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reportlab.graphics

eanbc

Classes

Ean13BarcodeWidget(PlotArea)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

barFillColor bar color

barHeight Height of bars.

barStrokeColor Color of bar borders.

barStrokeWidth Width of bar borders.

barWidth Width of bars.

debug Used only for debugging.

fillColor Color of the plot area interior.

fontName fontName

fontSize font size

height Height of the chart.

humanReadable if human readable

Iquiet left quiet zone length

quiet if quiet zone to be used

rquiet right quiet zone length

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

textColor human readable text color

value the number

width Width of the chart.

x x-coord

y y-coord

Example

```
def demo(self):
   msg = "demo() must be implemented for each Widget!"
   raise shapes.NotImplementedError, msg
```

```
value = '123456789012'
```

Ean8BarcodeWidget(Ean13BarcodeWidget)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

barFillColor bar color

barHeight Height of bars.

barStrokeColor Color of bar borders.

barStrokeWidth Width of bar borders.

barWidth Width of bars.

debug Used only for debugging.

fillColor Color of the plot area interior.

fontName fontName

fontSize font size

height Height of the chart.

humanReadable if human readable

Iquiet left quiet zone length

quiet if quiet zone to be used

rquiet right quiet zone length

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

textColor human readable text color

value the number

width Width of the chart.

x x-coord

y y-coord

Example

```
def demo(self):
   msg = "demo() must be implemented for each Widget!"
   raise shapes.NotImplementedError, msg
```

```
value = '1234567'
```

UPCA(Ean13BarcodeWidget)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

barFillColor bar color

barHeight Height of bars.

barStrokeColor Color of bar borders.

barStrokeWidth Width of bar borders.

barWidth Width of bars.

debug Used only for debugging.

fillColor Color of the plot area interior.

fontName fontName

fontSize font size

height Height of the chart.

humanReadable if human readable

Iquiet left quiet zone length

quiet if quiet zone to be used

rquiet right quiet zone length

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

textColor human readable text color

value the number

width Width of the chart.

x x-coord

y y-coord

Example

```
def demo(self):
   msg = "demo() must be implemented for each Widget!"
   raise shapes.NotImplementedError, msg
```

```
value = '12345678901'
```

qr

```
# QRCode for Python
#
# Ported from the Javascript library by Sam Curren
# ReportLab module by German M. Bravo
#
# QRCode for Javascript
# http://d-project.googlecode.com/svn/trunk/misc/qrcode/js/qrcode.js
#
# Copyright (c) 2009 Kazuhiko Arase
#
# URL: http://www.d-project.com/
#
# Licensed under the MIT license:
# http://www.opensource.org/licenses/mit-license.php
#
# The word "QR Code" is registered trademark of
# DENSO WAVE INCORPORATED
# http://www.denso-wave.com/grcode/fagpatent-e.html
```

Classes

QrCodeWidget(PlotArea)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

barBorder Width of QR border.

barFillColor bar color

barHeight Height of bars.

barLevel QR Code level.

barStrokeColor Color of bar borders.

barStrokeWidth Width of bar borders.

barWidth Width of bars.

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

value the text

width Width of the chart.

x x-coord

y y-coord

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
```

raise shapes.NotImplementedError, msg

Properties of Example Widget

value = 'Hello World'

areas

This module defines a Area mixin classes

Classes

PlotArea(Widget)

Abstract base class representing a chart's plot area, pretty unusable by itself.

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
background = None
debug = 0
fillColor = None
height = 85
strokeColor = None
strokeWidth = 1
width = 180
x = 20
y = 10
```

axes

Collection of axes for charts.

The current collection comprises axes for charts using cartesian coordinate systems. All axes might have tick marks and labels. There are two dichotomies for axes: one of X and Y flavours and another of category and value flavours.

Category axes have an ordering but no metric. They are divided into a number of equal-sized buckets. Their tick marks or labels, if available, go BETWEEN the buckets, and the labels are placed below to/left of the X/Y-axis, respectively.

Value axes have an ordering AND metric. They correspond to a numeric quantity. Value axis have a real number quantity associated with it. The chart tells it where to go.

The most basic axis divides the number line into equal spaces and has tickmarks and labels associated with each; later we will add variants where you can specify the sampling interval.

The charts using axis tell them where the labels should be placed.

Axes of complementary X/Y flavours can be connected to each other in various ways, i.e. with a specific reference point, like an x/value axis to a y/value (or category) axis. In this case the connection can be either at the top or bottom of the former or at any absolute value (specified in points) or at some value of the former axes in its own coordinate system.

Classes

AdjYValueAxis(YValueAxis)

A Y-axis applying additional rules.

Depending on the data and some built-in rules, the axis may choose to adjust its range and origin.

Public Attributes

abf_ignore_zero Set to True to make the avoidBoundFrac calculations treat zero as non-special

annotations list of annotations

avoidBoundFrac Fraction of interval to allow above and below.

avoidBoundSpace Space to allow above and below.

drawGridLast if true draw gridlines after everything else.

forceZero Ensure zero in range if true.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('left', 'right', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

keepTickLabelsInside Ensure tick labels do not project beyond bounds of axis if true

labelAxisMode Like joinAxisMode, but for the axis labels

labelTextFormat Formatting string or function used for axis labels.

labelTextPostFormat Extra Formatting string.

labelTextScale Scaling for label tick values.

labelVOffset add this to the labels

labels Handle of the axis labels.

leftAxisOrigShiftIPC Lowest label shift interval ratio.

leftAxisOrigShiftMin Minimum amount to shift.

leftAxisPercent When true add percent sign to label values.

leftAxisSkipLL0 Skip/Keep lowest tick label when true/false. Or skiplist

loLLen extra line length before start of the axis

maximumTicks Maximum number of ticks.

minimumTickSpacing Minimum value for distance between ticks.

origShiftIPC Lowest label shift interval ratio.

origShiftMin Minimum amount to shift.

origShiftSpecialValue special value for shift

rangeRound How to round the axis limits

requiredRange Minimum required value range.

reverseDirection If true reverse category direction.

skipEndL Skip high/low tick labels

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How values are plotted!

subGridEnd End of grid lines wrt axis origin

subGridStart Start of grid lines wrt axis origin

subGridStrokeColor Color of grid lines.

subGridStrokeDashArray Dash array used for grid lines.

subGridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

subGridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

subGridStrokeMiterLimit Grid miter limit control miter line joins

subGridStrokeWidth Width of grid lines.

subTickHi sub tick up or right

subTickLo sub tick down or left

subTickNum Number of axis sub ticks, if >0

tickAxisMode Like joinAxisMode, but for the ticks

tickLeft Tick length left of the axis.

tickRight Tick length right of the axis.

valueMax Maximum value on axis.

valueMin Minimum value on axis.

valueStep Step size used between ticks.

valueSteps List of step sizes used between ticks.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleSubGrid Display axis sub grid, if true.

visibleSubTicks Display axis sub ticks, if true.

visibleTicks Display axis ticks, if true.

zrangePref Zero range axis limit preference.

