



# Hexagonal Architecture

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# What is Hexagonal Architecture?

Architecture model created by Alistair Cockburn in 2005;

Port / Adapter concepts;

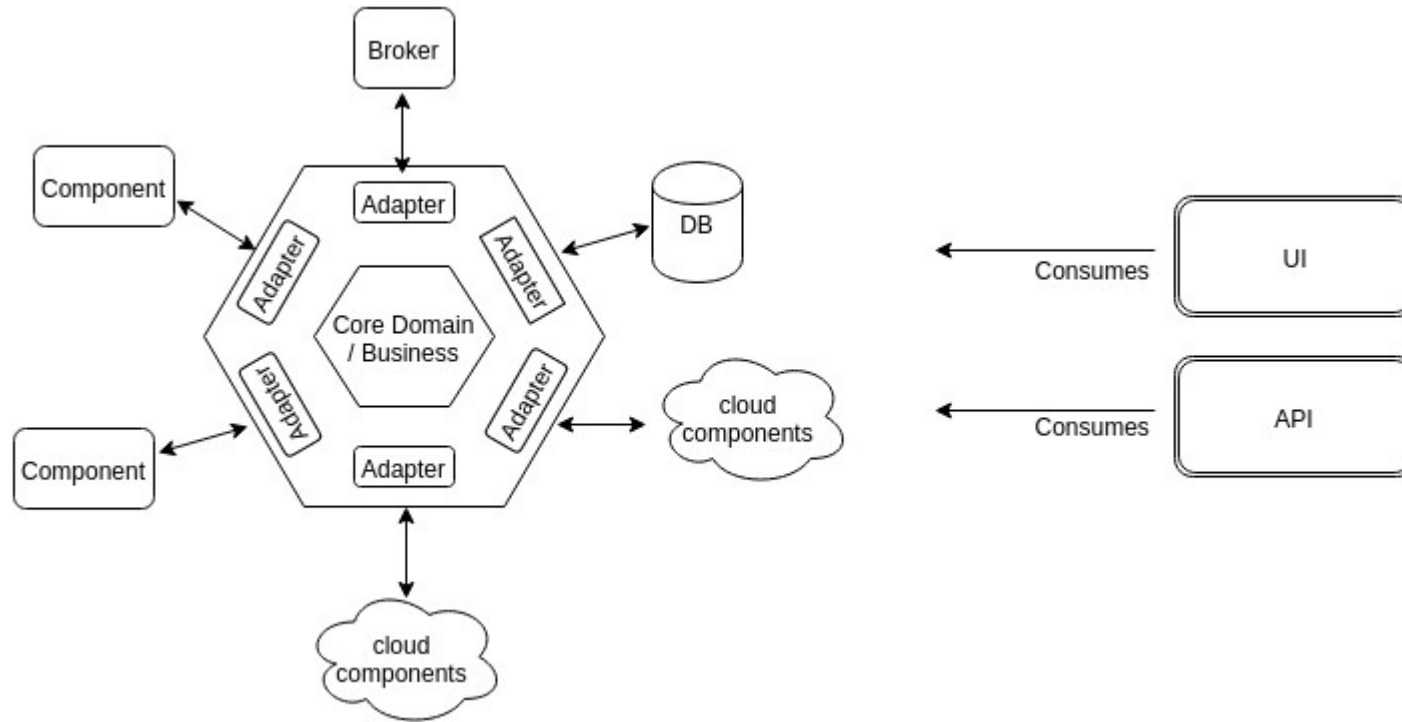
Architecture focused in isolation;

Domain/Core Business centralized;

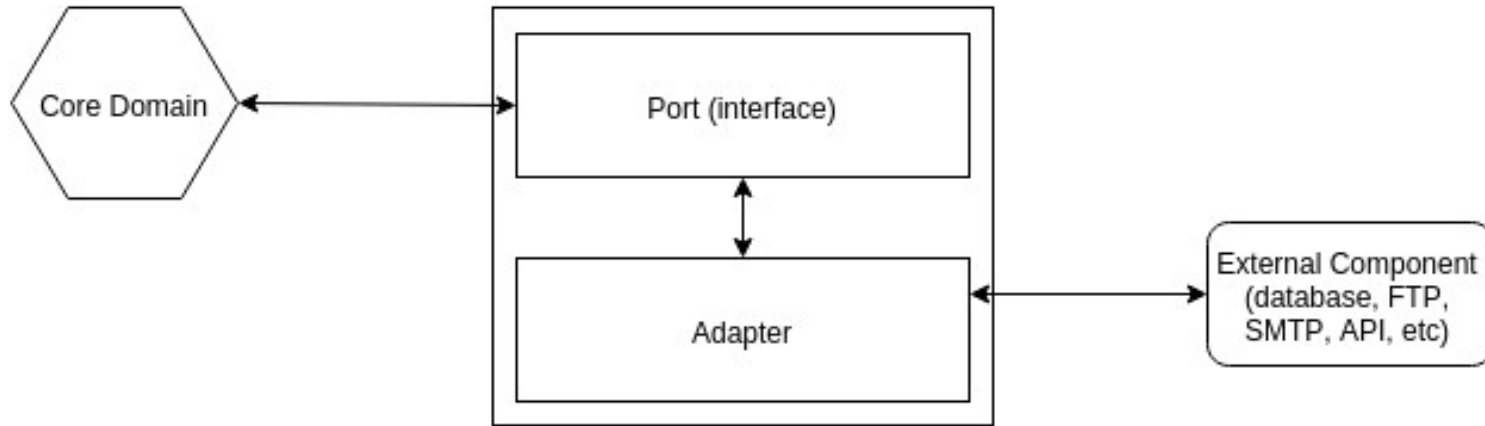
Easy to test isolated components;



