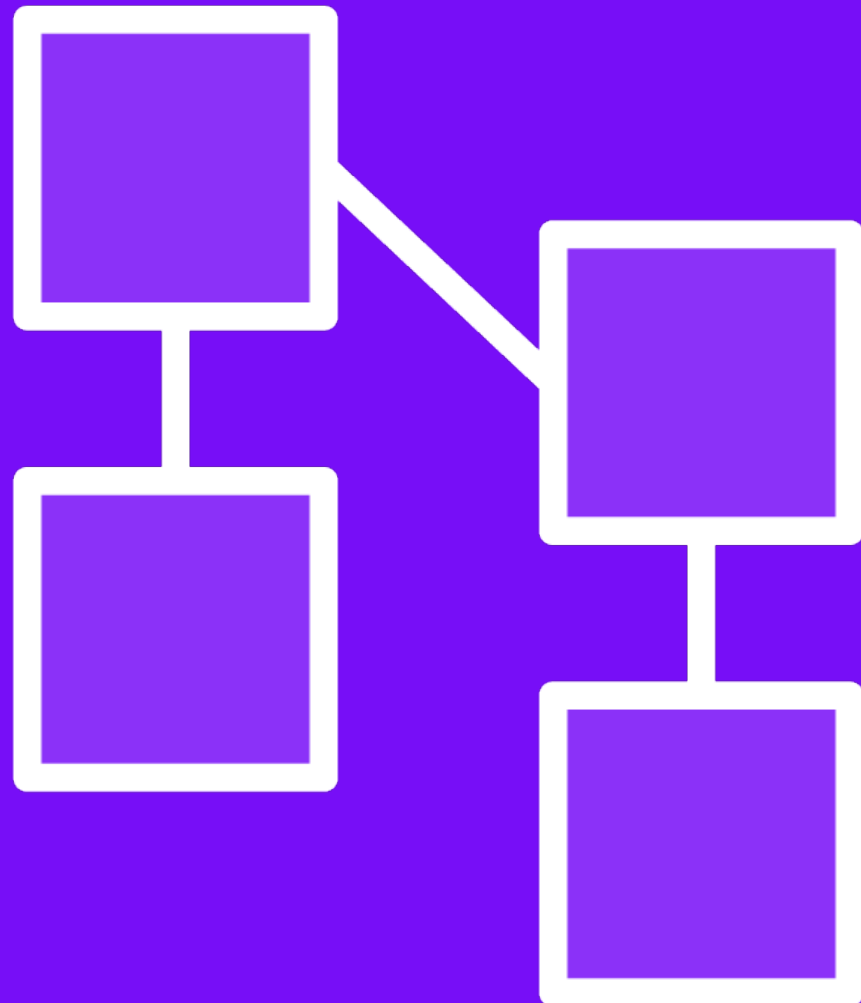# Next Steps in C#

Gill Cleeren

CTO Xebia Microsoft Services Belgium
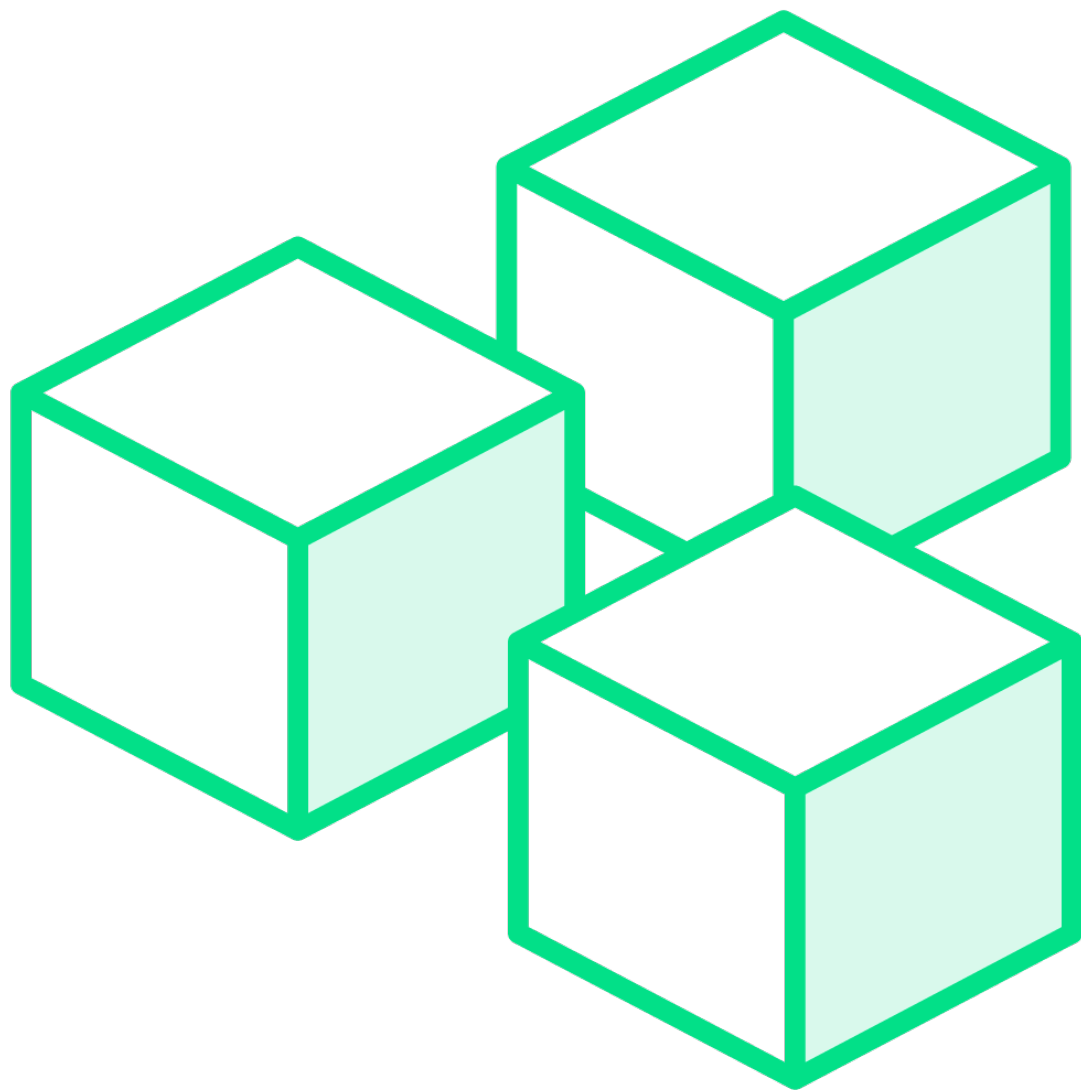
@gillcleeren

Object-orientation

In-depth understanding of OO

Design of a real system

Collections and Generics

Collection types
- Different types to work with sets of data
- Generic collections including List<T>

