Table1 The original class JFreeChart in JFreeChart

Original Class JFreeChart	
Attributes	Methods
legend	getTitle()
data	getLegend()
plot	setLegend(Legend legend)
antialias	getPlot()
chartBackgroundPaint	getAntiAlias()
seriesPaint	setAntiAlias(boolean flag)
seriesStroke	getChartBackgroundPaint()
seriesOutlinePaint	setChartBackgroundPaint(Paint)
seriesOutlineStroke	setSeriesPaint(Paint[])
listeners	setSeriesStroke(Stroke[])
	setSeriesOutlinePaint(Paint[])
	setSeriesOutlineStroke(Stroke[])
	getSeriesPaint(int)
	getSeriesStroke(int)
	getSeriesOutlinePaint(int)
	getSeriesOutlineStroke(int)
	draw(Graphics2D, Rectangle2D)
	fireChartChanged()
	addChangeListener(ChartChangeListener)
	removeChangeListener(ChartChangeListener)
	notifyListeners(ChartChangeEvent)
	titleChanged(TitleChangeEvent)
	legendChanged(LegendChangeEvent)
	plotChanged(PlotChangeEvent)

Table2 The new classes extracted by developers

Class Extracted by the Developers - 1	
Attributes	Methods
legend	getTitle()
data	getLegend()
plot	setLegend(Legend)
antialias	getPlot()
chartBackgroundPaint	getAntiAlias()
listeners	setAntiAlias(boolean)
	getChartBackgroundPaint()
	setChartBackgroundPaint(Paint)
	draw(Graphics2D, Rectangle2D)
	addChangeListener(ChartChangeListener)
	removeChangeListener(ChartChangeListener)
	fireChartChanged()
	notifyListeners(ChartChangeEvent)
	titleChanged(TitleChangeEvent)

	legendChanged(LegendChangeEvent)
	plotChanged(PlotChangeEvent)
Class Extracted by the Developers - 2	
Attributes	Methods
seriesPaint	getSeriesPaint(int)
seriesStroke	setSeriesPaint(Paint[])
seriesOutlinePaint	getSeriesStroke(int)
seriesOutlineStroke	setSeriesStroke(Stroke[])
	getSeriesOutlinePaint(int)
	setSeriesOutlinePaint(Paint[])
	getSeriesOutlineStroke(int)
	setSeriesOutlineStroke(Stroke[])

Table3 The new classes extracted by our approach

Class Extracted our approach - 1	
Attributes	Methods
listeners	draw(Graphics2D, Rectangle2D)
legend	getPlot()
plot	getTitle()
chartBackgroundPaint	getAntiAlias()
antialias	setAntiAlias(boolean)
data	getChartBackgroundPaint()
	setChartBackgroundPaint(Paint)
	getLegend()
	setLegend(Legend)
	fireChartChanged()
	plotChanged(PlotChangeEvent)
	legendChanged(LegendChangeEvent)
	notifyListeners(ChartChangeEvent)
	addChangeListener(ChartChangeListener)
	removeChangeListener(ChartChangeListener)
	titleChanged(TitleChangeEvent)
Class Extracted our approach - 2	
Attributes	Methods
seriesStroke	getSeriesOutlineStroke(int)
seriesOutlineStroke	getSeriesOutlinePaint(int)
seriesOutlinePaint	setSeriesOutlinePaint(Paint[])
seriesPaint	setSeriesOutlineStroke(Stroke[])
	getSeriesPaint(int)
	setSeriesPaint(Paint[])
	getSeriesStroke(int)
	setSeriesStroke(Stroke[])

Table 4 The new classes extracted by Bavota's approach[14]

Class Extracted Bavota's approach - 1	
Attributes	Methods
legend	setLegend(Legend)
seriesPaint	getLegend()
seriesStroke	setSeriesStroke(Stroke[])
	titleChanged(TitleChangeEvent)
	getTitle()
	addChangeListener(ChartChangeListener)
	getAntiAlias()
	getSeriesPaint(int)
	getSeriesStroke(int)
	legendChanged(LegendChangeEvent)
	setAntiAlias(boolean)
	setChartBackgroundPaint(Paint)
	setSeriesPaint(Paint[])
Class Extracted Bavota's approach - 2	
Attributes	Methods
seriesOutlinePaint	fireChartChanged()
seriesOutlineStroke	getChartBackgroundPaint()
data	getSeriesOutlinePaint(int)
chartBackgroundPaint	getSeriesOutlineStroke(int)
antialias	notifyListeners(ChartChangeEvent)
plot	plotChanged(PlotChangeEvent)
	removeChangeListener(ChartChangeListener)
	setSeriesOutlineStroke(Stroke[])
	draw(Graphics2D, Rectangle2D)
	getPlot()
	setSeriesOutlinePaint(Paint[])

Table 5 The new classes extracted by Fokaefs' approach

Class Extracted Fokaefs' approach - 1	
Attributes	Methods
listeners	legendChanged(LegendChangeEvent)
legend	getLegend()
	fireChartChanged()
	addChangeListener(ChartChangeListener)
	notifyListeners(ChartChangeEvent)
	removeChangeListener(ChartChangeListener)
Class Extracted Fokaefs' approach - 2	
Attributes	Methods
plot	getPlot()
seriesOutlinePaint	setAntiAlias(boolean)
seriesOutlineStroke	setChartBackgroundPaint(Paint)

seriesPaint	setLegend(Legend)
seriesStroke	setSeriesOutlinePaint(Paint[])
data	setSeriesOutlineStroke(Stroke[])
chartBackgroundPaint	setSeriesPaint(Paint[])
antialias	setSeriesStroke(Stroke[])
	titleChanged(TitleChangeEvent)
	draw(Graphics2D, Rectangle2D)
	getTitle()
	getSeriesStroke(int)
	getSeriesPaint(int)
	getSeriesOutlineStroke(int)
	getSeriesOutlinePaint(int)
	plotChanged(PlotChangeEvent)
	getChartBackgroundPaint()
	getAntiAlias()