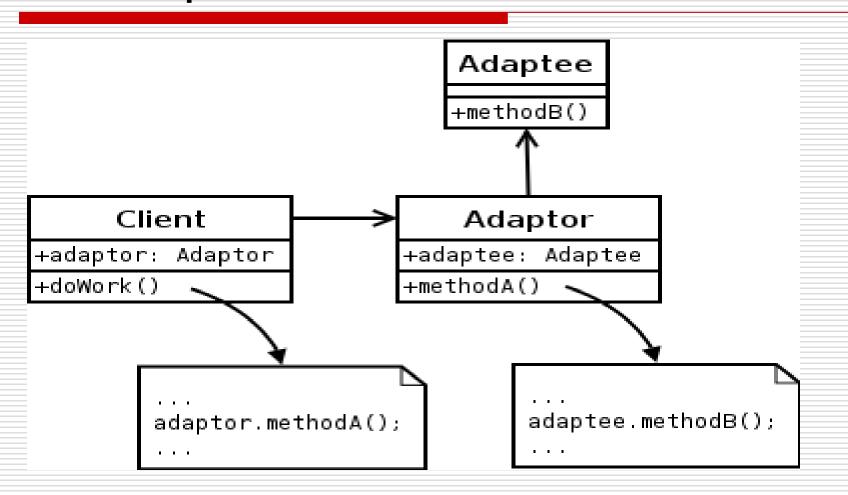
Object Adapter Pattern

Structural Pattern

Intent

- To allow objects to work together that have otherwise incompatible interfaces
- To convert the interface of an Object to another that the client expects*
- Also known as a Wrapper

Description



Example

```
class Customer{
    void setRestaurantData(String address, String city, String state, String zip){
             // do some calculation
} - Standard customer
interface CustomerAdapter{
    void setRestaurantData(String lat, String lng);
  - Certain customers give us different geocoded addresses.
  - Allows us to save to our database for later retrieval
  - Create a new object, and tailor the parameters to fit into existing structure
class CustomerAdapterImpl implements CustomerAdapter{
    private Customer customer = new Customer();
    public void setRestaurantData(String lat, String lng){
             // calculate latitude and longitude
             // return address, city, state, zip
              customer.setAddress(address, city, state, zip);
```

Advantages and Disadvantages

- Advantage: Adapter can add functionality to many Adaptees.
 CustomerAdapter can be more abstract and adapter more than just customer object.
- Disadvantage: Harder to override Adaptee behavior. Customer object behavior can't be changed without subclassing it.