

JFREECHART - FILE INTERFACE

http://www.tutorialspoint.com/jfreechart/jfreechart_file_interface.htm

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So far we studied how to create various types of charts using JFreeChart APIs using static data. But in production environment, data is provided in the form of text file with a predefined format, or it comes directly from the database.

This chapter will explain how we can read a simple data from a given text file from a given location and then use JFreeChart to create a chart of your choice.

Business Data

Consider we have a file named **mobile.txt**, having different mobile brands and their sale *unitsperday* separated by a simple comma , :

```
Iphone 5S, 20
Samsung Grand, 20
MOTO G, 40   Nokia
Lumia, 10
```

Chart Generation Based on File

Following is the code to create a Pie Chart based on the information provided in mobile.txt:

```
import java.io.*;
import java.util.StringTokenizer;
import org.jfree.chart.ChartUtilities;
import org.jfree.chart.ChartFactory;
import org.jfree.chart.JFreeChart;
import org.jfree.data.general.DefaultPieDataset;

public class PieChart_File
{
    public static void main( String[ ] args )throws Exception
    {
        String mobilebrands[ ] = {
            "IPhone 5s" ,
            "SamSung Grand" ,
            "MotoG" ,
            "Nokia Lumia"
        };

        InputStream in = new FileInputStream( new File( "C:/temp/test.txt" ) );
        BufferedReader reader = new BufferedReader(new InputStreamReader(in ) );
        StringBuilder out = new StringBuilder();
        String line;
        DefaultPieDataset dataset = new DefaultPieDataset();

        while (( line = reader.readLine() ) != null )
        {
            out.append( line );
        }
        StringTokenizer s = new StringTokenizer( out.toString(), "," );
        int i=0;
        while( s.hasMoreTokens( ) && ( mobilebrands [i] != null ) )
        {
            dataset.setValue(mobilebrands[i], Double.parseDouble( s.nextToken( ) ));
            i++;
        }
        JFreeChart chart = ChartFactory.createPieChart(
            "Mobile Sales", // chart title
            dataset,         // data
            true,            // include legend
            true,
            false);
```

```

int width = 560; /* Width of the image */
int height = 370; /* Height of the image */
File pieChart = new File( "pie_Chart.jpeg" );
ChartUtilities.saveChartAsJPEG( pieChart, chart, width, height);
}
}

```

Let us keep the above Java code in **PieChart_File.java** file, and then compile and run it from command prompt as follows :

```

$javac PieChart_File.java
$java PieChart_File

```

If everything is fine , it will compile and run to create JPEG image file named **PieChart.jpeg** that contains following chart.