Example

```
def demo(self):
   data = [(10, 20, 30, 42)]
   self.setPosition(100, 10, 80)
   self.configure(data)

   drawing = Drawing(200, 100)
   drawing.add(self)
   return drawing
```

```
abf_ignore_zero = False
avoidBoundFrac = None
avoidBoundSpace = None
drawGridLast = False
forceZero = 0
gridEnd = None
gridStart = None
gridStrokeColor = Color(0,0,0,1)
gridStrokeDashArray = None
gridStrokeLineCap = 0
```

```
gridStrokeLineJoin = 0
gridStrokeMiterLimit = 10
gridStrokeWidth = 0.25
hiLLen = 0
joinAxis = None
joinAxisMode = None
joinAxisPos = None
keepTickLabelsInside = 0
labelAxisMode = 'axis'
labelTextFormat = None
labelTextPostFormat = None
labelTextScale = None
labelVOffset = 0
labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x048C9738>
leftAxisOrigShiftIPC = 0.15
leftAxisOrigShiftMin = 12
leftAxisPercent = 1
leftAxisSkipLL0 = 0
loLLen = 0
maximumTicks = 7
minimumTickSpacing = 10
origShiftIPC = None
origShiftMin = None
origShiftSpecialValue = None
rangeRound = 'none'
requiredRange = 30
reverseDirection = 0
skipEndL = 'none'
strokeColor = Color(0,0,0,1)
strokeDashArray = None
strokeLineCap = 0
strokeLineJoin = 0
strokeMiterLimit = 10
strokeWidth = 1
style = 'normal'
subGridEnd = None
subGridStart = None
subGridStrokeColor = Color(0,0,0,1)
subGridStrokeDashArray = None
subGridStrokeLineCap = 0
subGridStrokeLineJoin = 0
subGridStrokeMiterLimit = 10
subGridStrokeWidth = 0.25
subTickHi = 0
subTickLo = 0
subTickNum = 0
tickAxisMode = 'axis'
tickLeft = 5
tickRight = 0
valueMax = None
valueMin = None
valueStep = None
valueSteps = None
visible = 1
visibleAxis = 1
visibleGrid = 0
visibleLabels = 1
visibleSubGrid = 0
visibleSubTicks = 0
visibleTicks = 1
zrangePref = 0
```

CALabel (PMVLabel)

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

height the height of the text

labelPosFrac where in the category range [0,1] the labels should be anchored

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

У

Example

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""
    d = Drawing(200, 100)
# mark the origin of the label
```

```
d.add(Circle(100,90, 5, fillColor=colors.green))
lab = Label()
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)
return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
height = None
labelPosFrac = 0.5
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
x = 0
```

CategoryAxis(_AxisG)

Abstract category axis, unusable in itself.

Public Attributes

annotations list of annotations

categoryNames List of category names.

drawGridLast if true draw gridlines after everything else.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

hiPad extra inner space after end of the axis

joinAxis Join both axes if true.

joinAxisPos Position at which to join with other axis.

labelAxisMode Like joinAxisMode, but for the axis labels

labels Handle of the axis labels.

IoLLen extra line length before start of the axis

loPad extra inner space before start of the axis

reverseDirection If true reverse category direction.

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How common category bars are plotted

tickShift Tick shift typically

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleTicks Display axis ticks, if true.

NormalDateXValueAxis(XValueAxis)

An X axis applying additional rules.

Depending on the data and some built-in rules, the axis displays normalDate values as nicely formatted dates.

The client chart should have NormalDate X values.

Public Attributes

abf_ignore_zero Set to True to make the avoidBoundFrac calculations treat zero as non-special

annotations list of annotations

avoidBoundFrac Fraction of interval to allow above and below.

avoidBoundSpace Space to allow above and below.

bottomAxisLabelSlack Fractional amount used to adjust label spacing

dailyFreq True if we are to assume daily data to be ticked at end of month.

dayOfWeekName Weekday names.

drawGridLast if true draw gridlines after everything else.

forceDatesEachYear List of dates in format "31-Dec", "1-Jan". If present they will always be used for tick marks in the current year, rather than the dates chosen by the automatic algorithm. Hyphen compulsory, case of month optional.

forceEndDate Flag for enforced displaying of last date value.

forceFirstDate Flag for enforced displaying of first date value.

forceZero Ensure zero in range if true.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('bottom', 'top', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

keepTickLabelsInside Ensure tick labels do not project beyond bounds of axis if true

labelAxisMode Like joinAxisMode, but for the axis labels

labelTextFormat Formatting string or function used for axis labels.

labelTextPostFormat Extra Formatting string.

labelTextScale Scaling for label tick values.

labels Handle of the axis labels.

IoLLen extra line length before start of the axis

maximumTicks Maximum number of ticks.

minimumTickSpacing Minimum value for distance between ticks.

monthName Month names.

niceMonth Flag for displaying months 'nicely'.

origShiftIPC Lowest label shift interval ratio.

origShiftMin Minimum amount to shift.

origShiftSpecialValue special value for shift

rangeRound How to round the axis limits

requiredRange Minimum required value range.

reverseDirection If true reverse category direction.

skipEndL Skip high/low tick labels

skipGrid grid lines to skip top bottom both none

specialTickClear clear rather than delete close ticks when forced first/end dates

specifiedTickDates Actual tick values to use; no calculations done

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How values are plotted!

subGridEnd End of grid lines wrt axis origin

subGridStart Start of grid lines wrt axis origin

subGridStrokeColor Color of grid lines.

subGridStrokeDashArray Dash array used for grid lines.

subGridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

subGridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

subGridStrokeMiterLimit Grid miter limit control miter line joins

subGridStrokeWidth Width of grid lines.

subTickHi sub tick up or right

subTickLo sub tick down or left

subTickNum Number of axis sub ticks, if >0

tickAxisMode Like joinAxisMode, but for the ticks

tickDown Tick length down the axis.

tickUp Tick length up the axis.

valueMax Maximum value on axis.

valueMin Minimum value on axis.

valueStep Step size used between ticks.

valueSteps List of step sizes used between ticks.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleSubGrid Display axis sub grid, if true.

visibleSubTicks Display axis sub ticks, if true.

visibleTicks Display axis ticks, if true.

xLabelFormat Label format string (e.g. '{mm}/{yy}') or function.

zrangePref Zero range axis limit preference.

Example

