|  |  |  |
| --- | --- | --- |
| **Inheritance Extract Class Refactoring Suggestions** | | |
| Original Class  [*N*split] | Extract Class | |
| New Class  [Superclass]  [Subclass] | Methods/Fields |
| AbstractRenderer  [3] | AbstractRenderer\_new\_1  [-]  [AbstractCategoryItemRenderer\_new\_1, AbstractXYItemRenderer] | equals(Object)  isOutlinePaintTableActive()  isShapeTableActive()  setSeriesPaint(int,Paint)  isStrokeTableActive()  isPaintTableActive()  setSeriesStroke(int, int,Stroke)  setDrawingSupplier(DrawingSupplier)  setSeriesStroke(int,Stroke)  isOutlineStrokeTableActive()  setSeriesPaint(int, int,Paint)  getDrawingSupplier()  getDefaultPaint()  setDefaultPaint(Paint)  defaultPaint  getDefaultStroke()  setDefaultStroke(Stroke)  defaultStroke  setStrokeTableActive(boolean)  strokeTableActive  getPlot()  setPlot(Plot)  plot  setOutlinePaintTableActive(boolean)  outlinePaintTableActive  setPaintTableActive(boolean)  paintTableActive  setShapeTableActive(boolean)  shapeTableActive  getDefaultShape()  setDefaultShape(Shape)  defaultShape  getDefaultOutlinePaint()  setDefaultOutlinePaint(Paint)  defaultOutlinePaint  getDefaultOutlineStroke()  setDefaultOutlineStroke(Stroke)  defaultOutlineStroke  setOutlineStrokeTableActive(boolean)  outlineStrokeTableActive  AbstractRenderer\_new\_2\_Instance  AbstractRenderer\_new\_3\_Instance |
| AbstractRenderer\_new\_2  [-]  [-] | getItemStroke(int, int, int)  getItemPaint(int, int, int)  getSeriesPaint(int, int)  paintTable  strokeTable  getSeriesStroke(int, int)  supplier  getItemShape(int, int, int)  getSeriesShape(int, int)  shapeTable  setSeriesShape(int, int,Shape)  setSeriesShape(int,Shape) |
| AbstractRenderer\_new\_3  [-]  [-] | setSeriesOutlineStroke(int,Stroke)  getItemOutlineStroke(int, int, int)  outlineStrokeTable  setSeriesOutlineStroke(int, int,Stroke)  getSeriesOutlineStroke(int, int)  setSeriesOutlinePaint(int,Paint)  getItemOutlinePaint(int, int, int)  setSeriesOutlinePaint(int, int,Paint)  outlinePaintTable  getSeriesOutlinePaint(int, int)  removePropertyChangeListener(PropertyChangeLi  stener)  addPropertyChangeListener(PropertyChangeListe  ner)  listeners  firePropertyChanged(String,Object,Object)  writeObject(ObjectOutputStream)  createTransformedShape(Shape, double, double)  readObject(ObjectInputStream)  getInfo()  setInfo(ChartRenderingInfo)  info  DEFAULT\_STROKE  AbstractRenderer()  DEFAULT\_SHAPE  DEFAULT\_PAINT  DEFAULT\_OUTLINE\_PAINT  static {}  DEFAULT\_OUTLINE\_STROKE |
| AbstractCategoryItemRenderer  [2] | AbstractCategoryItemRenderer\_new\_1 [AbstractRenderer\_new\_1]  [AreaRenderer, BarRenderer, HorizontalShapeRenderer, LineAndShapeRenderer, MinMaxCategoryRenderer\_new\_1] | getRowCount()  rowCount  setPlot(Plot)  getRangeType()  initialise(Graphics2D,Rectangle2D,CategoryPlot,C  hartRenderingInfo)  getLegendItem(int, int)  drawBackground(Graphics2D,CategoryPlot,Rectan  gle2D)  drawOutline(Graphics2D,CategoryPlot,Rectangle2  D)  drawRangeGridline(Graphics2D,CategoryPlot,Val  ueAxis,Rectangle2D, double)  equals(Object)  drawDomainGridline(Graphics2D,CategoryPlot,Re  ctangle2D, double)  drawRangeMarker(Graphics2D,CategoryPlot,Valu  eAxis,Marker,Rectangle2D)  getPlot()  getToolTipGenerator()  setToolTipGenerator(CategoryToolTipGenerator)  toolTipGenerator  getSeriesPaint(int, int)  getSeriesShape(int, int)  getSeriesStroke(int, int)  AbstractCategoryItemRenderer\_new\_2\_Instance |
