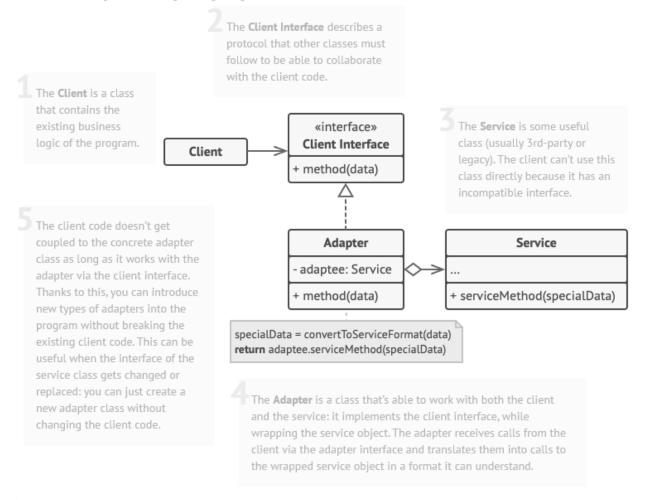
Intent

Adapter is a structural design pattern that allows objects with incompatible interfaces to collaborate.

Structure

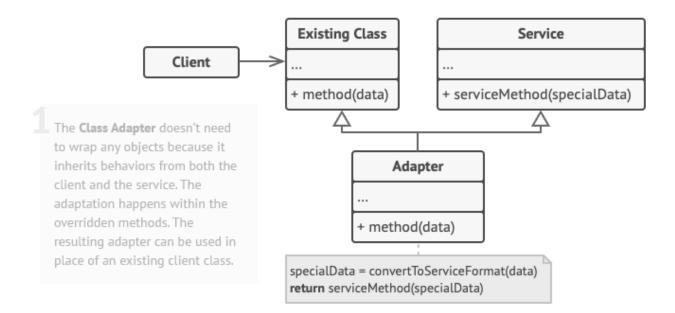
Object adapter

This implementation uses the object composition principle: the adapter implements the interface of one object and wraps the other one. It can be implemented in all popular programming languages.



Class adapter

This implementation uses inheritance: the adapter inherits interfaces from both objects at the same time. Note that this approach can only be implemented in programming languages that support multiple inheritance, such as C++.



Applicability

- Use the Adapter class when you want to use some existing class, but its interface isn't compatible with the rest of your code.
- Use the pattern when you want to reuse several existing subclasses that lack some common functionality that can't be added to the superclass.