



CQRS





[Learn your way] - CQS / CQRS

For beginners, by a beginner

CQS - Command Query Separation

- 🖊️ Commands — Change the state of a system but do not return a value
- 🕯️ Queries — Return a value and don't change the state of the system
(side-effect free)









Why does this matter?

-  By enforcing this separation, the code becomes simpler to understand
-  Is this changing something, or just fetching something?
-  When a method does both (changes the state of the application and retrieves data), it becomes a lot harder to understand it's true purpose
-  This can lead to really hard to reason about application state

CQRS - Command Query Responsibility Segregation

- 🖐️ CQRS is about separate models for writes and reads
- 🗄️ We could have two different databases for reading and writing
- 📎 There is a fairly common confusion between the two in everyday language

3 Most Common Misconceptions about CQRS

-  Multiple Databases
 -  Not necessarily, but yeah it's could be a good idea
-  Event Sourcing
 -  Not necessarily, but it's a good fit
-  Asynchronous Messaging
 -  Do not need to be using a message bus to apply CQRS
 -  Commands do not need to be asynchronous
 -  Everything can be done in a synchronous request/response manner

Greg Young's Blog

Good Enough Software is By Definition Good Enough

[ss Videos](#)

[Where am I?](#)

[« StackOverflow](#)

CQRS

CQRS is not a silver bullet

CQRS is not a top level architecture

CQRS is not new

CQRS is not shiny

CQRS will not make your jump shot any better

CQRS is not intrinsically linked to DDD

CQRS is not Event Sourcing

CQRS does not require a message bus

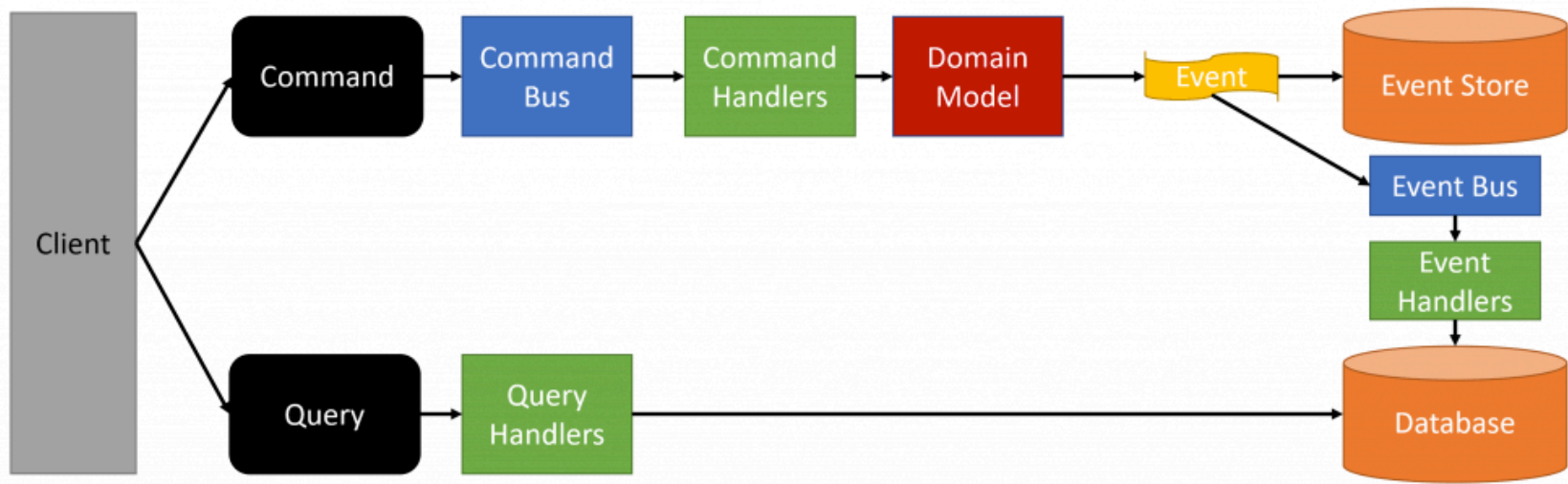
CQRS is not a guiding principle / CQS is

CQRS is not a good wife

CQRS is learnable in 5 minutes

CQRS is a small tactical pattern

CQRS can open many doors.



Example / Questions?