| AbstractCategoryItemRenderer\_new\_2  [-]  [-] | getURLGenerator()  setURLGenerator(CategoryURLGenerator)  urlGenerator  getSeriesOutlinePaint(int, int)  firePropertyChanged(String,Object,Object)  AbstractCategoryItemRenderer(CategoryToolTipG  enerator,CategoryURLGenerator)  setInfo(ChartRenderingInfo)  columnCount  AbstractCategoryItemRenderer(CategoryURLGene  rator)  getColumnCount()  AbstractCategoryItemRenderer()  AbstractCategoryItemRenderer(CategoryToolTipG  enerator) |
| MinMaxCategoryRenderer  [2] | MinMaxCategoryRenderer\_new\_1  [AbstractCategoryItemRenderer\_new\_1]  [-] | min  getToolTipGenerator()  getItemPaint(int, int, int)  drawItem(Graphics2D,Rectangle2D,CategoryPlot,  CategoryAxis,ValueAxis,KeyedValues2DDataset,  int, int, int)  getInfo()  getItemStroke(int, int, int)  getColumnCount()  MinMaxCategoryRenderer()  drawLabel(Graphics2D,String, double,  double,Font, boolean, int)  shapeScale  MinMaxCategoryRenderer\_new\_2\_Instance |
| MinMaxCategoryRenderer\_new\_2  [-]  [-] | getMinIcon()  setMinIcon(Icon)  minIcon  drawRangeMarker(Graphics2D,CategoryPlot,Valu  eAxis,Marker,Rectangle2D,Shape)  getObjectIcon()  setObjectIcon(Icon)  objectIcon  getGroupStroke()  setGroupStroke(Stroke)  groupStroke  getGroupPaint()  setGroupPaint(Paint)  groupPaint  lastCategory  getIcon(Shape, boolean, boolean)  getIcon(Shape,Paint,Paint)  minValue  max  maxValue  setMaxIcon(Icon)  maxIcon  getMaxIcone()  isDrawLines()  plotLines  setDrawLines(boolean) |
| Axis  [3] | Axis\_new\_1  [-] [CategoryAxis\_new\_1, ValueAxis] | Axis(String)  equals(Object)  getTickLabelPaint()  setTickLabelPaint(Paint)  tickLabelPaint  getTickMarkStroke()  setTickMarkStroke(Stroke)  tickMarkStroke  getTickMarkPaint()  setTickMarkPaint(Paint)  tickMarkPaint  readObject(ObjectInputStream)  writeObject(ObjectOutputStream)  Axis\_new\_2\_Instance  Axis\_new\_3\_Instance |
| Axis\_new\_2  [-]  [-] | setTickMarksVisible(boolean)  tickMarksVisible  getTicks()  refreshTicks(Graphics2D,Rectangle2D,Rectangle2D  , int)  setFixedDimension(double)  setVisible(boolean)  setTickMarkOutsideLength(float)  tickMarkOutsideLength  getMaxTickLabelWidth(Graphics2D,Rectangle2D)  getTickLabelFont()  isTickMarksVisible()  draw(Graphics2D,Rectangle2D,Rectangle2D, int)  setTickLabelFont(Font)  setTickMarkInsideLength(float)  fixedDimension  visible  getTickMarkOutsideLength()  getTickMarkInsideLength()  tickLabelFont  tickMarkInsideLength  isVisible()  ticks  getFixedDimension() |
| Axis\_new\_3  [-]  [-] | notifyListeners(AxisChangeEvent)  removeChangeListener(AxisChangeListener)  addChangeListener(AxisChangeListener)  listenerList  getPlot()  setPlot(Plot)  plot  isCompatiblePlot(Plot)  configure()  getTickLabelInsets()  setTickLabelInsets(Insets)  tickLabelInsets  getLabel()  setLabel(String)  label  setTickLabelsVisible(boolean)  tickLabelsVisible  isTickLabelsVisible()  getLabelPaint()  setLabelPaint(Paint)  labelPaint  getLabelInsets()  setLabelInsets(Insets)  labelInsets  getLabelFont()  setLabelFont(Font)  labelFont  drawVerticalLabel(String,  boolean,Graphics2D,Rectangle2D,Rectangle2D, int)  drawHorizontalLabel(String,Graphics2D,Rectangle  2D,Rectangle2D, int, double) |
