

Welcome

TPL & Message Pumps

webinar



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Goals

target

Combine `async/await` with the TPL

Throttling your concurrent operations

Graceful shutdowns



The Pump

Code

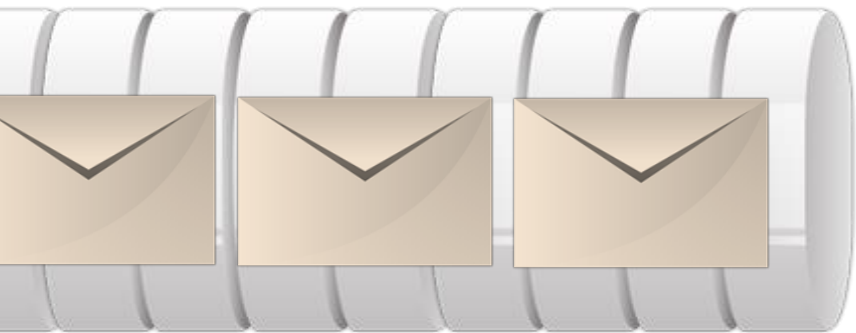
WrapUp



The Pump

Code

WrapUp



Queue



Message Pump



Your code



The Pump

Code

WrapUp

await Demo

Semaphore gated



await Demo



The Pump

Code

WrapUp

Recap

reminder

Prefer `Task.Run` over `Factory.StartNew`

Use `CancellationToken` to cancel operations inside tasks

Use `SemaphoreSlim` to throttle instead of a custom `TaskScheduler`

Recap


reminder

Don't use `LongRunning` or `AttachToParent` for Tasks with async operations

`Non-blocking all the way`, to maximize throughput


particular.net/**async-await-webinar-series**

Next

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Live Webinar Series

Async/Await

with Daniel Marbach

SIGN UP

February 25 - Async/Await best practices
See how to avoid common pitfalls in asynchronous code bases.

March 3 - Task Parallel Library and Message Pumps
Learn how to combine Async/Await and Task Parallel Library to create a message pump for a service bus.

March 10 - Async/Await NServiceBus v6 API Update
See how the v6 API update helps to avoid common Async/Await pitfalls and makes your code ready for asynchronous APIs in the cloud.

* all webinar sessions start at 12:00 EST / 17:00 GMT

Slides, Links...

github.com/danielmarbach/03-03-2016-AsyncWebinar

await Q & A

Thanks