# High level view



# Adapter Anatomy

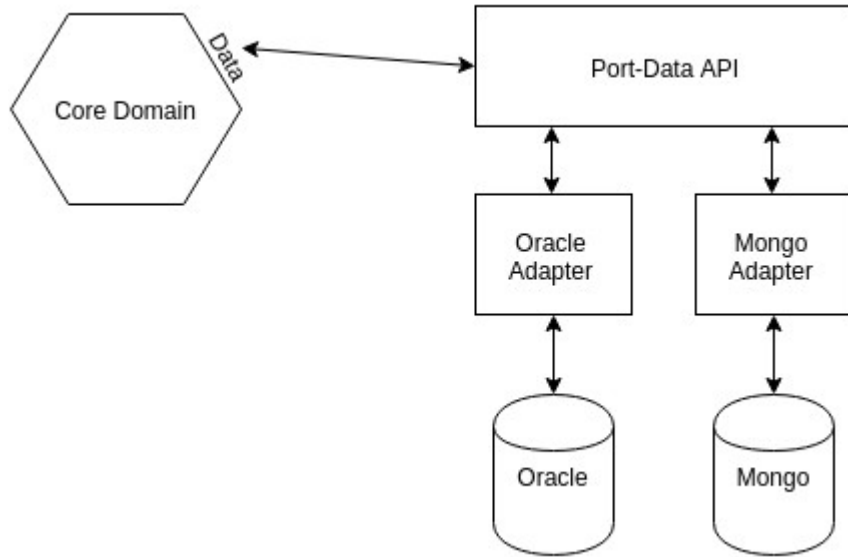


A port is usually an API;

An Adapter knows how to deal with external components;

# Adapter Anatomy

We also can group adapters per port:



# When should I use it?

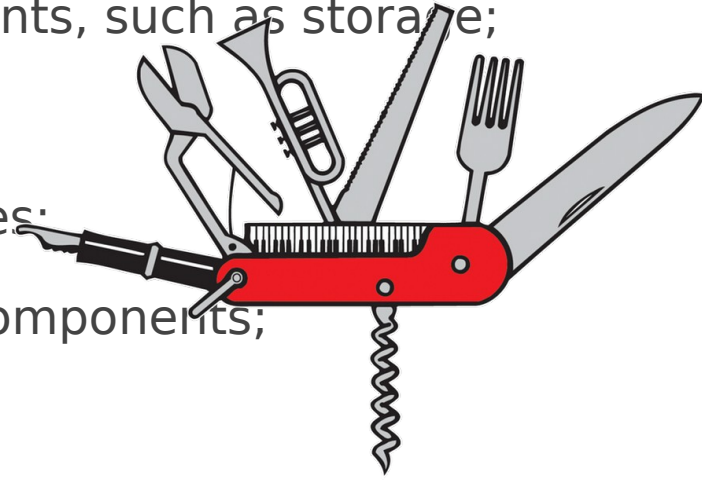
If you need high level test coverage;

If you have the necessity to switch components, such as storage;

Long way evolutive applications;

If your application tend to go to microservices;

Need to communicate with manu external components;



# Advantages

Isolation;

Testability;

Multiple implementations;

Less coupling;

No logic mixing;

Scalability, as far as I can scale the ports (in format of API);



# Disadvantages

Many adapters tends to generate confusion;

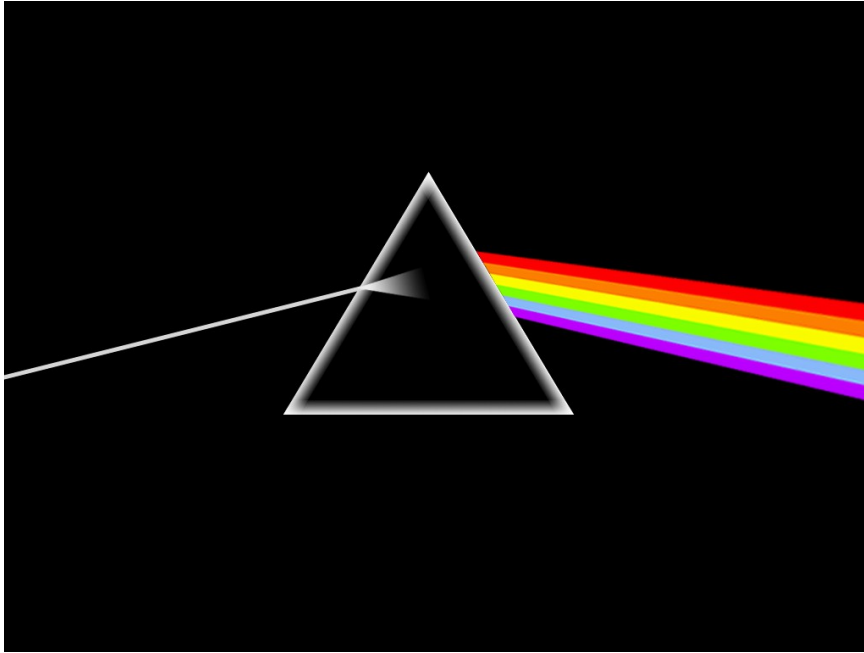
Problems inherited from distributed architectures;





# Should I have only 6 adapters?

It's hexagonal, but not necessarily 6 sides/ports



# References

<http://alistair.cockburn.us/Hexagonal+architecture>



THANK you!