| VerticalNumberAxis  [2] | VerticalNumberAxis\_new\_1  [-]  [VerticalLogarithmicAxis\_new\_1, VerticalNumberAxis3D] | setVerticalLabel(boolean)  verticalLabel  calculateVisibleTickCount()  configure()  setRange(Range)  getTicks()  getLowerMargin()  isAutoRange()  setRangeAttribute(Range)  getUpperMargin()  isAutoTickUnitSelection()  isInverted()  calculateLowestVisibleTickValue()  setTickUnit(NumberTickUnit, boolean, boolean)  getStandardTickUnits()  getRange()  setMinimumAxisValue(double)  reserveWidth(Graphics2D,Plot,Rectangle2D, int,  double, int)  translateValueToJava2D(double,Rectangle2D)  reserveWidth(Graphics2D,Plot,Rectangle2D, int)  VerticalNumberAxis(String)  getNumberFormatOverride()  autoRangeStickyZero()  setMaximumAxisValue(double)  setStandardTickUnits(TickUnits)  draw(Graphics2D,Rectangle2D,Rectangle2D, int)  autoRangeIncludesZero()  getTickUnit()  getAutoRangeMinimumSize()  notifyListeners(AxisChangeEvent)  autoAdjustRange()  translateJava2DtoValue(float,Rectangle2D)  VerticalNumberAxis\_new\_2\_Instance |
| VerticalNumberAxis\_new\_2  [-]  [VerticalLogarithmicAxis\_new\_2] | getTickMarkInsideLength()  isTickMarksVisible()  getTickLabelPaint()  getTickMarkPaint()  getTickMarkStroke()  drawVerticalLabel(String,  boolean,Graphics2D,Rectangle2D,Rectangle2D, int)  getTickMarkOutsideLength()  getLabelFont()  getMaxTickLabelWidth(Graphics2D,Rectangle2D)  getFixedDimension()  getLabel()  isVisible()  isTickLabelsVisible()  getTickLabelFont()  refreshTicks(Graphics2D,Rectangle2D,Rectangle2D  , int)  selectAutoTickUnit(Graphics2D,Rectangle2D,Recta  ngle2D)  getTickLabelInsets()  getLabelInsets()  isCompatiblePlot(Plot)  getPlot()  DEFAULT\_VERTICAL\_LABEL  isVerticalLabel() |
| CategoryPlot  [3] | CategoryPlot\_new\_1  [-]  [-] | getParent()  getDataset()  datasetChanged(DatasetChangeEvent)  readObject(ObjectInputStream)  getBackgroundImage()  CategoryPlot(CategoryDataset,CategoryAxis,Value  Axis,CategoryItemRenderer)  notifyListeners(PlotChangeEvent)  getOutlinePaint()  zoom(double)  getBackgroundPaint()  getForegroundAlpha()  getBackgroundAlpha()  writeObject(ObjectOutputStream)  getOutlineStroke()  drawBackground(Graphics2D,Rectangle2D)  getLegendItems()  drawOutline(Graphics2D,Rectangle2D)  getSecondaryDataset()  getRenderer()  setRenderer(CategoryItemRenderer)  renderer  setRenderer(CategoryItemRenderer, boolean)  CategoryPlot\_new\_2\_Instance  CategoryPlot\_new\_3\_Instance |
| CategoryPlot\_new\_2  [-]  [-] | rangeAnchor  setRangeGridlinesVisible(boolean)  rangeGridlinesVisible  rangeCrosshairStroke  getAnnotations()  setRangeAxis(ValueAxis)  getRangeCrosshairPaint()  rangeCrosshairLockedOnData  getRangeCrosshairStroke()  getValueLabelPaint()  addAnnotation(CategoryAnnotation)  isRangeGridlinesVisible()  setRangeCrosshairPaint(Paint)  domainGridlinesVisible  getRangeAxis()  setRangeCrosshairLockedOnData(boolean)  isRangeCrosshairLockedOnData()  setVerticalValueLabels(boolean)  verticalValueLabels  rangeAxis  getVerticalValueLabels()  valueLabelPaint  setRangeCrosshairStroke(Stroke)  isDomainGridlinesVisible()  setValueLabelPaint(Paint)  annotations  rangeCrosshairPaint  setDomainGridlinesVisible(boolean) |
