

Advanced Techniques



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Overview



Using the DI container for A/B testing

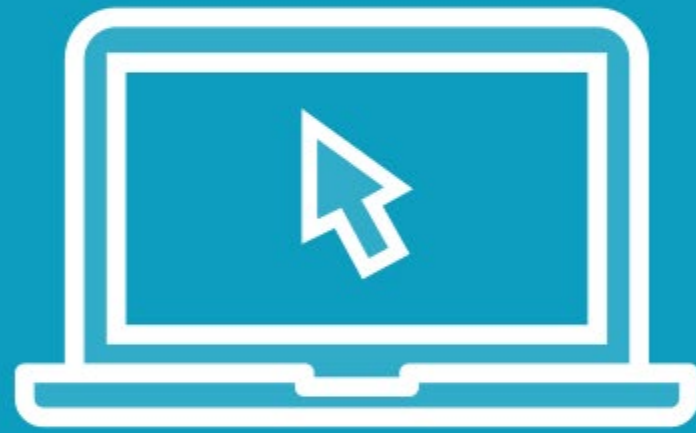
Switching to another DI container

Autofac specific techniques:

- Property injection
- Built-in support for Lazy<T>
- Interception
- Assembly scanning



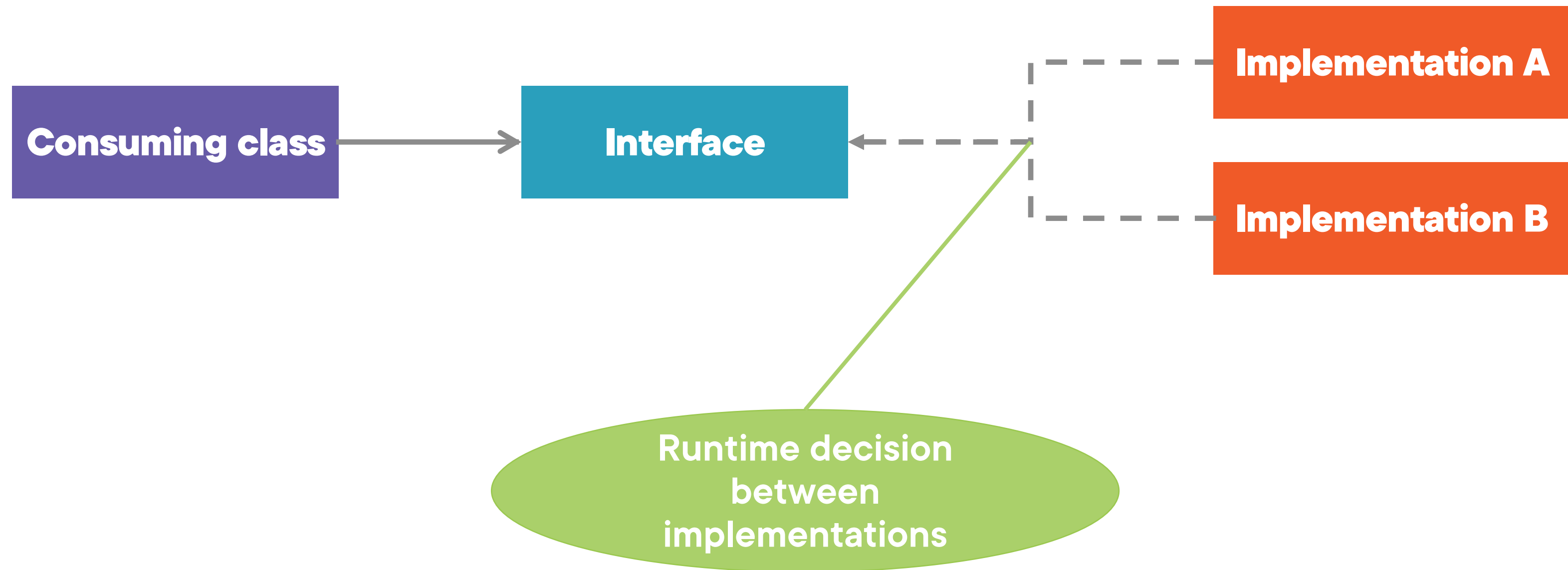
Demo



Implementing A/B testing using the DI Container

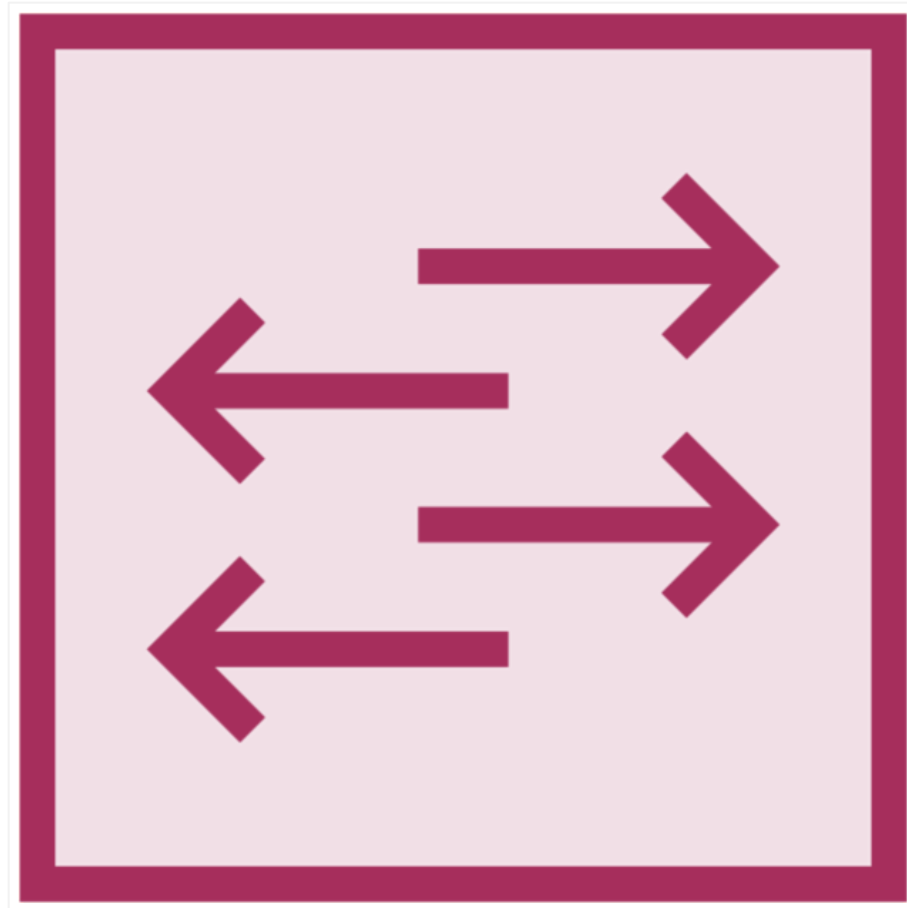


A/B Testing



Choosing Another Container





Why Switch Containers?

Historical reasons

Specific capabilities

Claimed performance (actually not true)