```
def demo(self):
    self.setPosition(20, 50, 150)
    self.configure([(10,20,30,40,50)])

d = Drawing(200, 100)
    d.add(self)
    return d
```

```
abf_ignore_zero = False
avoidBoundFrac = None
avoidBoundSpace = None
bottomAxisLabelSlack = 0.1
dailyFreq = 0
dayOfWeekName = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']
drawGridLast = False
forceDatesEachYear =
forceEndDate = 0
forceFirstDate = 0
forceZero = 0
gridEnd = None
gridStart = None
gridStrokeColor = Color(0,0,0,1)
gridStrokeDashArray = None
gridStrokeLineCap = 0
gridStrokeLineJoin = 0
gridStrokeMiterLimit = 10
gridStrokeWidth = 0.25
hiLLen = 0
joinAxis = None
joinAxisMode = None
joinAxisPos = None
keepTickLabelsInside = 0
labelAxisMode = 'axis'
labelTextFormat = None
labelTextPostFormat = None
labelTextScale = None
labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x048E8A58>
loLLen = 0
maximumTicks = 7
minimumTickSpacing = 10
monthName = ['January'
              'February',
             'March',
             'April',
             'May',
             'June',
              'July'
              'August',
```

```
'September',
              'October',
              'November'
              'December']
niceMonth = 1
origShiftIPC = None
origShiftMin = None
origShiftSpecialValue = None
rangeRound = 'none'
requiredRange = 0
reverseDirection = 0
skipEndL = 'none'
specialTickClear = 0
specifiedTickDates = None
strokeColor = Color(0,0,0,1)
strokeDashArray = None
strokeLineCap = 0
strokeLineJoin = 0
strokeMiterLimit = 10
strokeWidth = 1
style = 'normal'
subGridEnd = None
subGridStart = None
subGridStrokeColor = Color(0,0,0,1)
subGridStrokeDashArray = None
subGridStrokeLineCap = 0
subGridStrokeLineJoin = 0
subGridStrokeMiterLimit = 10
subGridStrokeWidth = 0.25
subTickHi = 0
subTickLo = 0
subTickNum = 0
tickAxisMode = 'axis'
tickDown = 5
tickUp = 0
valueMax = None
valueMin = None
valueStep = None
valueSteps = None
visible = 1
visibleAxis = 1
visibleGrid = 0
visibleLabels = 1
visibleSubGrid = 0
visibleSubTicks = 0
visibleTicks = 1
xLabelFormat = '{mm}/{yy}'
zrangePref = 0
```

ValueAxis(_AxisG)

Abstract value axis, unusable in itself.

Public Attributes

abf_ignore_zero Set to True to make the avoidBoundFrac calculations treat zero as non-special

annotations list of annotations

avoidBoundFrac Fraction of interval to allow above and below.

avoidBoundSpace Space to allow above and below.

drawGridLast if true draw gridlines after everything else.

forceZero Ensure zero in range if true.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

keepTickLabelsInside Ensure tick labels do not project beyond bounds of axis if true

labelAxisMode Like joinAxisMode, but for the axis labels

labelTextFormat Formatting string or function used for axis labels.

labelTextPostFormat Extra Formatting string.

labelTextScale Scaling for label tick values.

labels Handle of the axis labels.

loLLen extra line length before start of the axis

maximumTicks Maximum number of ticks.

minimumTickSpacing Minimum value for distance between ticks.

origShiftIPC Lowest label shift interval ratio.

origShiftMin Minimum amount to shift.

origShiftSpecialValue special value for shift

rangeRound How to round the axis limits

requiredRange Minimum required value range.

reverseDirection If true reverse category direction.

skipEndL Skip high/low tick labels

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How values are plotted!

subGridEnd End of grid lines wrt axis origin

subGridStart Start of grid lines wrt axis origin

subGridStrokeColor Color of grid lines.

subGridStrokeDashArray Dash array used for grid lines.

subGridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

subGridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

subGridStrokeMiterLimit Grid miter limit control miter line joins

subGridStrokeWidth Width of grid lines.

subTickHi sub tick up or right

subTickLo sub tick down or left

subTickNum Number of axis sub ticks, if >0

tickAxisMode Like joinAxisMode, but for the ticks

valueMax Maximum value on axis.

valueMin Minimum value on axis.

valueStep Step size used between ticks.

valueSteps List of step sizes used between ticks.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleSubGrid Display axis sub grid, if true.

visibleSubTicks Display axis sub ticks, if true.

visibleTicks Display axis ticks, if true.

zrangePref Zero range axis limit preference.

XCategoryAxis(_XTicks, CategoryAxis)

X/category axis

Public Attributes

annotations list of annotations

categoryNames List of category names.

drawGridLast if true draw gridlines after everything else.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

hiPad extra inner space after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('bottom', 'top', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

labelAxisMode Like joinAxisMode, but for the axis labels

labels Handle of the axis labels.

IoLLen extra line length before start of the axis

IoPad extra inner space before start of the axis

reverseDirection If true reverse category direction.

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How common category bars are plotted

tickDown Tick length down the axis.

tickShift Tick shift typically

tickUp Tick length up the axis.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleTicks Display axis ticks, if true.

XValueAxis(_XTicks, ValueAxis)

X/value axis

Public Attributes

abf_ignore_zero Set to True to make the avoidBoundFrac calculations treat zero as non-special annotations list of annotations

avoidBoundFrac Fraction of interval to allow above and below.

avoidBoundSpace Space to allow above and below.

drawGridLast if true draw gridlines after everything else.

forceZero Ensure zero in range if true.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('bottom', 'top', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

keepTickLabelsInside Ensure tick labels do not project beyond bounds of axis if true

labelAxisMode Like joinAxisMode, but for the axis labels

labelTextFormat Formatting string or function used for axis labels.

labelTextPostFormat Extra Formatting string.

labelTextScale Scaling for label tick values.

labels Handle of the axis labels.

IoLLen extra line length before start of the axis

maximumTicks Maximum number of ticks.

minimumTickSpacing Minimum value for distance between ticks.

origShiftIPC Lowest label shift interval ratio.

origShiftMin Minimum amount to shift.

origShiftSpecialValue special value for shift

rangeRound How to round the axis limits

requiredRange Minimum required value range.

reverseDirection If true reverse category direction.

skipEndL Skip high/low tick labels

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How values are plotted!

subGridEnd End of grid lines wrt axis origin

subGridStart Start of grid lines wrt axis origin

subGridStrokeColor Color of grid lines.

subGridStrokeDashArray Dash array used for grid lines.

subGridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

subGridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

subGridStrokeMiterLimit Grid miter limit control miter line joins

subGridStrokeWidth Width of grid lines.

subTickHi sub tick up or right

subTickLo sub tick down or left

subTickNum Number of axis sub ticks, if >0

tickAxisMode Like joinAxisMode, but for the ticks

tickDown Tick length down the axis.

tickUp Tick length up the axis.

valueMax Maximum value on axis.

valueMin Minimum value on axis.

valueStep Step size used between ticks.

valueSteps List of step sizes used between ticks.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleSubGrid Display axis sub grid, if true.

visibleSubTicks Display axis sub ticks, if true.

visibleTicks Display axis ticks, if true.

zrangePref Zero range axis limit preference.

Example