| CategoryPlot\_new\_3  [-]  [-] | getSecondaryRangeAxis()  setSecondaryRangeAxis(ValueAxis)  secondaryRangeAxis  isCompatibleRangeAxis(ValueAxis)  getRangeAxisLocation()  setRangeAxisLocation(int, boolean)  rangeAxisLocation  setRangeAxisLocation(int)  clearRangeMarkers()  getRangeMarkers()  rangeMarkers  addRangeMarker(Marker)  getDomainAxisLocation()  setDomainAxisLocation(int, boolean)  domainAxisLocation  setDomainAxisLocation(int)  getSecondaryRenderer()  setSecondaryRenderer(CategoryItemRenderer)  secondaryRenderer  getSecondaryCategoryDataset()  getCategoryDataset()  getDomainAxis()  setDomainAxis(CategoryAxis)  domainAxis  isCompatibleDomainAxis(CategoryAxis)  getDomainGridlinePaint()  setDomainGridlinePaint(Paint)  domainGridlinePaint  getDomainGridlineStroke()  setDomainGridlineStroke(Stroke)  domainGridlineStroke  getRangeGridlineStroke()  setRangeGridlineStroke(Stroke)  rangeGridlineStroke  getRangeGridlinePaint()  setRangeGridlinePaint(Paint)  rangeGridlinePaint  getRangeCrosshairValue()  setRangeCrosshairValue(double)  rangeCrosshairValue  setRangeCrosshairValue(double, boolean)  setRangeCrosshairVisible(boolean)  rangeCrosshairVisible  isRangeCrosshairVisible()  getValueLabelsVisible()  setValueLabelsVisible(boolean)  valueLabelsVisible  setLabelsVisible(boolean)  getValueLabelFont()  setValueLabelFont(Font)  valueLabelFont  valueLabelFormatPattern  getValueLabelFormatter()  valueLabelFormatter  setValueLabelFormatString(String) |
| XYPlot  [5] | XYPlot\_new\_1  [-]  [CombinedXYPlot\_new\_1, OverlaidXYPlot] | getDomainAxis()  setDomainAxis(ValueAxis)  domainAxis  setInsets(Insets)  drawBackground(Graphics2D,Rectangle2D)  getSecondaryDataset()  readObject(ObjectInputStream)  getInsets()  getDatasetGroup()  equals(Object)  setDatasetGroup(DatasetGroup)  getDataset()  getOutlinePaint()  datasetChanged(DatasetChangeEvent)  zoom(double)  getRectX(double, double, double, int)  draw(Graphics2D,Rectangle2D,ChartRenderingInf  o)  drawNoDataMessage(Graphics2D,Rectangle2D)  getForegroundAlpha()  getVerticalValueAxis()  getOppositeAxisLocation(int)  getOutlineStroke()  XYPlot(XYDataset,ValueAxis,ValueAxis,XYItemRe  nderer)  getHorizontalValueAxis()  getHorizontalDataRange(ValueAxis)  notifyListeners(PlotChangeEvent)  getVerticalDataRange(ValueAxis)  writeObject(ObjectOutputStream)  setParent(Plot)  getPlotType()  drawOutline(Graphics2D,Rectangle2D)  static {}  getLegendItems()  getParent()  getRectY(double, double, double, int)  handleClick(int, int,ChartRenderingInfo)  setRangeGridlinesVisible(boolean)  rangeGridlinesVisible  isRangeGridlinesVisible()  setDomainGridlinesVisible(boolean)  domainGridlinesVisible  isDomainGridlinesVisible()  XYPlot\_new\_2\_Instance  XYPlot\_new\_3\_Instance  XYPlot\_new\_4\_Instance  XYPlot\_new\_5\_Instance |
| XYPlot\_new\_2  [-]  [-] | getRangeAxisLocation()  setRangeAxisLocation(int, boolean)  rangeAxisLocation  setRangeAxisLocation(int)  getDomainAxisLocation()  setDomainAxisLocation(int, boolean)  domainAxisLocation  setDomainAxisLocation(int) |
| XYPlot\_new\_3  [-]  [CombinedXYPlot\_new\_2] | getRangeAxis()  setRangeAxis(ValueAxis)  rangeAxis  getHorizontalAxis()  getWeight()  setWeight(int)  weight  getVerticalAxis() |
| XYPlot\_new\_4  [-]  [-] | XYPlot(XYDataset,ValueAxis,ValueAxis)  getSeriesCount()  DEFAULT\_GRIDLINE\_STROKE  DEFAULT\_CROSSHAIR\_PAINT  DEFAULT\_CROSSHAIR\_STROKE  DEFAULT\_GRIDLINE\_PAINT  setRangeCrosshairVisible(boolean)  rangeCrosshairVisible  isRangeCrosshairVisible()  setDomainCrosshairVisible(boolean)  domainCrosshairVisible  isDomainCrosshairVisible()  getDomainCrosshairStroke()  setDomainCrosshairStroke(Stroke)  domainCrosshairStroke  getRangeCrosshairStroke()  setRangeCrosshairStroke(Stroke)  rangeCrosshairStroke  getRangeCrosshairPaint()  setRangeCrosshairPaint(Paint)  