Autofac vs. Ninject

Autofac

**A very feature-complete
container**

Ninject

**A container that focusses on
simplicity**



Autofac

About 140M downloads on NuGet

Very feature-complete

Built-in support for modules



Ninject

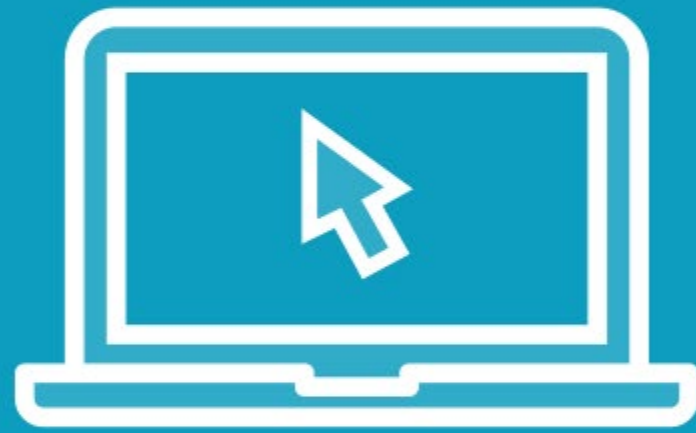
About 27M downloads on NuGet

Focusses on simplicity

Ultra lightweight and portable



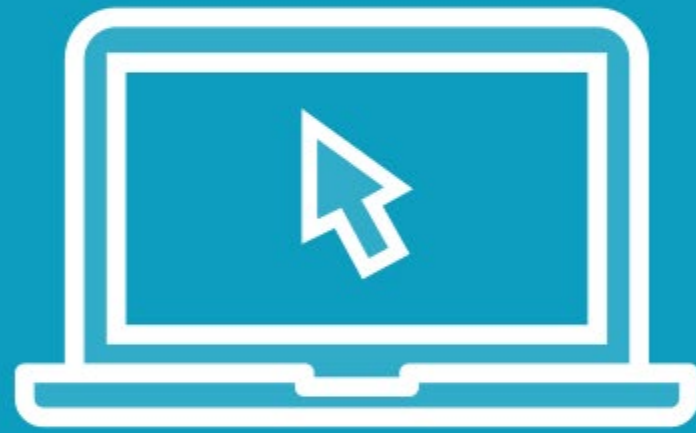
Demo



Switching to Autofac



Demo



Optional and missing dependencies

- Using `Lazy<T>`
- Using `= null`
- Using property injection



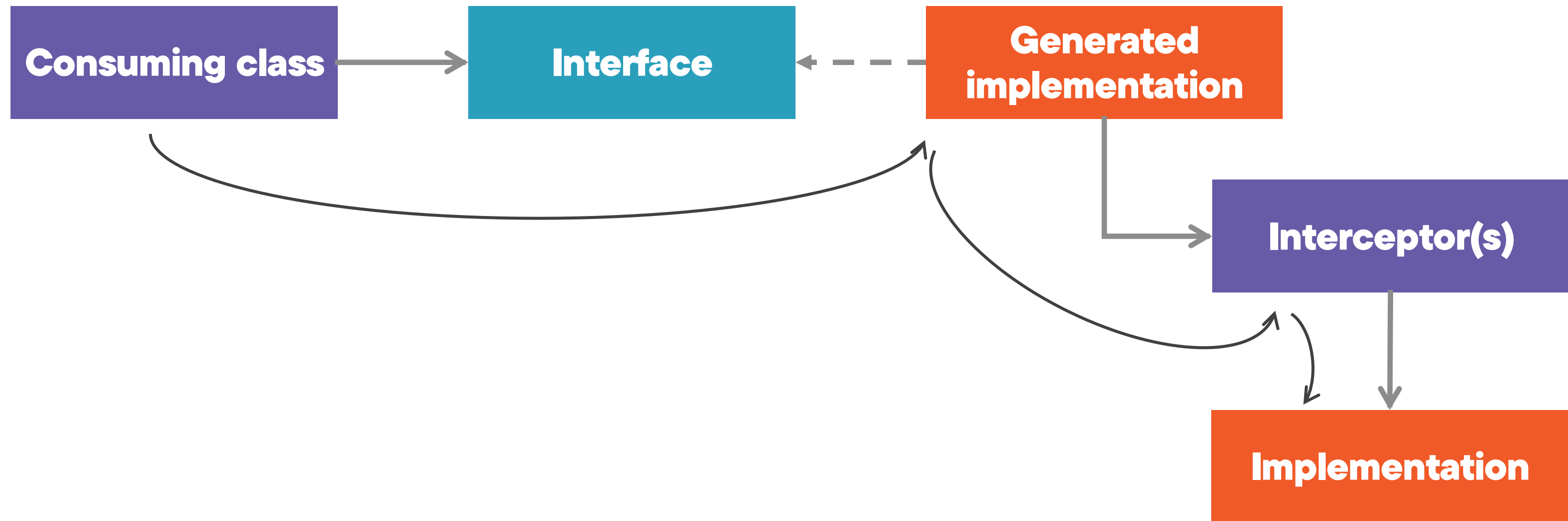
Interception



Adding Interception



Adding Interception



Common Use Cases

Logging

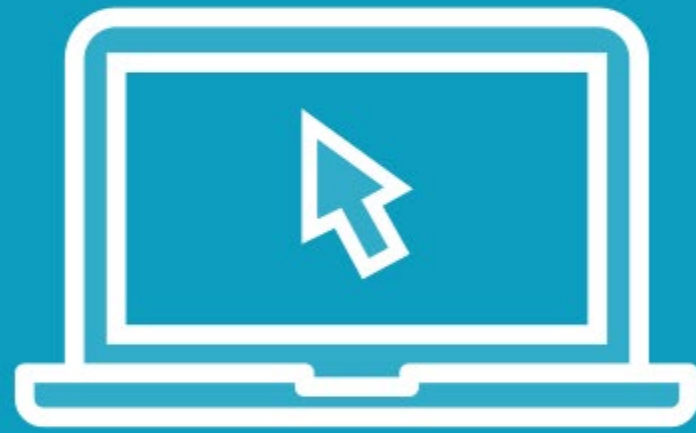