```
def demo(self):
    self.setPosition(20, 50, 150)
    self.configure([(10,20,30,40,50)])

d = Drawing(200, 100)
    d.add(self)
    return d
```

```
abf_ignore_zero = False
avoidBoundFrac = None
avoidBoundSpace = None
drawGridLast = False
forceZero = 0
```

```
gridEnd = None
gridStart = None
gridStrokeColor = Color(0,0,0,1)
gridStrokeDashArray = None
gridStrokeLineCap = 0
gridStrokeLineJoin = 0
gridStrokeMiterLimit = 10
gridStrokeWidth = 0.25
hiLLen = 0
joinAxis = None
joinAxisMode = None
joinAxisPos = None
keepTickLabelsInside = 0
labelAxisMode = 'axis'
labelTextFormat = None
labelTextPostFormat = None
labelTextScale = None
labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x049417D8>
loLLen = 0
maximumTicks = 7
minimumTickSpacing = 10
origShiftIPC = None
origShiftMin = None
origShiftSpecialValue = None
rangeRound = 'none'
requiredRange = 0
reverseDirection = 0
skipEndL = 'none'
strokeColor = Color(0,0,0,1)
strokeDashArray = None
strokeLineCap = 0
strokeLineJoin = 0
strokeMiterLimit = 10
strokeWidth = 1
style = 'normal'
subGridEnd = None
subGridStart = None
subGridStrokeColor = Color(0,0,0,1)
subGridStrokeDashArray = None
subGridStrokeLineCap = 0
subGridStrokeLineJoin = 0
subGridStrokeMiterLimit = 10
subGridStrokeWidth = 0.25
subTickHi = 0
subTickLo = 0
subTickNum = 0
tickAxisMode = 'axis'
tickDown = 5
tickUp = 0
valueMax = None
valueMin = None
valueStep = None
visible = 1
visibleAxis = 1
visibleGrid = 0
visibleLabels = 1
visibleSubGrid = 0
visibleSubTicks = 0
visibleTicks = 1
zrangePref = 0
```

YCategoryAxis(_YTicks, CategoryAxis)

Y/category axis

Public Attributes

annotations list of annotations

categoryNames List of category names.

drawGridLast if true draw gridlines after everything else.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

hiPad extra inner space after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('left', 'right', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

labelAxisMode Like joinAxisMode, but for the axis labels

labels Handle of the axis labels.

loLLen extra line length before start of the axis

IoPad extra inner space before start of the axis

reverseDirection If true reverse category direction.

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How common category bars are plotted

tickLeft Tick length left of the axis.

tickRight Tick length right of the axis.

tickShift Tick shift typically

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleTicks Display axis ticks, if true.

YValueAxis(_YTicks, ValueAxis)

Y/value axis

Public Attributes

abf_ignore_zero Set to True to make the avoidBoundFrac calculations treat zero as non-special

annotations list of annotations

avoidBoundFrac Fraction of interval to allow above and below.

avoidBoundSpace Space to allow above and below.

drawGridLast if true draw gridlines after everything else.

forceZero Ensure zero in range if true.

gridEnd End of grid lines wrt axis origin

gridStart Start of grid lines wrt axis origin

gridStrokeColor Color of grid lines.

gridStrokeDashArray Dash array used for grid lines.

gridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

gridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

gridStrokeMiterLimit Grid miter limit control miter line joins

gridStrokeWidth Width of grid lines.

hiLLen extra line length after end of the axis

joinAxis Join both axes if true.

joinAxisMode Mode used for connecting axis ('left', 'right', 'value', 'points', None).

joinAxisPos Position at which to join with other axis.

keepTickLabelsInside Ensure tick labels do not project beyond bounds of axis if true

labelAxisMode Like joinAxisMode, but for the axis labels

labelTextFormat Formatting string or function used for axis labels.

labelTextPostFormat Extra Formatting string.

labelTextScale Scaling for label tick values.

labels Handle of the axis labels.

IoLLen extra line length before start of the axis

maximumTicks Maximum number of ticks.

minimumTickSpacing Minimum value for distance between ticks.

origShiftIPC Lowest label shift interval ratio.

origShiftMin Minimum amount to shift.

origShiftSpecialValue special value for shift

rangeRound How to round the axis limits

requiredRange Minimum required value range.

reverseDirection If true reverse category direction.

skipEndL Skip high/low tick labels

skipGrid grid lines to skip top bottom both none

strokeColor Color of axis line and ticks.

strokeDashArray Dash array used for axis line.

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeWidth Width of axis line and ticks.

style How values are plotted!

subGridEnd End of grid lines wrt axis origin

subGridStart Start of grid lines wrt axis origin

subGridStrokeColor Color of grid lines.

subGridStrokeDashArray Dash array used for grid lines.

subGridStrokeLineCap Grid Line cap 0=butt, 1=round 2=square

subGridStrokeLineJoin Grid Line join 0=miter, 1=round 2=bevel

subGridStrokeMiterLimit Grid miter limit control miter line joins

subGridStrokeWidth Width of grid lines.

subTickHi sub tick up or right

subTickLo sub tick down or left

subTickNum Number of axis sub ticks, if >0

tickAxisMode Like joinAxisMode, but for the ticks

tickLeft Tick length left of the axis.

tickRight Tick length right of the axis.

valueMax Maximum value on axis.

valueMin Minimum value on axis.

valueStep Step size used between ticks.

valueSteps List of step sizes used between ticks.

visible Display entire object, if true.

visibleAxis Display axis line, if true.

visibleGrid Display axis grid, if true.

visibleLabels Display axis labels, if true.

visibleSubGrid Display axis sub grid, if true.

visibleSubTicks Display axis sub ticks, if true.

visibleTicks Display axis ticks, if true.

zrangePref Zero range axis limit preference.

Example