rangeCrosshairPaint  getDomainCrosshairPaint()  setDomainCrosshairPaint(Paint)  domainCrosshairPaint  getXYDataset()  getRangeCrosshairValue()  setRangeCrosshairValue(double, boolean)  rangeCrosshairValue  getDomainCrosshairValue()  setDomainCrosshairValue(double, boolean)  domainCrosshairValue  drawVerticalLine(Graphics2D,Rectangle2D,  double,Stroke,Paint)  drawHorizontalLine(Graphics2D,Rectangle2D  , double,Stroke,Paint)  getRenderer()  setRenderer(XYItemRenderer)  renderer  render(Graphics2D,Rectangle2D,ChartRenderingIn  fo,CrosshairInfo) |
| XYPlot\_new\_5  [-]  [-] | rangeGridlinePaint  getSecondaryRangeAxis()  clearRangeMarkers()  getRangeGridlinePaint()  isCompatibleDomainAxis(ValueAxis)  isCompatibleRangeAxis(ValueAxis)  addAnnotation(XYAnnotation)  getSecondaryXYDataset()  secondaryRenderer  setSecondaryRangeAxis(ValueAxis)  clearDomainMarkers()  domainGridlineStroke  isRangeCrosshairLockedOnData()  getRangeGridlineStroke()  isDomainCrosshairLockedOnData()  domainCrosshairLockedOnData  render2(Graphics2D,Rectangle2D,ChartRenderingI  nfo,CrosshairInfo)  setRangeCrosshairLockedOnData(boolean)  getSecondaryRenderer()  domainMarkers  domainGridlinePaint  secondaryRangeAxis  setDomainGridlineStroke(Stroke)  clearSecondaryRangeMarkers()  setDomainCrosshairValue(double)  setRangeGridlineStroke(Stroke)  setRangeCrosshairValue(double)  setRangeGridlinePaint(Paint)  secondaryRangeMarkers  getDomainGridlineStroke()  DEFAULT\_CROSSHAIR\_VISIBLE  rangeCrosshairLockedOnData  clearAnnotations()  rangeMarkers  setSecondaryRenderer(XYItemRenderer)  addDomainMarker(Marker)  getDomainGridlinePaint()  addSecondaryRangeMarker(Marker)  setDomainCrosshairLockedOnData(boolean)  setDomainGridlinePaint(Paint)  annotations  addRangeMarker(Marker)  propertyChange(PropertyChangeEvent)  rangeGridlineStroke |
| CategoryAxis  [2] | CategoryAxis\_new\_1  [Axis\_new\_1]  [-] | getLowerMargin()  setLowerMargin(double)  lowerMargin  CategoryAxis(String)  equals(Object)  getCategoryMiddle(int, int,Rectangle2D)  setTickMarksVisible(boolean)  draw(Graphics2D,Rectangle2D,Rectangle2D, int)  getCategoryStart(int, int,Rectangle2D)  getCategoryEnd(int, int,Rectangle2D)  CategoryAxis\_new\_2\_Instance |
| CategoryAxis\_new\_2  [-]  [-] | getUpperMargin()  setUpperMargin(double)  upperMargin  setPlot(Plot)  configure()  removeChangeListener(AxisChangeListener)  notifyListeners(AxisChangeEvent)  addChangeListener(AxisChangeListener)  categoryMargin  DEFAULT\_CATEGORY\_MARGIN  setCategoryMargin(double)  DEFAULT\_AXIS\_MARGIN  getCategoryMargin() |
| PiePlot  [3] | PiePlot\_new\_1  [-]  [Pie3DPlot\_new\_1] | getInteriorGap()  setInteriorGap(double)  interiorGap  DEFAULT\_SERIES\_LABEL\_PAINT  DEFAULT\_SERIES\_LABEL\_FONT  DEFAULT\_VALUE\_FORMATTER  DEFAULT\_SECTION\_LABEL\_FONT  DEFAULT\_SECTION\_LABEL\_PAINT  DEFAULT\_PERCENT\_FORMATTER  getMinimumArcAngleToDraw()  setMinimumArcAngleToDraw(double)  minimumArcAngleToDraw  getSectionLabelFont()  setSectionLabelFont(Font)  sectionLabelFont  getArcBounds(Rectangle2D,Rectangle2D, double,  double, double)  initialise()  getSectionLabelType()  setSectionLabelType(int)  sectionLabelType  getDirection()  setDirection(int)  direction  drawLabel(Graphics2D,Rectangle2D,Rectangle2D,  PieDataset, double, int, double, double)  drawPie(Graphics2D,Rectangle2D,ChartRendering  Info, int,PieDataset,String)  PiePlot\_new\_2\_Instance  PiePlot\_new\_3\_Instance |
