

Welcome

Async / Await Chain of Responsibility



Pattern Build It WrapUp

OWIN

```
appBuilder.Use(async (ctx, next) =>
{
  // do some things here
  await next();
  // or here
});
```

ASP.NET Core Middleware

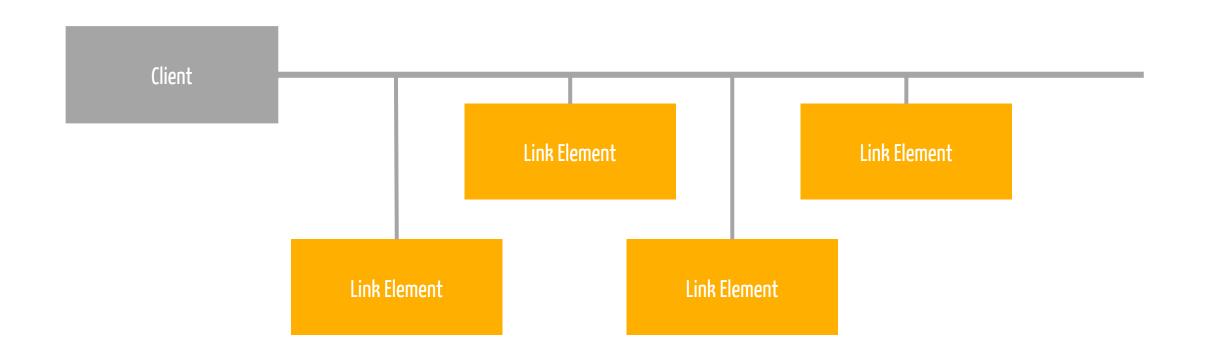
```
public class Startup {
  public void Configure(IApplicationBuilder app) {
    app.Use(async (context, next) =>
      // do some things here
      await next.Invoke();
      // or here
```

ASP.NET Core Filters

```
class ActionFilter : IAsyncActionFilter {
 public async Task OnActionExecutionAsync(
  ActionExecutionContext context, ActionExecutionDelegate next)
    // do some things here
    var resultContext = await next();
    // or here
```

