

Extending Your Code Through Interfaces



Richard Warburton

@richardwarburto www.monotonic.co.uk



Interfaces can make code
open for extension



Principles for Using Interfaces

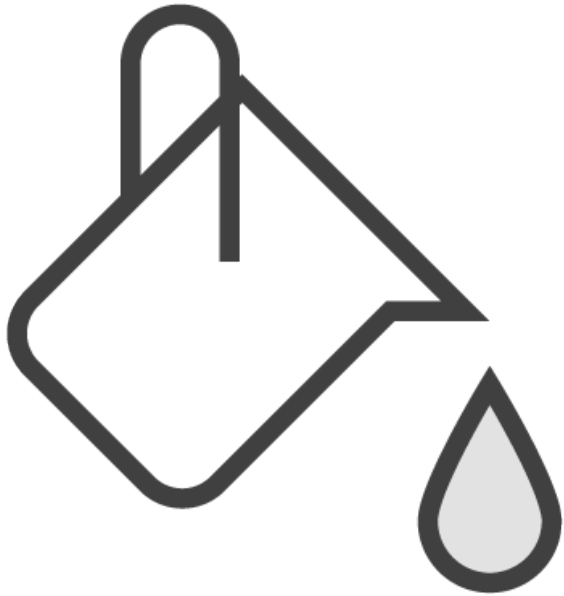
Needed

Watertight

**Simplify through
encapsulation**

Single responsibility





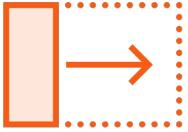
Many abstractions leak details from their implementation

Client code should not care about the implementation

Eg: Having to catch `SQLException` for a generic backend



Simplifying Through Encapsulation



Any use of an interface could be replaced with a conditional



Gauge that it's really simpler



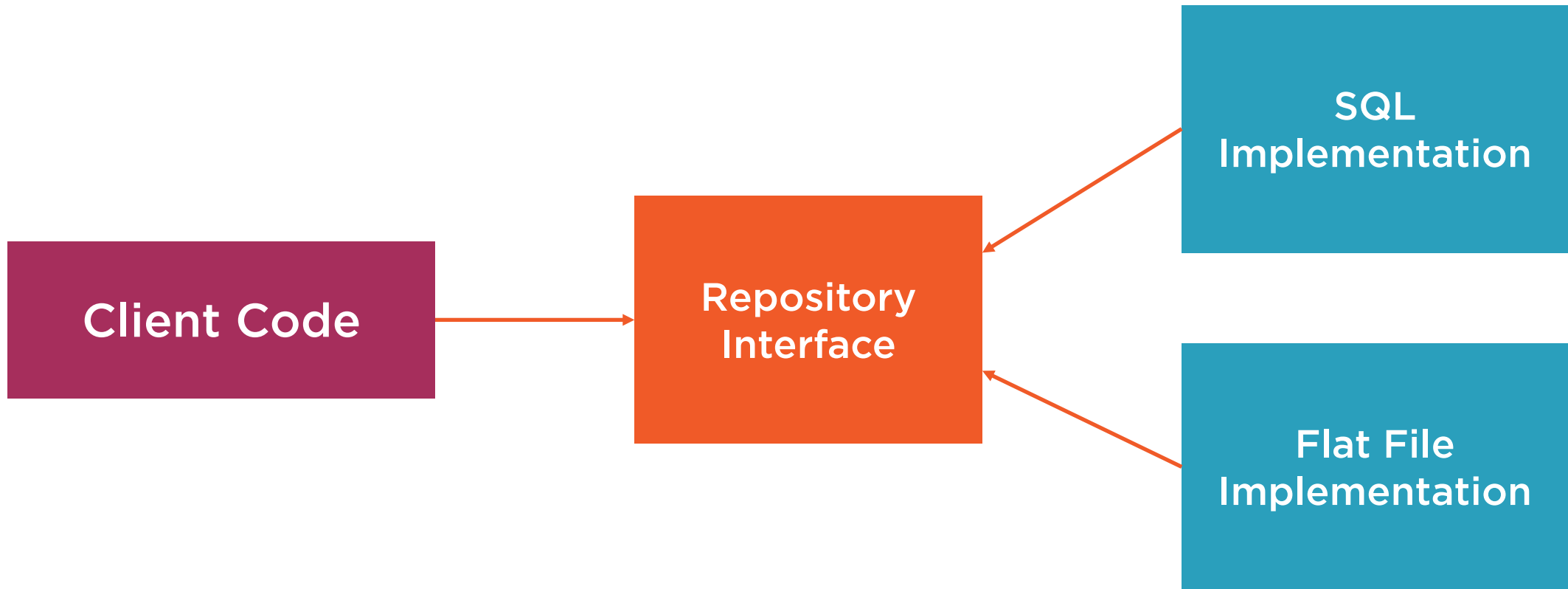
Interfaces should encapsulate concerns



Single responsibility: only
one reason to change



The Repository Pattern



Summary



Designed a more complicated interface abstraction

Demonstrated design principles

- Leakiness
- Simplification
- Single responsibility