| PiePlot\_new\_2  [-]  [-] | sectionLabelPaint  NAME\_LABELS  NAME\_AND\_VALUE\_LABELS  MAX\_SECTION\_LABEL\_GAP  setRadius(double)  DEFAULT\_RADIUS  percentFormatter  setStartAngle(double)  setSectionLabelPaint(Paint)  setValueFormatString(String)  DEFAULT\_SECTION\_LABEL\_GAP  setValueFormat(NumberFormat)  PER\_ROW  setSeriesLabelPaint(Paint)  DEFAULT\_SHOW\_SERIES\_LABELS  MAX\_INTERIOR\_GAP  VALUE\_LABELS  DEFAULT\_MINIMUM\_ARC\_ANGLE\_TO\_DRAW  NAME\_AND\_PERCENT\_LABELS  valueFormatter  seriesLabelPaint  getStartAngle()  PERCENT\_LABELS  PER\_COLUMN  DEFAULT\_INTERIOR\_GAP  ANTICLOCKWISE  DEFAULT\_SECTION\_LABEL\_TYPE  DEFAULT\_DIRECTION  setPercentFormatString(String)  DEFAULT\_START\_ANGLE  radius  NO\_LABELS  setPercentFormat(NumberFormat)  getSeriesLabelPaint()  MAX\_RADIUS  getSectionLabelPaint()  startAngle  VALUE\_AND\_PERCENT\_LABELS  getRadius()  CLOCKWISE |
| PiePlot\_new\_3  [-]  [-] | getShowSeriesLabels()  setShowSeriesLabels(boolean)  showSeriesLabels  extractType  getSectionLabelGap()  setSectionLabelGap(double)  sectionLabelGap  calculateLabelLocation(Rectangle2D,  double,Rectangle2D,Rectangle2D, double, double,  double)  setCircular(boolean)  circular  isCircular()  setCircularAttribute(boolean)  getKeys()  getPieDataset()  getExplodePercent(int)  setExplodePercent(int, double)  explodePercentages  getURLGenerator()  setURLGenerator(PieURLGenerator)  urlGenerator  getToolTipGenerator()  setToolTipGenerator(PieToolTipGenerator)  toolTipGenerator  getDefaultOutlineStroke()  setDefaultOutlineStroke(Stroke)  defaultOutlineStroke  getOutlineStroke(int)  setOutlineStrokeTableActive(boolean)  outlineStrokeTableActive  isOutlineStrokeTableActive()  outlineStrokeTable  setOutlineStroke(int,Stroke)  getDefaultPaint()  setDefaultPaint(Paint)  defaultPaint  getPaint(int)  paintTable  setPaint(int,Paint)  setPaintTableActive(boolean)  paintTableActive  isPaintTableActive()  getDefaultOutlinePaint()  setDefaultOutlinePaint(Paint)  defaultOutlinePaint  setOutlinePaint(int,Paint)  outlinePaintTable  setOutlinePaintTableActive(boolean)  outlinePaintTableActive  isOutlinePaintTableActive()  getOutlinePaint(int)  supplier  getSeriesLabelFont()  setSeriesLabelFont(Font)  seriesLabelFont  notifyListeners(PlotChangeEvent)  drawOutline(Graphics2D,Rectangle2D)  getForegroundAlpha()  setInsets(Insets)  drawNoDataMessage(Graphics2D,Rectangle2D)  zoom(double)  readObject(ObjectInputStream)  writeObject(ObjectOutputStream)  equals(Object)  PiePlot(KeyedValuesDataset)  draw(Graphics2D,Rectangle2D,ChartRenderingInf  o)  getDataset()  static {}  getInsets()  getPlotType()  drawBackground(Graphics2D,Rectangle2D)  getLegendItems()  PiePlot(KeyedValues2DDataset, int) |
| VerticalLogarithmicAxis  [3] | VerticalLogarithmicAxis\_new\_1 [VerticalNumberAxis\_new\_1]  [-] | computeLogCeil(double)  setRange(Range)  VerticalLogarithmicAxis(String)  translateValueToJava2D(double,Rectangle2D)  getTicks()  static {}  setMaximumAxisValue(double)  isInverted()  setMinimumAxisValue(double)  translateJava2DtoValue(float,Rectangle2D)  reserveWidth(Graphics2D,Plot,Rectangle2D, int)  setRangeAttribute(Range)  autoAdjustRange()  getAutoRangeMinimumSize()  getRange()  VerticalLogarithmicAxis\_new\_2\_Instance  VerticalLogarithmicAxis\_new\_3\_Instance |
