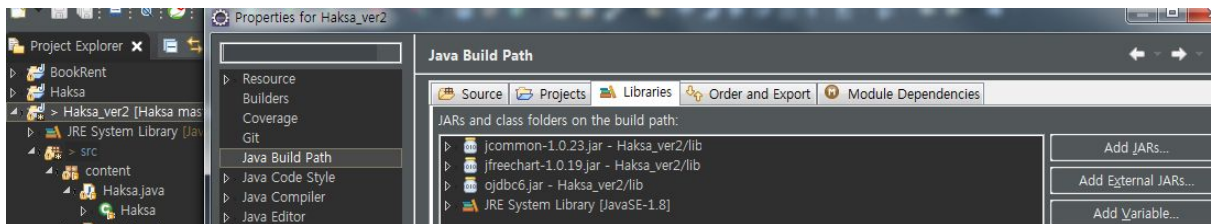
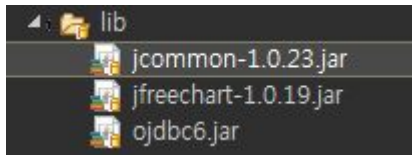


# jfreechartAPI

## 1. 라이브러리 추가



## 2. 자바 코드

**ex) pie**      **ex2) area**

## 1) 데이터 세팅 (Default '차트이름'Dataset )

ex)

```
DefaultPieDataset pieDataset = new DefaultPieDataset();
pieDataset.setValue("JavaWorld", new Integer(75));
pieDataset.setValue("Other", new Integer(25));
```

ex2)

```
DefaultCategoryDataset dataset = new DefaultCategoryDataset();
dataset.addValue(10, "JavaWorld", "2017");
dataset.addValue(20, "JavaWorld", "2018");
dataset.addValue(30, "JavaWorld", "2019");
```

```
dataset.addValue(7, "Other", "2017");
dataset.addValue(11, "Other", "2018");
dataset.addValue(16, "Other", "2019");
```

## 2) 차트 툴 (JFreeChart chart = ChartFactory.create'차트이름')

ex)

```
JFreeChart chart = ChartFactory.createPieChart("title", // Title
        pieDataset, // Dataset
        true,true,false);
```

ex2)

```
JFreeChart chart = ChartFactory.createAreaChart("Title", // 제목
    "Year", // 하단 내용.
    "Percentage(%)", // 좌측 내용
    dataset); // 데이터.
```

### 3)한글 인코딩(한글 인코딩 시 동작시간이 좀 걸립니다.)

//제목 한글 폰트 사용.

```
chart.getTitle().setFont(new Font("돋움", Font.BOLD, 20));  
chart.getLegend().setItemFont(new Font("돋움", Font.PLAIN, 10));  
PiePlot plot = (PiePlot) chart.getPlot();  
plot.setLabelFont(new Font("돋움", Font.PLAIN, 12));
```

### 4)차트 생성 (ChartPanel)

ex)

```
ChartPanel chartPanel = new ChartPanel(chart)
```

### 5)화면 보여주기

ex)

```
setContentPane(chartPanel);  
this.setSize(500, 500);  
setVisible(true);
```

## pie 최종 소스 및 화면.

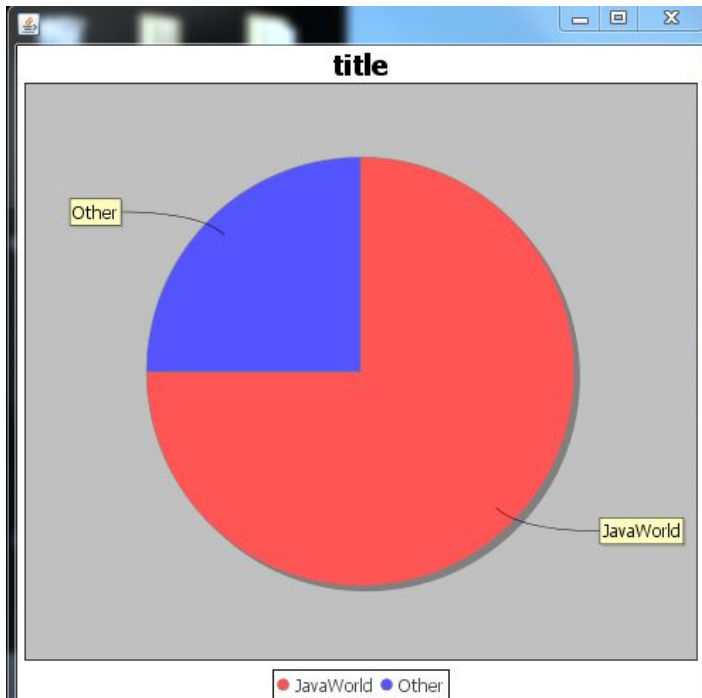
ex pie)

```
public class Chart_S extends JFrame {  
    //pie  
    public void pieChartEx() {  
        // Create dataset  
        DefaultPieDataset pieDataset = new DefaultPieDataset();  
        pieDataset.setValue("JavaWorld", new Integer(75));  
        pieDataset.setValue("Other", new Integer(25));  
  
        JFreeChart chart = ChartFactory.createPieChart("제목", // Title  
  
        // Create Panel  
        ChartPanel chartPanel = new ChartPanel(chart);  
        setContentPane(chartPanel);  
  
        this.setSize(500, 500);  
        setVisible(true);  
    }  
}
```

```

    public static void main(String[] args) {
        Chart_S pie = new Chart_S();
        pie.pieChartEx();
    }
}

```



**ex2)**

```

public class Chart_S extends JFrame {
    public void areaChartEx() {
        DefaultCategoryDataset dataset = new DefaultCategoryDataset();
        dataset.addValue(10, "JavaWorld", "2017");
        dataset.addValue(20, "JavaWorld", "2018");
        dataset.addValue(30, "JavaWorld", "2019");

        dataset.addValue(7, "Other", "2017");
        dataset.addValue(11, "Other", "2018");
        dataset.addValue(16, "Other", "2019");

        JFreeChart chart = ChartFactory.createAreaChart(
            "Title", "Year", "Percentage(%)", dataset);

        ChartPanel chartPanel = new ChartPanel(chart);
        setContentPane(chartPanel);
        setSize(800, 400);
    }
}

```

```
        setVisible(true);
    }
    public static void main(String[] args) {
        Chart_S pie = new Chart_S();
        pie.areaChartEx();
    }
}
```