Generics allow us to write code that works with several types
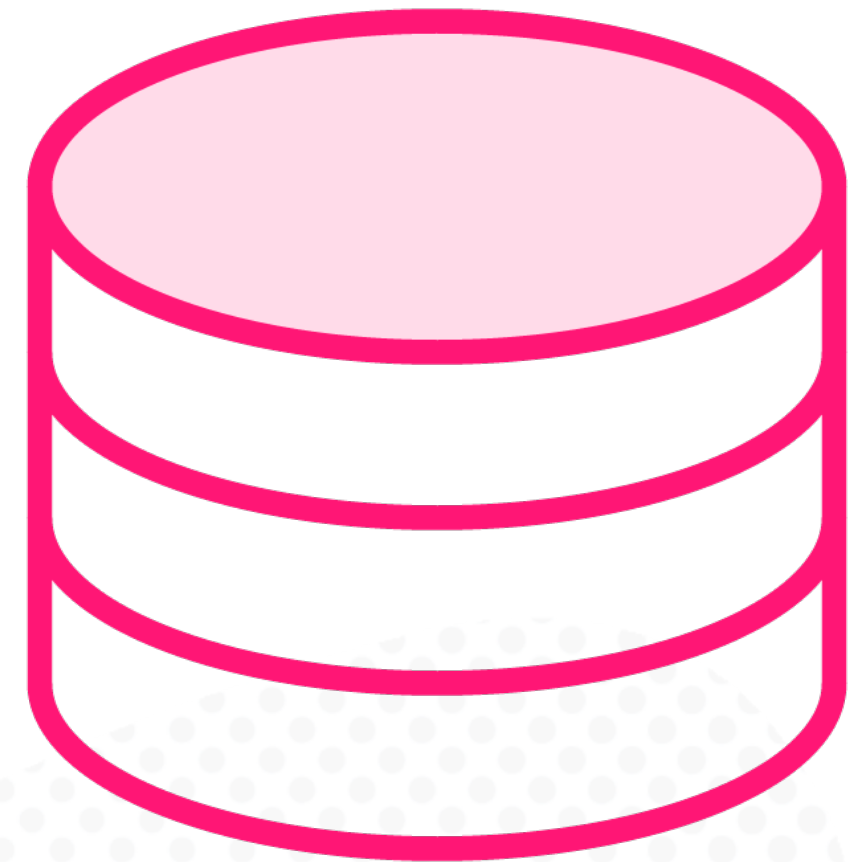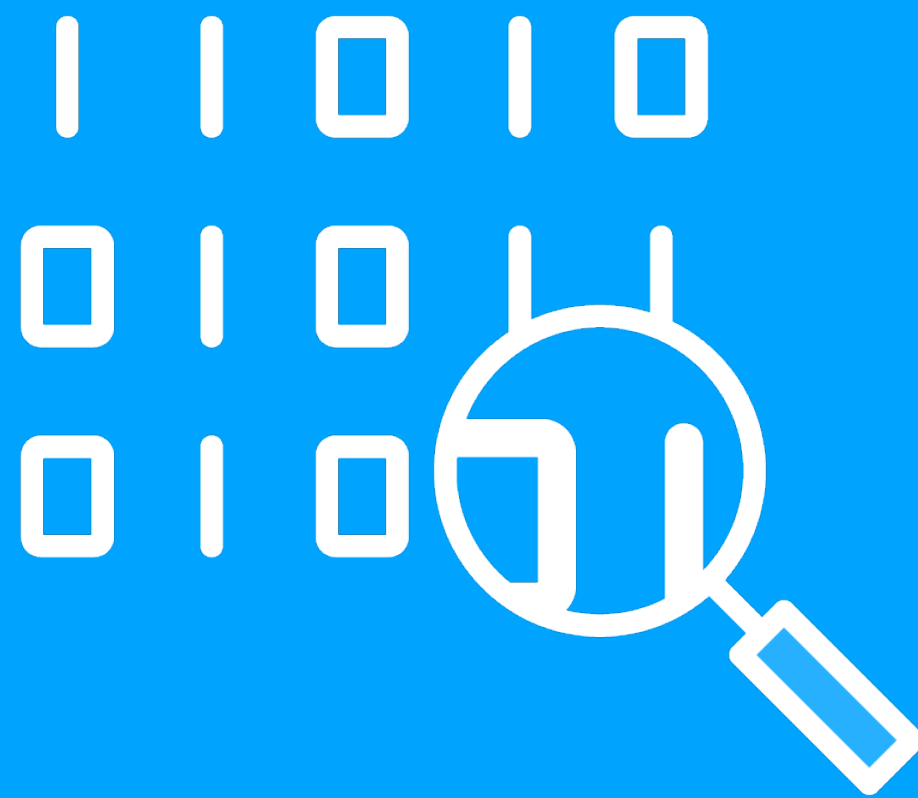- List<T> where T is the type parameter