Goals target

Chain of Responsibility





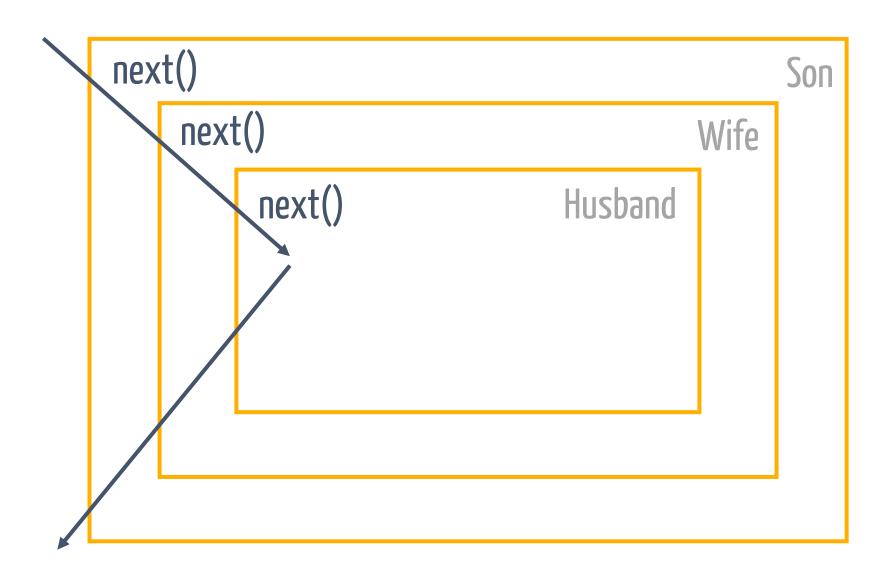
son wife husband



son wife husband

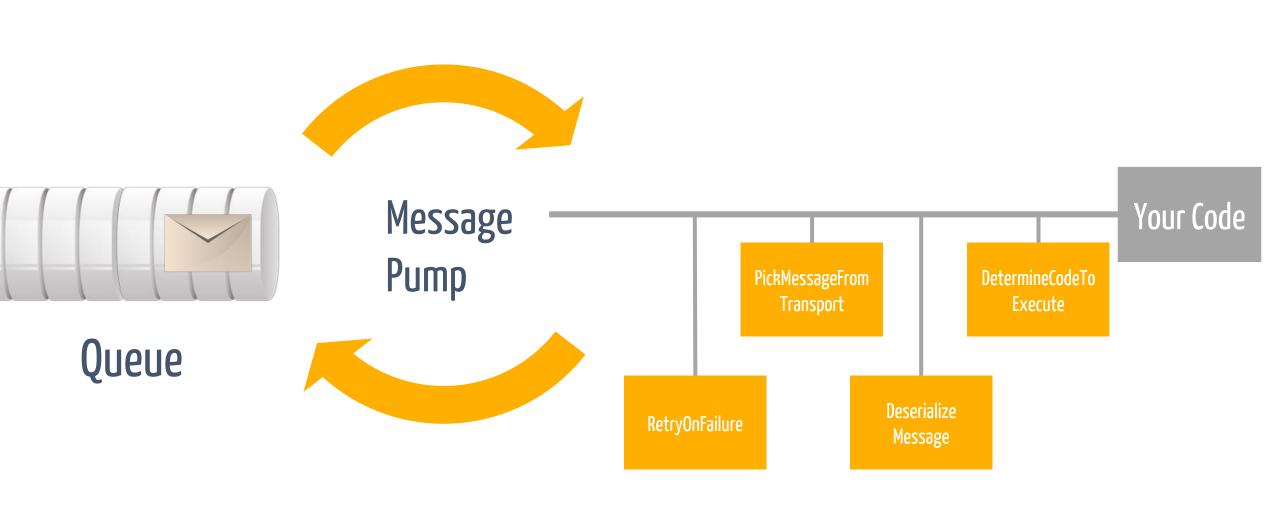
```
static void Person(Action next)
 // Implementation
  next();
```

```
public void ManualDishwasherUnloading()
{
    Son(() => Wife(() => Husband(() => Done())));
}
```

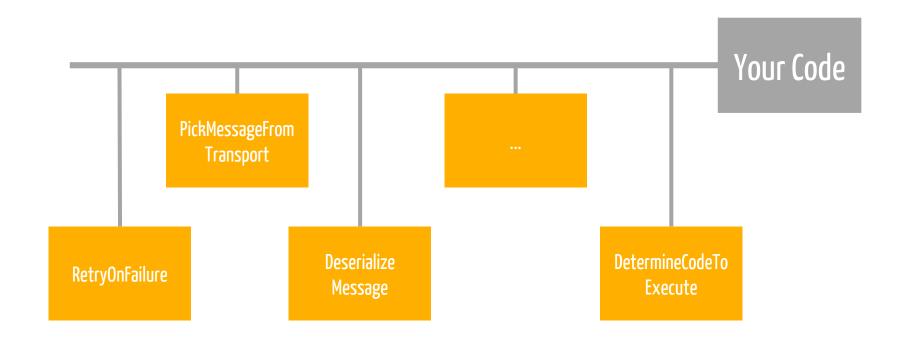
cumbersome


```
static void IgnoreDishStillWetException(Action next))
  try {
   next();
 catch(DishStillWetException) { }
```