```
def demo(self):
   data = [(10, 20, 30, 42)]
   self.setPosition(100, 10, 80)
   self.configure(data)

   drawing = Drawing(200, 100)
   drawing.add(self)
   return drawing
```

Properties of Example Widget

```
abf_ignore_zero = False
avoidBoundFrac = None
avoidBoundSpace = None
drawGridLast = False
forceZero = 0
gridEnd = None
gridStart = None
gridStrokeColor = Color(0,0,0,1)
gridStrokeDashArray = None
gridStrokeLineCap = 0
gridStrokeLineJoin = 0
gridStrokeMiterLimit = 10
gridStrokeWidth = 0.25
hiLLen = 0
joinAxis = None
joinAxisMode = None
joinAxisPos = None
keepTickLabelsInside = 0
labelAxisMode = 'axis'
labelTextFormat = None
labelTextPostFormat = None
labelTextScale = None
labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x049581E8>
loLLen = 0
maximumTicks = 7
minimumTickSpacing = 10
origShiftIPC = None
origShiftMin = None
origShiftSpecialValue = None
rangeRound = 'none'
requiredRange = 0
reverseDirection = 0
skipEndL = 'none'
strokeColor = Color(0,0,0,1)
strokeDashArray = None
strokeLineCap = 0
strokeLineJoin = 0
strokeMiterLimit = 10
strokeWidth = 1
style = 'normal'
subGridEnd = None
subGridStart = None
subGridStrokeColor = Color(0,0,0,1)
subGridStrokeDashArray = None
subGridStrokeLineCap = 0
subGridStrokeLineJoin = 0
subGridStrokeMiterLimit = 10
subGridStrokeWidth = 0.25
subTickHi = 0
subTickLo = 0
subTickNum = 0
tickAxisMode = 'axis'
tickLeft = 5
tickRight = 0
valueMax = None
valueMin = None
valueStep = None
visible = 1
visibleAxis = 1
visibleGrid = 0
visibleLabels = 1
```

visibleSubGrid = 0
visibleSubTicks = 0
visibleTicks = 1
zrangePref = 0

_AxisG(Widget)

Public Attributes

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

Properties of Example Widget

Functions

```
sample0a( ... )
```

Sample drawing with one xcat axis and two buckets.

```
def sampleOa():
    "Sample drawing with one xcat axis and two buckets."

drawing = Drawing(400, 200)

data = [(10, 20)]

xAxis = XCategoryAxis()
    xAxis.setPosition(75, 75, 300)
    xAxis.configure(data)
    xAxis.categoryNames = ['Ying', 'Yang']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    return drawing
```



```
sample0b( ... )
```

Sample drawing with one xcat axis and one bucket only.

Example

```
def sampleOb():
    "Sample drawing with one xcat axis and one bucket only."
    drawing = Drawing(400, 200)

    data = [(10,)]

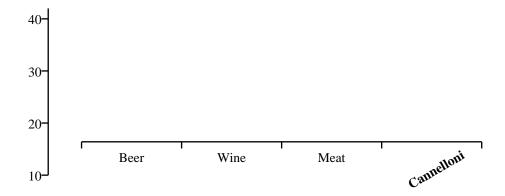
    xAxis = XCategoryAxis()
    xAxis.setPosition(75, 75, 300)
    xAxis.configure(data)
    xAxis.categoryNames = ['Ying']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    return drawing
```

Ying

sample1(...)

Sample drawing containing two unconnected axes.

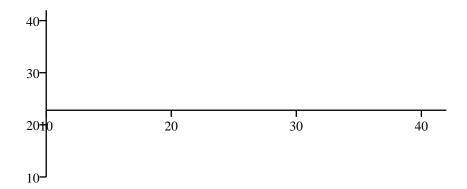
```
def sample1():
     "Sample drawing containing two unconnected axes."
    from reportlab.graphics.shapes import _baseGFontNameB
    drawing = Drawing(400, 200)
data = [(10, 20, 30, 42)]
    xAxis = XCategoryAxis()
    xAxis.setPosition(75, 75, 300)
    xAxis.configure(data)
    xAxis.categoryNames = ['Beer','Wine','Meat','Cannelloni']
    xAxis.labels.boxAnchor = 'n'
    xAxis.labels[3].dy = -15
xAxis.labels[3].angle = 30
    xAxis.labels[3].fontName = _baseGFontNameB
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
return drawing
```



sample4a(...)

Sample drawing, xvalue/yvalue axes, y connected at 100 pts to x.

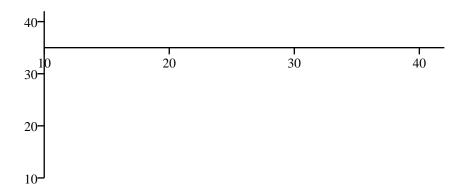
```
def sample4a():
    "Sample drawing, xvalue/yvalue axes, y connected at 100 pts to x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'points'
    xAxis.joinAxisPos = 100
    xAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample4b(...)

