



Communication Diagram
21 CST H3Art

Object-Oriented Methodology HW 07

2024 Fall Semester

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```
public class Sale {
    private double total;
    private List<PropertyListener> propertyListeners;

    public Sale() {
        propertyListeners = new ArrayList<>();
    }

    public void addPropertyListener(PropertyListener listener) {
        propertyListeners.add(listener);
    }

    public void removePropertyListener(PropertyListener listener) {
        propertyListeners.remove(listener);
    }

    public void setTotal(double total) {
        this.total = total;
        publishPropertyEvent("sale.total", total);
    }

    public void publishPropertyEvent(String propertyName, double newValue) {
        for (PropertyListener listener : propertyListeners) {
            listener.onPropertyEvent(this, propertyName, newValue);
        }
    }
}

public interface PropertyListener {
    void onPropertyEvent(Sale sale, String propertyName, double newValue);
}
```