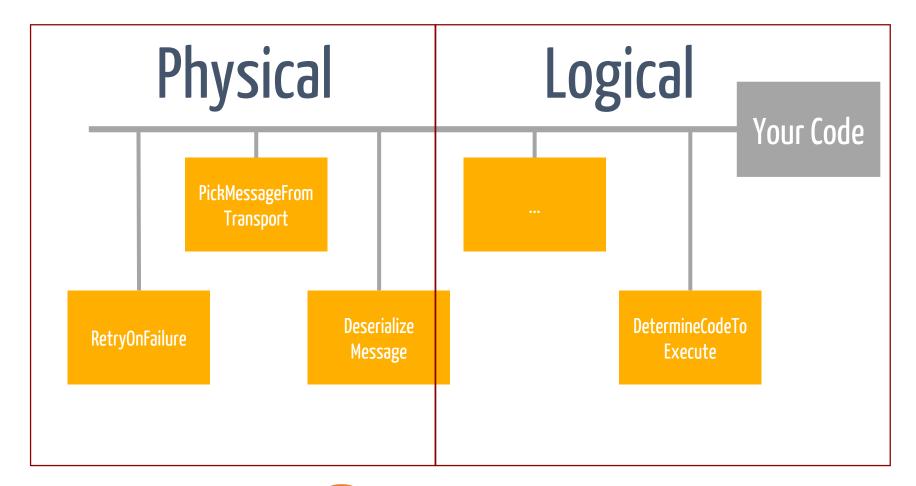





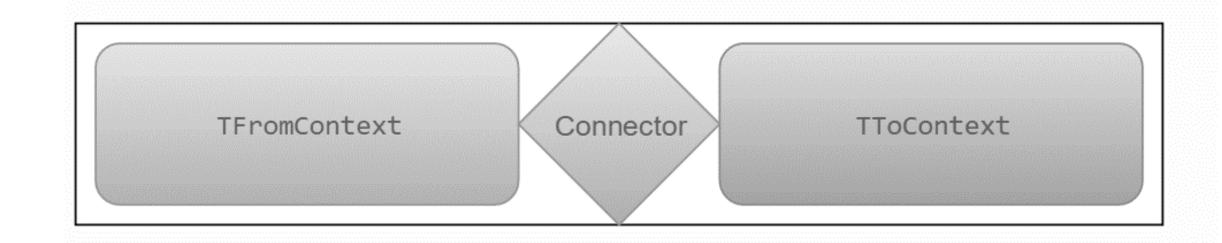
await Demo



Where to place links?



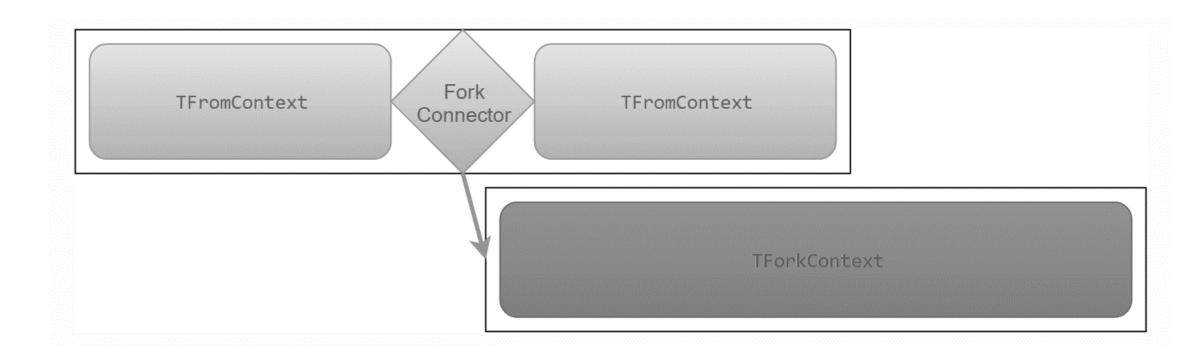
Stages



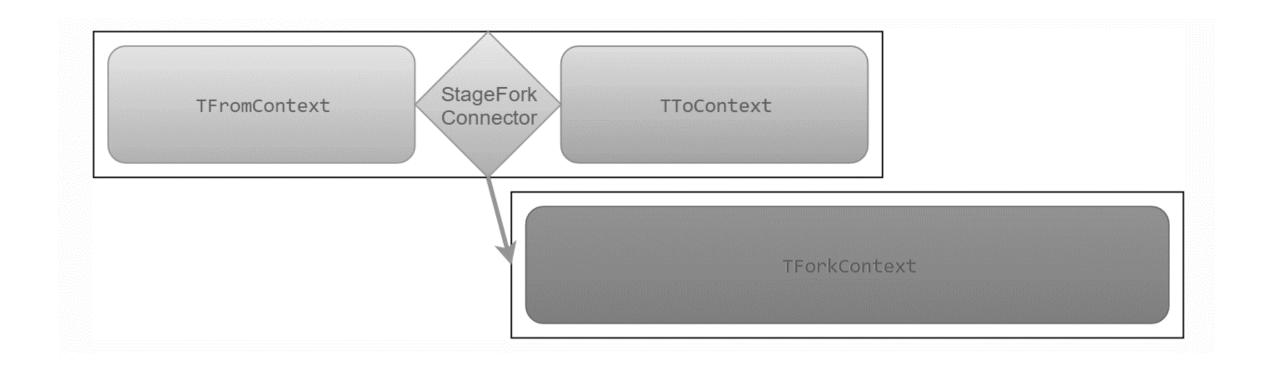
Stage Connector

await Demo

missing ConfigureAwait(false);)



