Dependency Injection in .NET with C#

Application will handle initializing services behind the scenes

Service Collection
- An IEnumerable of Service Descriptors

Dependency Lifetimes

Transient!

Every time it is requested a new one will be created

Singleton!

Single instance of class across lifetime of program

Scoped:

In ASP.NET a scope lifetime is the duration of a request/response

Resolving Dependencies

Constructor - Most basic, just needs to be registered

Method - Parameter with [From Services] parameter

Console App - need to do it manually
- Create Service Collection and register Services
- Call getRequiredService

TryAdd will not add duplicate services

You can create a custom scope with a using statement with the ServiceScopeFactory

Scrutor is a third party library to extend dependency injection