Sample drawing, xvalue/yvalue axes, y connected at value 35 of x.

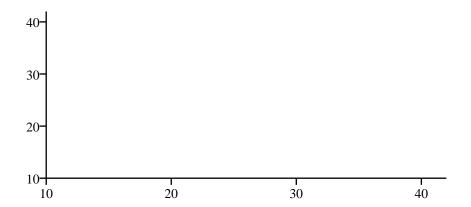
```
def sample4b():
    "Sample drawing, xvalue/yvalue axes, y connected at value 35 of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'value'
    xAxis.joinAxisPos = 35
    xAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample4c(...)

Sample drawing, xvalue/yvalue axes, y connected to bottom of x.

```
def sample4c():
    "Sample drawing, xvalue/yvalue axes, y connected to bottom of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'bottom'
    xAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



```
sample4c1( ... )
```

xvalue/yvalue axes, without drawing axis lines/ticks.

Example

```
def sample4cl():
    "xvalue/yvalue axes, without drawing axis lines/ticks."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    yAxis.visibleAxis = 0
    yAxis.visibleTicks = 0
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis._joinAxis = yAxis
    xAxis.joinAxisMode = 'bottom'
    xAxis.configure(data)
    xAxis.visibleAxis = 0
    xAxis.visibleTicks = 0
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```

40

30

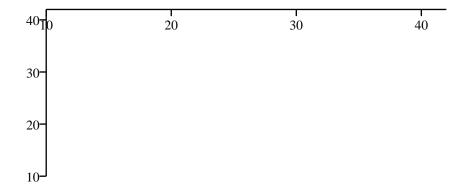
20

10 10 20 30 40

sample4d(...)

Sample drawing, xvalue/yvalue axes, y connected to top of x.

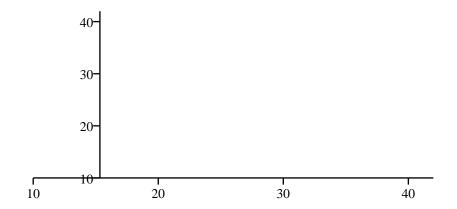
```
def sample4d():
    "Sample drawing, xvalue/yvalue axes, y connected to top of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'top'
    xAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample5a(...)

Sample drawing, xvalue/yvalue axes, y connected at 100 pts to x.

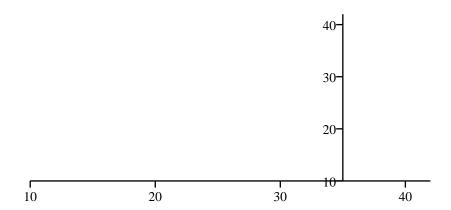
```
def sample5a():
    "Sample drawing, xvalue/yvalue axes, y connected at 100 pts to x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis.setPosition(50, 50, 300)
    xAxis.configure(data)
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'points'
    yAxis.joinAxisPos = 100
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample5b(...)

Sample drawing, xvalue/yvalue axes, y connected at value 35 of x.

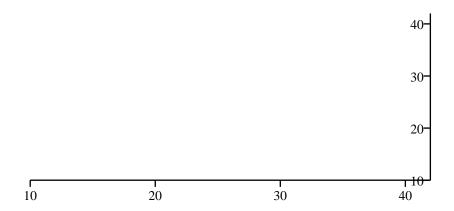
```
def sample5b():
    "Sample drawing, xvalue/yvalue axes, y connected at value 35 of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis.setPosition(50, 50, 300)
    xAxis.configure(data)
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'value'
    yAxis.joinAxisPos = 35
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample5c(...)

Sample drawing, xvalue/yvalue axes, y connected at right of x.

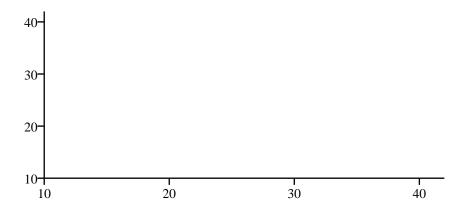
```
def sample5c():
    "Sample drawing, xvalue/yvalue axes, y connected at right of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis.setPosition(50, 50, 300)
    xAxis.configure(data)
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'right'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample5d(...)

Sample drawing, xvalue/yvalue axes, y connected at left of x.

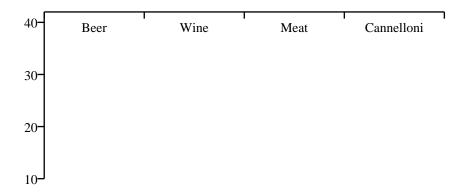
```
def sample5d():
    "Sample drawing, xvalue/yvalue axes, y connected at left of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis.setPosition(50, 50, 300)
    xAxis.configure(data)
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'left'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample6a(...)

Sample drawing, xcat/yvalue axes, x connected at top of y.

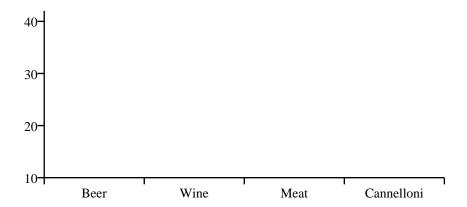
```
def sample6a():
    "Sample drawing, xcat/yvalue axes, x connected at top of y."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XCategoryAxis()
    xAxis._length = 300
    xAxis.configure(data)
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'top'
    xAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample6b(...)

Sample drawing, xcat/yvalue axes, x connected at bottom of y.

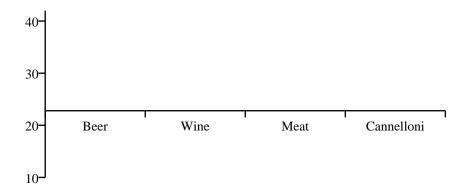
```
def sample6b():
    "Sample drawing, xcat/yvalue axes, x connected at bottom of y."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XCategoryAxis()
    xAxis._length = 300
    xAxis._length = 300
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'bottom'
    xAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample6c(...)