Working with data in a database

Connecting with a database locally or in the cloud

ADO.NET or Entity Framework Core

Querying or editing data

LINQ

Language-Integrated Query Language

C# feature to query collections

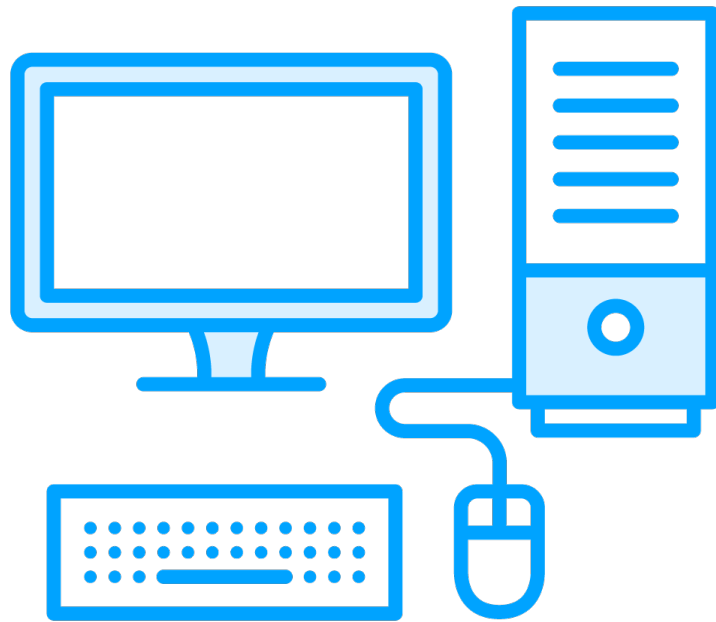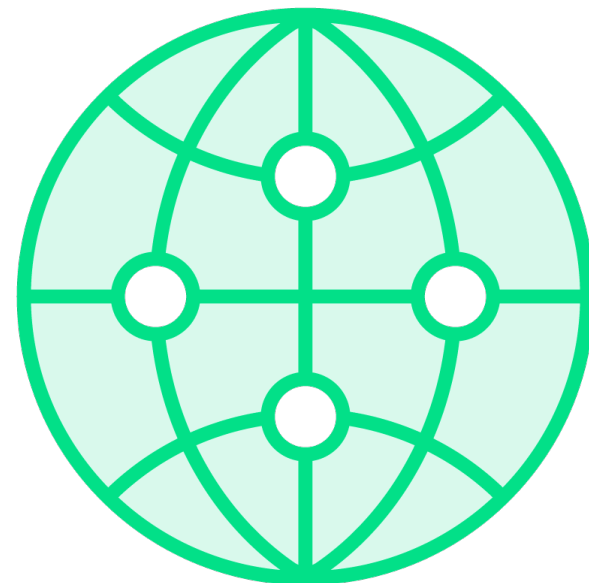**Can be used on collections or in combination with database**

Async coding

- Avoid blocking the application while code runs
- Used often in combination with file access, external API access...
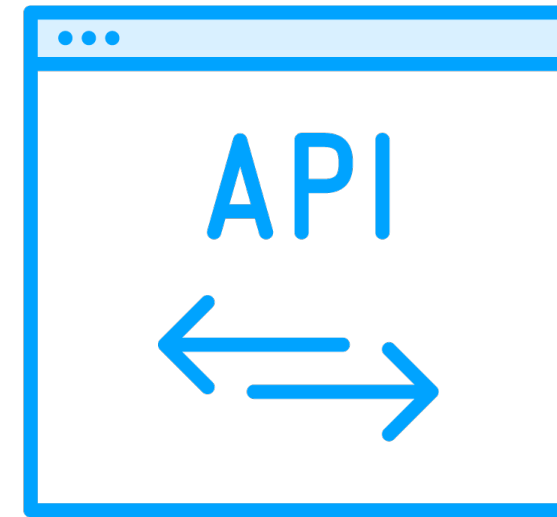- Built-in to C# using async/await pattern
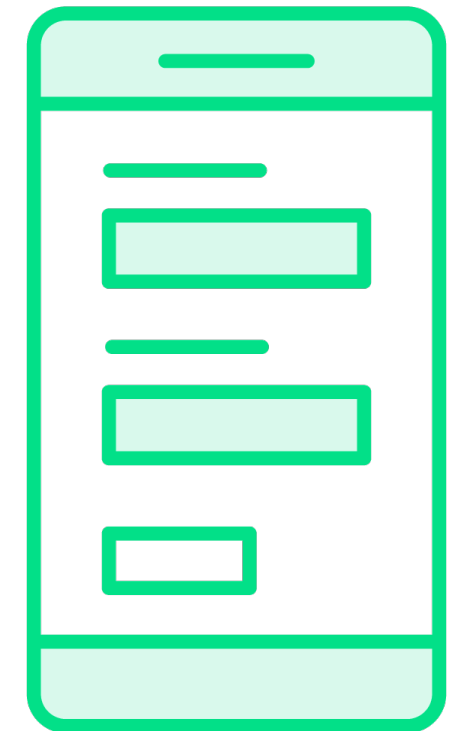
Application Development