Fork Connector

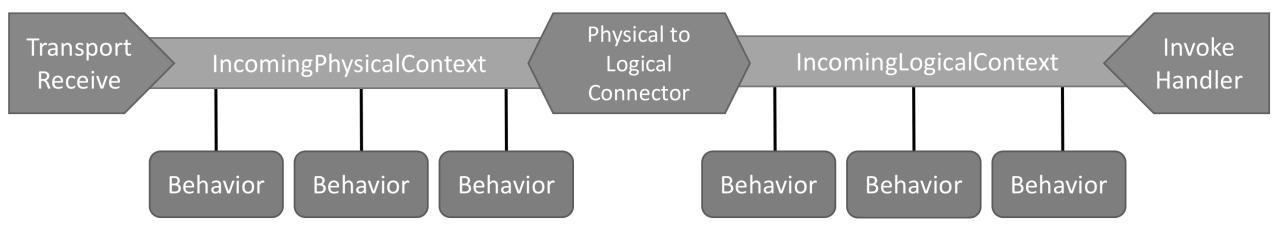


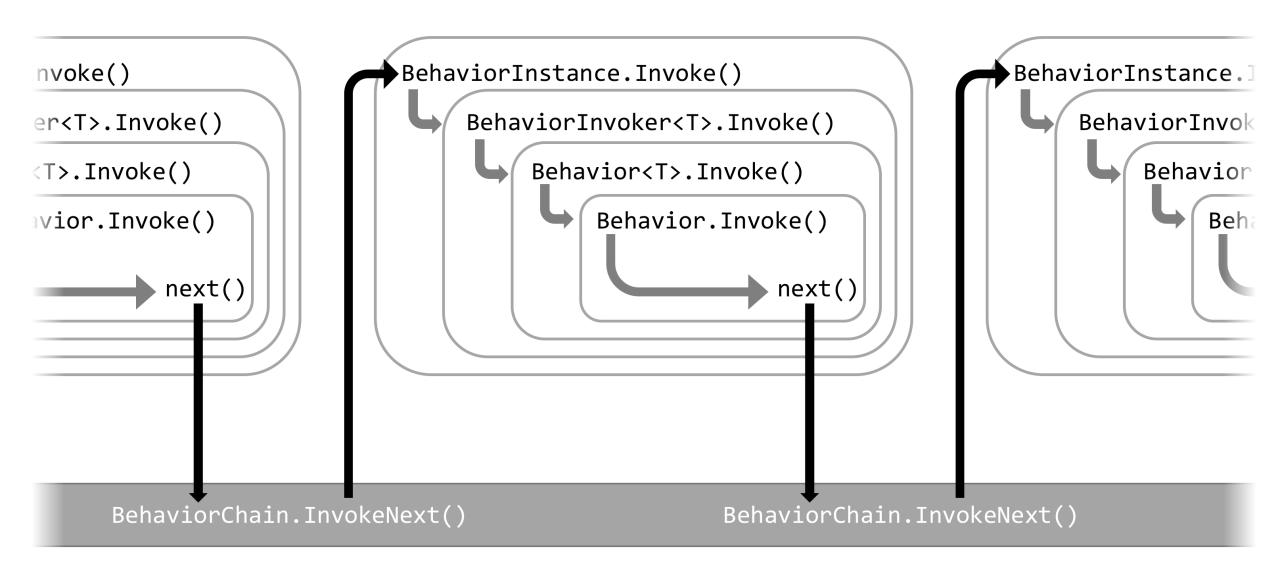
Stage Fork Connector

Tree of Responsibility

Keep calm and let your head explode

The need for





What if we write this code by hand?

Expression Trees

TBD

Pattern Build It WrapUp

NSB V6

Is Async all the way

Uses the chain of responsibility pattern heavily

particular.net/blog/async-await-its-time docs.particular.net/nservicebus/pipeline/customizing-v6

Recap reminder

Chain of Responsibility or Russian Dolls is a flextensible pattern ideally suited to build robust 10 bound pipelines

The pattern is used in many OSS projects

Know it, learn it, love it *



Slides, Links...

github.com/danielmarbach/async-dolls



await Q & A





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particular.net/blog
planetgeek.ch



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