

# micro-plumberd

Micro library for EventStore, CQRS and EventSourcing Just eXtreamly simple.

## Getting started

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## Configure plumber

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/// change to your connection-string.
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tls=false&tlsVerifyCert=false";
var settings = EventStoreClientSettings.Create(connectionString);

var plumber = new Plumber(settings) as IPlumber;
```

## Aggregates

1. Write an aggregate.

```
[Aggregate]
public partial class FooAggregate(Guid id) : AggregateBase<FooAggregate.FooState>(id)
{
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Comments:

- State is encapsulated in nested class FooState.
- Given methods, that are used when loading aggregate from the EventStoreDB are private and static. State is encouraged to be immutable.
- [Aggregate] attribute is used by SourceGenerator that will generate dispatching code and handy metadata.

2. Consume an aggregate.

If you want to create a new aggregate and save it to EventStoreDB:

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AppSrc.FooAggregate aggregate = AppSrc.FooAggregate.New(Guid.NewGuid());
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var aggregate = await plumber.Get<FooAggregate>("YOUR_ID");
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## Write a read-model/processor

1. Read-Models

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[EventHandler]
public partial class FooModel
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        // your code
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With **SubscribeModel** you can subscribe from start, from certain moment or from the end of the stream.

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[EventHandler]
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## Conventions

- SteamNameConvention - from aggregate type, and aggregate id
- EventNameConvention - from aggregate? instance and event instance
- MetadataConvention - to enrich event with metadata based on aggregate instance and event instance
- EventIdConvention - from aggregate instance and event instance
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- GroupNameModelConvention - for group name from model-type

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You can easily inject aspects through decorator pattern.

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