Sample drawing, xcat/yvalue axes, x connected at 100 pts to y.

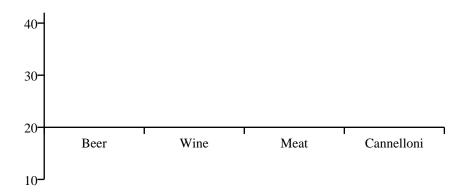
```
def sample6c():
     "Sample drawing, xcat/yvalue axes, x connected at 100 pts to y."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XCategoryAxis()
    xAxis._length = 300
    xAxis.configure(data)
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'points'
xAxis.joinAxisPos = 100
    xAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample6d(...)

Sample drawing, xcat/yvalue axes, x connected at value 20 of y.

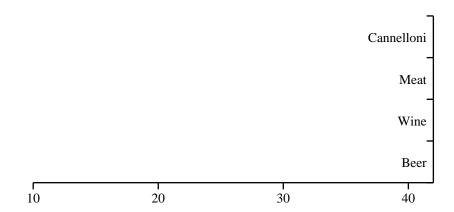
```
def sample6d():
    "Sample drawing, xcat/yvalue axes, x connected at value 20 of y."
    drawing = Drawing(400, 200)
   data = [(10, 20, 30, 42)]
yAxis = YValueAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.configure(data)
    xAxis = XCategoryAxis()
    xAxis._length = 300
    xAxis.configure(data)
    xAxis.joinAxis = yAxis
    xAxis.joinAxisMode = 'value'
    xAxis.joinAxisPos = 20
    xAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    xAxis.labels.boxAnchor = 'n'
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample7a(...)

Sample drawing, xvalue/ycat axes, y connected at right of x.

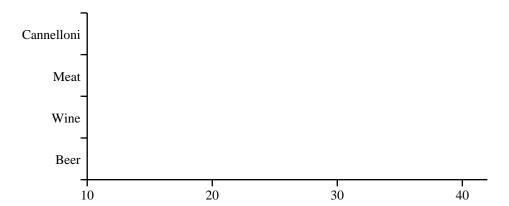
```
def sample7a():
    "Sample drawing, xvalue/ycat axes, y connected at right of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.configure(data)
    yAxis = YCategoryAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'right'
    yAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    yAxis.labels.boxAnchor = 'e'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample7b(...)

Sample drawing, xvalue/ycat axes, y connected at left of x.

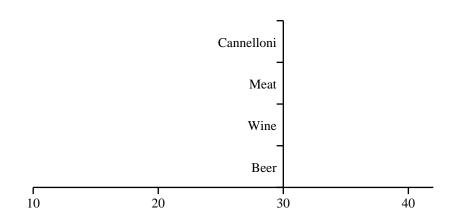
```
def sample7b():
    "Sample drawing, xvalue/ycat axes, y connected at left of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.configure(data)
    yAxis = YCategoryAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'left'
    yAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    yAxis.labels.boxAnchor = 'e'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample7c(...)

Sample drawing, xvalue/ycat axes, y connected at value 30 of x.

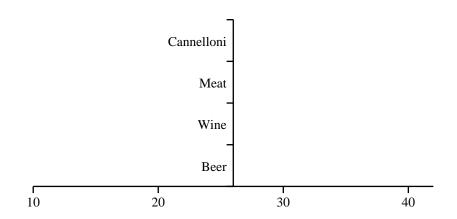
```
def sample7c():
    "Sample drawing, xvalue/ycat axes, y connected at value 30 of x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.configure(data)
    yAxis = YCategoryAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'value'
    yAxis.joinAxisPos = 30
    yAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    yAxis.labels.boxAnchor = 'e'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



sample7d(...)

Sample drawing, xvalue/ycat axes, y connected at 200 pts to x.

```
def sample7d():
    "Sample drawing, xvalue/ycat axes, y connected at 200 pts to x."
    drawing = Drawing(400, 200)
    data = [(10, 20, 30, 42)]
    xAxis = XValueAxis()
    xAxis._length = 300
    xAxis.configure(data)
    yAxis = YCategoryAxis()
    yAxis.setPosition(50, 50, 125)
    yAxis.joinAxis = xAxis
    yAxis.joinAxisMode = 'points'
    yAxis.joinAxisPos = 200
    yAxis.categoryNames = ['Beer', 'Wine', 'Meat', 'Cannelloni']
    yAxis.labels.boxAnchor = 'e'
    yAxis.configure(data)
    drawing.add(xAxis)
    drawing.add(yAxis)
    return drawing
```



barcharts

This module defines a variety of Bar Chart components.

The basic flavors are stacked and side-by-side, available in horizontal and vertical versions.

Classes

BarChart(PlotArea)

Abstract base class, unusable by itself.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6, annotations=7

BarChart3D(BarChart)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

theta_x dx/dz

theta_y dy/dz

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zDepth depth of an individual series

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6, annotations=7

zSpace z gap around series

HorizontalBarChart(BarChart)

Horizontal bar chart with multiple side-by-side bars.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6, annotations=7

Example

```
def demo(self):
    """Shows basic use of a bar chart"""
    if self.__class__.__name__=='BarChart':
        raise NotImplementedError, 'Abstract Class BarChart has no demo'
    drawing = Drawing(200, 100)
    bc = self.__class__()
    drawing.add(bc)
    return drawing
```

Properties of Example Widget

```
background = None
barLabelArray = None
barLabelFormat = None
barLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04872AA8>
barSpacing = 0
barWidth = 10
bars = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04872AF8>
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
\verb|categoryAxis.labels| = \verb|categoryAxis.labe
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickLeft = 5
categoryAxis.tickRight = 0
categoryAxis.tickShift =
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNALabel = None
data = [(100, 110, 120, 130), (70, 80, 85, 90)]
debug = 0
fillColor = None
groupSpacing = 5
height = 85
naLabel = None
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
```

