

# Building a Massively Dapper, Simple Data layer with Micro ORMs.

A John Bubriski & Jared Barboza joint

EDMX...

...how many of you just broke out  
in a cold sweat?

# Entity Framework



- \* Supports Relationships
- \* Effectively models your db in code
- \* Easy setup/DevX in most scenarios
- \* Slow initialization (query gen)
- \* Hard to debug query generation issues
- \* Can't control generated sql (suggest-only)
- \* Complicated Configuration

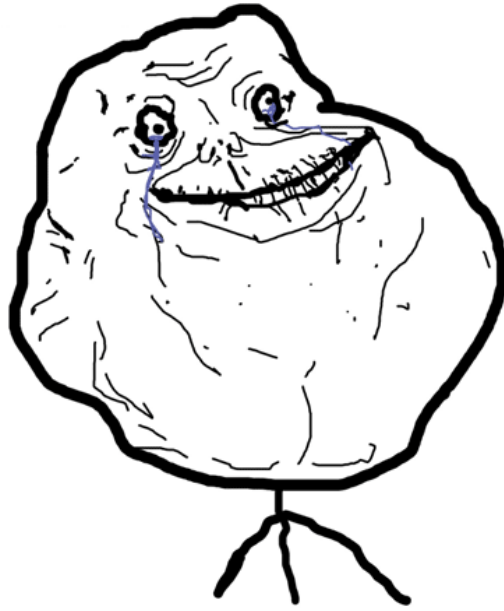
# Micro ORMS

*"An ORM that does a lot less work." -  
Sam Saffron.*

Micro ORMS: The Good

- close to the "metal" (speed)
- fancily hands you back your data
- thin wrapper around SQL
- can run straight SQL easily
- Testability (in some cases)

# Micro ORMs: The Bad



No relationships!

Whoa...



...does this mean I have to learn SQL?

# YES.

(SQL isn't going away anytime soon.)



# Massive

Rob Conery (SubSonic, Tekpub)

*"A small, happy, data access tool  
that will love you forever"*

~600 Lines of Code

# Massive: The Good

Write-optimized (Chuck stuff into the db)

ActiveRecord-like Validates\* methods

Easy to understand

So easy to understand *anyone* can present it

# Massive: The Bad

Returning as JSON: "Key", "Value"

Dynamic over POJOs

Some code convention cruft

# Demo!



can you believe they are making a third one of these?!

# Dapper

Sam Saffron (StackExchange, MiniProfiler)

*"It's just this Micro ORM, ya know?"*

# Dapper: The Good Fast!

Can use POCOs or Dynamic  
Intellisense!

Caches Mapping Methods (using  
Reflection.Emit)

# Dapper: The Bad

Complicated Multi-mapping code

Lots of manual labor

Somewhat Complicated Codebase  
(Reflection.Emit)

# Demos!



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# Simple.Data

Mark Rendle (Moist.js)

*"A light-weight, dynamic data access component for C# 4.0 "*

# Simple.Data: The Good

Syntax easy to grok

Maps to POCOS as well as

Dynamic

ActiveRecord-like "FindBy"

methods

MOCKING SUPPORT OOTB

# Simple.Data: The Bad

Large Codebase

Only Sqlite, SqlServer, Sqlce are official

# Demos!



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# Wrap-up

Micro-orms: Production Ready  
and Fast

Each have strengths/weaknesses

But wait! There's more!

## Other Micro-ORMs

PetaPoco, Cambium(Oak),  
OrmLite(ServiceStack), check  
NuGet

## Orm Extensions

ST4bby, MassiveRecord, Dapper-  
Async

# Fin. Questions?



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