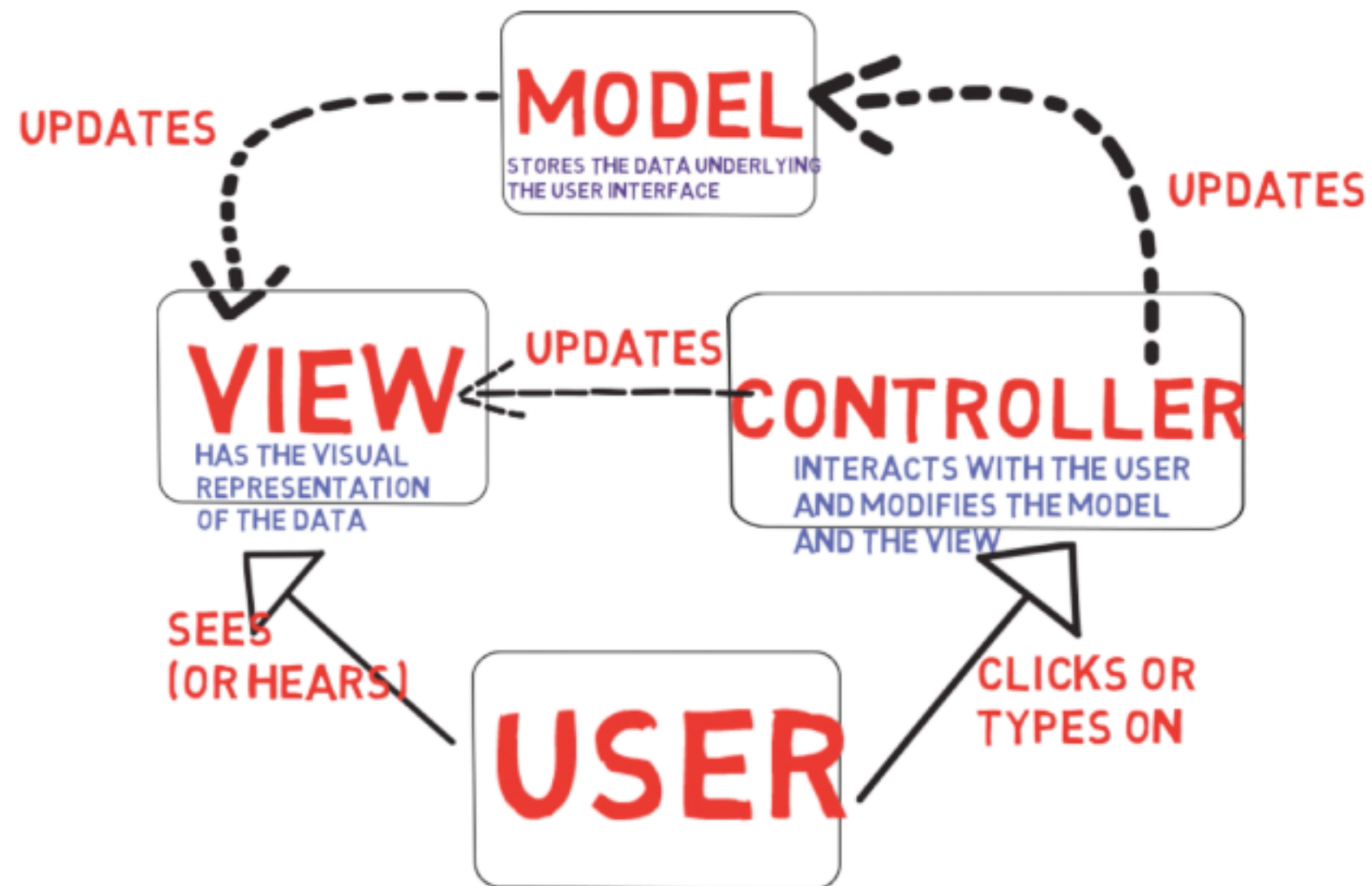


MVC IN ACTION: CHARTS



CHARTS AND TABLES

CAN BE UNDERSTOOD VIA THE MVC
PARADIGM TOO

BOTH CHARTS AND TABLES ARE
ESSENTIALLY

VIEWS

WHERE THE MODEL CONSISTS
OF

**TABULAR, OFTEN
NUMERIC DATA**

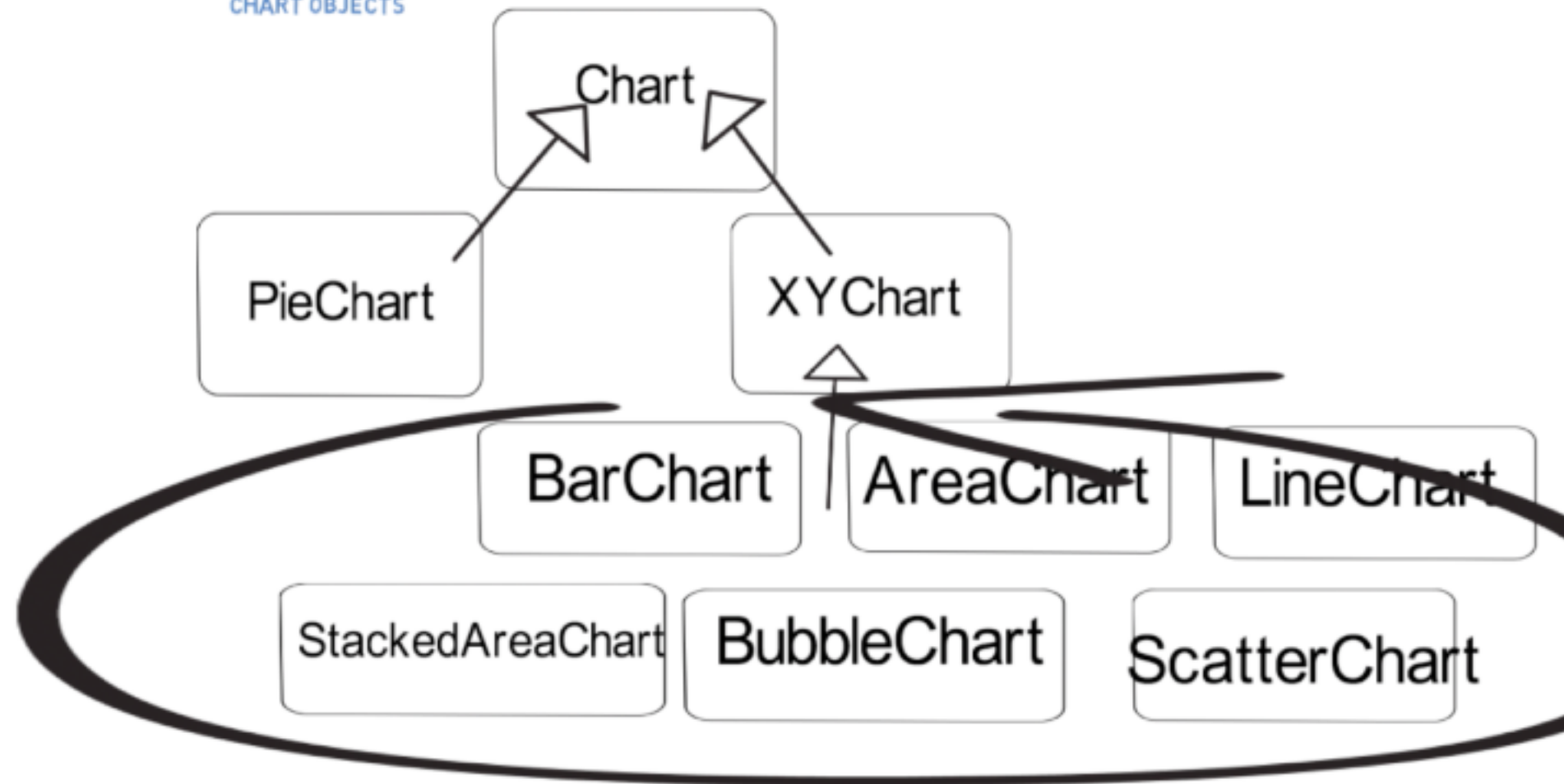
**CHARTS OFTEN DON'T HAVE A
CONTROLLER AT ALL**

WHY? BECAUSE THE CHART
USUALLY IS NOT INTERACTIVE –
THE USER DOES NOT INTERACT
WITH A CHART

**TABLES DO HAVE A CONTROLLER
LAYER, AND ITS VERY IMPORTANT
WHEN THE MODEL IS EDITABLE**

JAVAFX CHARTS

JAVAFX OFFERS A NICE RANGE OF
CHART OBJECTS



WIRING MODEL TO VIEW IN CHARTS

A FAIR BIT OF ADAPTER CODE ENDS
UP NEEDING TO BE WRITTEN

```
final NumberAxis xAxis = new NumberAxis(-5, 70, 7);
final NumberAxis yAxis = new NumberAxis(0, 70, 7);
xAxis.setLabel("Q2 2015 Revenue, $B");
yAxis.setLabel("Q2 2015 Revenue Y/Y, %");
BubbleChart<Number, Number> bubbleChart = new BubbleChart<>(xAxis, yAxis);
XYChart.Series<Number, Number> series = new XYChart.Series<>();
for (CompanyMetrics companyMetrics : data) {
    XYChart.Data<Number, Number> dataPoint = new XYChart.Data<>(companyMetrics.getRevenue(),
        companyMetrics.getGrowthRate(),
        companyMetrics.getMktCap()/100);
    series.getData().add(dataPoint);
    StackPane stackPane = new StackPane();
    Text label = new Text(companyMetrics.getName());
    stackPane.getChildren().addAll(label);
    dataPoint.setNode(stackPane);
}

bubbleChart.setLegendVisible(false);
bubbleChart.getData().add(series);
```

WE NEED TO EXPLICITLY
CREATE EACH POINT IN
EACH SERIES OF A GRAPH

BTW, YOU CAN DO ALL KINDS OF
LITTLE NEAT THINGS LIKE CUSTOMIZE
THE LOOK OF EACH POINT

**JAVAFX CHARTS ARE YET ANOTHER
EXAMPLE OF THE MVC PARADIGM
AT WORK IN A USER-INTERFACE**