To quickly add rudimentary logging to an application that doesn't have it

Exception hiding

Adding a layer to catch and log exceptions, and to strip stack traces to prevent information leakage



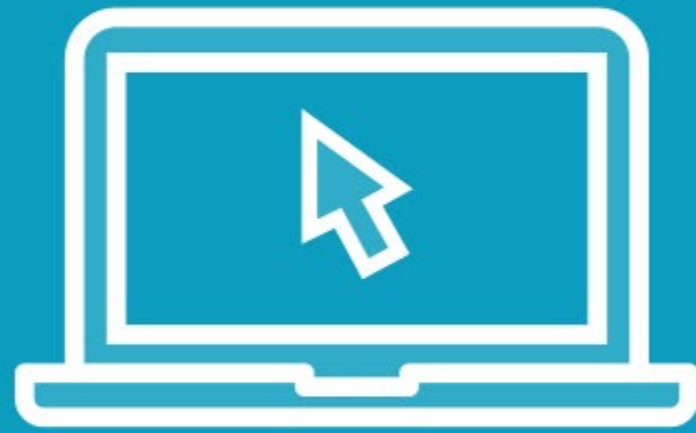
Demo



Using Autofac interception for logging calls



Demo



**Using Autofac assembly scanning to
automatically register dependencies**



Summary



A/B Testing

Switching to Autofac

Property injection

Support for Lazy<T>

Interception

Assembly scanning



What's Next?





More Information

Dependency Injection in ASP.NET Core 6

Steve Gordon





C# 10 Learning Path

To continue your
journey learning C#





Congratulations and
thank you!