Desktop
WPF
WinForms

Web
ASP.NET Core
MVC
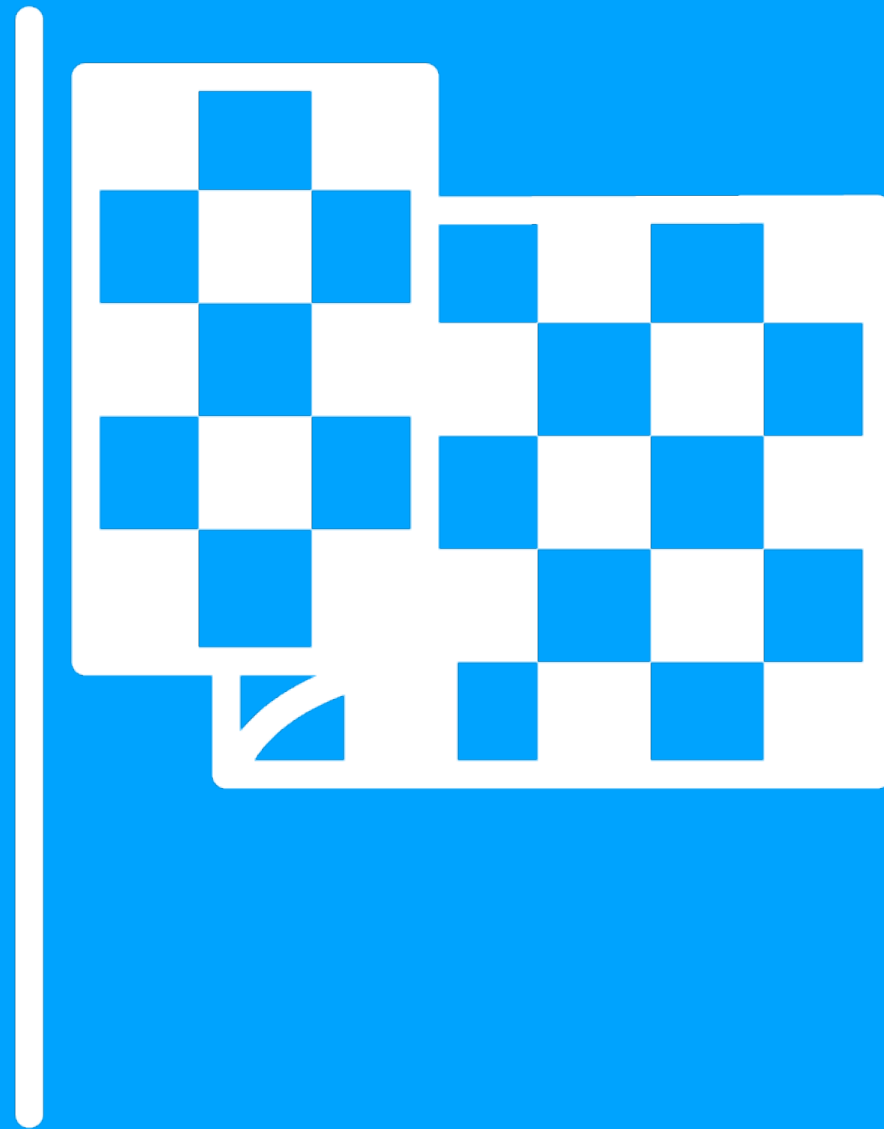Razor Pages
Blazor

API
ASP.NET Core

Mobile
Xamarin
Maui

Check out the
C# and .NET paths
on Pluralsight

Congratulations on finishing this course!