| VerticalLogarithmicAxis\_new\_2  [-]  [-] | getLog10TickLabelsFlag()  setLog10TickLabelsFlag(boolean)  log10TickLabelsFlag  getPlot()  refreshTicks(Graphics2D,Rectangle2D,Rectangle2D  , int)  getTickLabelFont()  getTickLabelInsets() |
| VerticalLogarithmicAxis\_new\_3  [-]  [-] | SMALL\_LOG\_VALUE  getAllowNegativesFlag()  smallLogFlag  allowNegativesFlag  setupSmallLogFlag()  LOG10\_VALUE  switchedLog10(double)  setAllowNegativesFlag(boolean)  numberFormatterObj  computeLogFloor(double)  adjustedLog10(double) |
| CombinedXYPlot  [2] | CombinedXYPlot\_new\_1  [XYPlot\_new\_1]  [-] | getSubPlots()  subplots  getVerticalDataRange(ValueAxis)  getInsets()  draw(Graphics2D,Rectangle2D,ChartRenderingInf  o)  getLegendItems()  getHorizontalDataRange(ValueAxis)  getDomainAxis()  equals(Object)  setHorizontalAxisHeight (double)  getPlotType()  zoom(double)  getRangeAxisLocation()  getDomainAxisLocation()  getGap()  setGap(double)  gap  setRenderer(XYItemRenderer)  CombinedXYPlot(ValueAxis, int)  add(XYPlot)  setXYItemRenderer(XYItemRenderer)  VERTICAL  HORIZONTAL  CombinedXYPlot\_new\_2\_Instance |
| CombinedXYPlot\_new\_2  [XYPlot\_new\_3]  [-] | totalWeight  getVerticalAxis()  getRangeAxis()  setVerticalAxisWidth(double)  getHorizontalAxis()  add(XYPlot, int)  isValidSubVerticalAxis(Axis)  isValidSubHorizontalAxis(Axis)  type |
| DateAxis  [2] | DateAxis\_new\_1  [ValueAxis]  [-] | DEFAULT\_DATE\_TICK\_UNIT  setRangeAttribute(Range)  setRange(Range)  notifyListeners(AxisChangeEvent)  setAutoRange(boolean, boolean)  setAutoTickUnitSelection(boolean, boolean)  getRange()  setAutoRangeMinimumSize(double)  static {}  DateAxis(String)  setRange(double, double)  setAnchorValue(double)  getAnchorDate()  setAnchorDate(Date)  anchorDate  DateAxis\_new\_2\_Instance |
| DateAxis\_new\_2  [-]  [-] | getTickUnit()  setTickMarksAtStartOfUnit(boolean)  calculateLowestVisibleTickValue(DateTickUnit)  DEFAULT\_AUTO\_RANGE\_MINIMUM\_SIZE\_IN\_  MILLISECONDS  setDateFormatOverride(DateFormat)  tickMarksAtStartOfUnit  setRange(Date,Date)  tickUnit  dateFormatOverride  setAxisRange(double, double)  calculateHighestVisibleTickValue(DateTickUnit)  getDateFormatOverride()  DEFAULT\_ANCHOR\_DATE  isTickMarksAtStartOfUnit()  getMinimumDate()  DEFAULT\_DATE\_RANGE  setTickUnit(DateTickUnit)  getMaximumDate()  previousStandardDate(Date,DateTickUnit)  setMinimumDate(Date)  setMaximumDate(Date)  setTickUnit(DateTickUnit, boolean, boolean)  createStandardDateTickUnits()  nextStandardDate(Date,DateTickUnit) |
| NumberAxis  [2] | NumberAxis\_new\_1  [ValueAxis]  [-] | DEFAULT\_TICK\_UNIT  getRange()  setPlot(Plot)  draw(Graphics2D,Rectangle2D,Rectangle2D, int)  NumberAxis(String)  getMaximumAxisValue()  setMinimumAxisValue(double)  static {}  removeChangeListener(AxisChangeListener)  addChangeListener(AxisChangeListener)  autoAdjustRange()  notifyListeners(AxisChangeEvent)  isAutoRange()  setAutoTickUnitSelection(boolean, boolean)  setStandardTickUnits(TickUnits)  isInverted()  getMinimumAxisValue()  setAutoRange(boolean)  configure()  setMaximumAxisValue(double)  getTickUnit()  setTickUnit(NumberTickUnit)  tickUnit  setTickUnit(NumberTickUnit, boolean, boolean)  NumberAxis\_new\_2\_Instance |
