

Observer Pattern

publish ⇔ subscribe

[Architecture](#), [Modeling](#), [DesignPattern](#), [Behavioral](#)

```
public final class Observer<T> {  
    public interface Subscriber<T> {  
        void onSubscribe(T data);  
    }  
  
    private final HashMap<String, Subscriber<T>> manager = new HashMap<>();  
  
    public final void subscribe(Subscriber<T> subscriber) {  
        if(subscriber == null)  
            return;  
  
        manager.put(subscriber.getClass().getName(), subscriber);  
    }  
  
    public final void publish(T data) {  
        if(data == null)  
            return;  
  
        for(Subscriber<T> listener : manager.values()) {  
            listener.onSubscribe(data);  
        }  
    }  
}
```

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