| NumberAxis\_new\_2  [-]  [-] | autoRangeIncludesZero  autoRangeStickyZero  setAutoRangeIncludesZero(boolean)  numberFormatOverride  createStandardTickUnits(Locale)  autoRangeStickyZero()  autoRangeIncludesZero()  DEFAULT\_AUTO\_RANGE\_STICKY\_ZERO  DEFAULT\_AUTO\_RANGE\_INCLUDES\_ZERO  setAutoRangeStickyZero(boolean)  createIntegerTickUnits()  setNumberFormatOverride(NumberFormat)  calculateVisibleTickCount()  calculateHighestVisibleTickValue()  createStandardTickUnits()  getNumberFormatOverride()  calculateLowestVisibleTickValue()  createIntegerTickUnits(Locale) |
| Pie3DPlot  [2] | Pie3DPlot\_new\_1  [PiePlot\_new\_1]  [-] | drawSide(Graphics2D,Rectangle2D,Arc2D,Area,Ar  ea,Paint, boolean, boolean)  getMinimumArcAngleToDraw()  getDirection()  getSectionLabelType()  getInteriorGap()  drawLabel(Graphics2D,Rectangle2D,Rectangle2D,  PieDataset, double, int, double, double)  isAngleAtFront(double)  isAngleAtBack(double)  getStartAngle()  getRadius()  Pie3DPlot\_new\_2\_Instance |
| Pie3DPlot\_new\_2  [-]  [-] | getDepthFactor()  setDepthFactor(double)  depthFactor  Pie3DPlot(PieDataset)  drawBackground(Graphics2D,Rectangle2D)  setCircularAttribute(boolean)  setURLGenerator(PieURLGenerator)  drawOutline(Graphics2D,Rectangle2D)  getPieDataset()  setToolTipGenerator(PieToolTipGenerator)  setInsets(Insets)  getForegroundAlpha()  getPaint(int)  getPlotType()  getOutlinePaint(int)  getToolTipGenerator()  getInsets()  draw(Graphics2D,Rectangle2D,ChartRenderingInf  o)  getURLGenerator()  isCircular() |
| ChartEntity  [2] | ChartEntity\_new\_1 [] [ContourEntity, PieSectionEntity, XYItemEntity] | getImageMapAreaTag()  getToolTipText()  setToolTipText(String)  toolTipText  getURLText()  setURLText(String)  urlText  getImageMapAreaTag(boolean)  ChartEntity(Shape,String,String)  ChartEntity(Shape,String)  ChartEntity\_new\_2\_Instance |
| ChartEntity\_new\_2  [-]  [-] | getRectCoords(Rectangle2D)  getArea()  setArea(Shape)  area  getShapeType()  getShapeCoords()  getPolyCoords(Shape) |
| MeterNeedle  [3] | MeterNeedle\_new\_1 [] [ArrowNeedle, LineNeedle, LongNeedle, PinNeedle, PlumNeedle, PointerNeedle, ShipNeedle] | draw(Graphics2D,Rectangle2D)  draw(Graphics2D,Rectangle2D,Point2D, double)  drawNeedle(Graphics2D,Rectangle2D,Point2D,  double)  MeterNeedle()  MeterNeedle(Paint,Paint,Paint)  getRotateX()  setRotateX(double)  rotateX  getRotateY()  setRotateY(double)  rotateY  draw(Graphics2D,Rectangle2D, double)  MeterNeedle\_new\_2\_Instance  MeterNeedle\_new\_3\_Instance |
| MeterNeedle\_new\_2  [-]  [-] | getFillPaint()  setFillPaint(Paint)  fillPaint  getOutlinePaint()  setOutlinePaint(Paint)  outlinePaint  getOutlineStroke()  setOutlineStroke(Stroke)  outlineStroke  defaultDisplay(Graphics2D,Shape) |
| MeterNeedle\_new\_3  [-]  [-] | setHighlightPaint(Paint)  getSize()  getHighlightPaint()  transform  setSize(int)  highlightPaint  size  static {}  getTransform()  ANGLE180 |
| DefaultKeyedValues2DDataset  [2] | DefaultKeyedValues2DDataset\_new\_1  [-]  [DefaultCategoryDataset] | data  getColumnIndex(Comparable)  getColumnKey(int)  getColumnKeys()  getRowCount()  equals(Object)  getRowKeys()  getValue(Comparable,Comparable)  getRowKey(int)  fireDatasetChanged()  getRowIndex(Comparable)  DefaultKeyedValues2DDataset()  getValue(int, int)  getColumnCount()  DefaultKeyedValues2DDataset\_new\_2\_Instance |
| DefaultKeyedValues2DDataset\_new\_2  [-]  [-] | setValue(double,Comparable,Comparable)  addValue(Number,Comparable,Comparable)  setValue(Number,Comparable,Comparable)  removeRow(int)  removeRow(Comparable)  removeValue(Comparable,Comparable)  removeColumn(Comparable)  removeColumn(int)  addValue(double,Comparable,Comparable) |