```
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04872508>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal'
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickDown = 5
valueAxis.tickUp = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
y = 10
zIndexOverrides = None
```

HorizontalBarChart3D(BarChart3D, HorizontalBarChart)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

theta x dx/dz

theta_y dy/dz

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zDepth depth of an individual series

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6,

annotations=7

zSpace z gap around series

Example

```
def demo(self):
    """Shows basic use of a bar chart"""
    if self.__class__.__name__ == 'BarChart':
        raise NotImplementedError, 'Abstract Class BarChart has no demo'
    drawing = Drawing(200, 100)
    bc = self.__class__()
    drawing.add(bc)
    return drawing
```

Properties of Example Widget

```
background = None
barLabelArray = None
barLabelFormat = None
barLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ABB828>
barSpacing = 0
bars = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ABB878>
categoryAxis.categoryNames = None
\verb|categoryAxis.drawGridLast| = \verb|False||
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ABB710>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit =
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickLeft = 5
categoryAxis.tickRight = 0
categoryAxis.tickShift = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNALabel = None
data = [(100, 110, 120, 130), (70, 80, 85, 90)]
debug = 0
fillColor = None
groupSpacing = 5
height = 85
naLabel = None
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
```

valueAxis.drawGridLast = False

```
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ABB788>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal'
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickDown = 5
valueAxis.tickUp = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
```

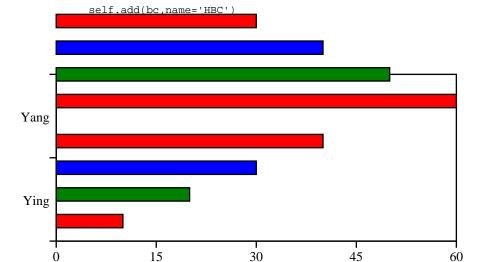
zIndexOverrides = None

SampleH5c4(Drawing)

Simple bar chart with absolute spacing.

Example

```
__init__(self,width=400,height=200,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
bc = HorizontalBarChart()
bc.x = 50
bc.y = 50
bc.height = 125
bc.width = 300
bc.data = dataSample5
bc.strokeColor = colors.black
bc.useAbsolute = 1
bc.barWidth = 10
bc.groupSpacing = 20
bc.barSpacing = 10
bc.valueAxis.valueMin = 0
bc.valueAxis.valueMax = 60
bc.valueAxis.valueStep = 15
bc.categoryAxis.labels.boxAnchor = 'e'
bc.categoryAxis.categoryNames = ['Ying', 'Yang']
```



VerticalBarChart(BarChart)

Vertical bar chart with multiple side-by-side bars.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6, annotations=7

Example

```
def demo(self):
    """Shows basic use of a bar chart"""
    if self.__class__.__name__ == 'BarChart':
        raise NotImplementedError, 'Abstract Class BarChart has no demo'
    drawing = Drawing(200, 100)
    bc = self.__class__()
    drawing.add(bc)
    return drawing
```

Properties of Example Widget

```
background = None
barLabelArray = None
barLabelFormat = None
barLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04AC4C60>
```

```
barSpacing = 0
barWidth = 10
bars = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04AC4CB0>
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04AC4B48>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickDown = 5
categoryAxis.tickShift = 0
categoryAxis.tickUp = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNALabel = None
data = [(100, 110, 120, 130), (70, 80, 85, 90)]
debug = 0
fillColor = None
groupSpacing = 5
height = 85
naLabel = None
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04AC4BC0>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
```

```
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal'
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickLeft = 5
valueAxis.tickRight = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
y = 10
zIndexOverrides = None
```

VerticalBarChart3D(BarChart3D, VerticalBarChart)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

barLabelArray explicit array of bar label values, must match size of data if present.

barLabelCallOut Callout function(label) label._callOutInfo = (self,g,rowNo,colNo,x,y,width,height,x00,y00,x0,y0)

barLabelFormat Formatting string or function used for bar labels.

barLabels Handle to the list of bar labels.

barRecord callable(bar,label=labelText,value=value,**kwds) to record bar information

barSpacing Width between individual bars.

barWidth The width of an individual bar.

bars Handle of the individual bars.

categoryAxis Handle of the category axis.

categoryLabelBarOrder where any label bar should appear first/last

categoryLabelBarSize width to leave for a category label to go between categories.

categoryNALabel Label to use for a group of N/A values.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing Width between groups of bars.

height Height of the chart.

naLabel Label to use for N/A values.

reversePlotOrder If true, reverse common category plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

theta_x dx/dz

theta_y dy/dz

useAbsolute Flag to use absolute spacing values; use string of gsb for finer control (g=groupSpacing,s=barSpacing,b=barWidth).

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zDepth depth of an individual series

zIndexOverrides None (the default ie use old z ordering scheme) or a ',' separated list of key=value (int/float) for new zIndex ordering. If used defaults are background=0, categoryAxis=1, valueAxis=2, bars=3, barLabels=4, categoryAxisGrid=5, valueAxisGrid=6, annotations=7

zSpace z gap around series

Example

```
def demo(self):
    """Shows basic use of a bar chart"""
    if self.__class__.__name__ == 'BarChart':
        raise NotImplementedError, 'Abstract Class BarChart has no demo'
    drawing = Drawing(200, 100)
    bc = self.__class__()
    drawing.add(bc)
    return drawing
```

Properties of Example Widget

```
background = None
barLabelArray = None
barLabelFormat = None
barLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ACB800>
barSpacing = 0
barWidth = 10
bars = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ACB850>
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ACB738>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickDown = 5
categoryAxis.tickShift = 0
categoryAxis.tickUp = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNALabel = None
data = [(100, 110, 120, 130), (70, 80, 85, 90)]
debug = 0
fillColor = None
groupSpacing =
height = 85
naLabel = None
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
```

valueAxis.gridEnd = None

```
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04ACB7B0>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.oriqShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal'
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickLeft = 5
valueAxis.tickRight = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
y = 10
```

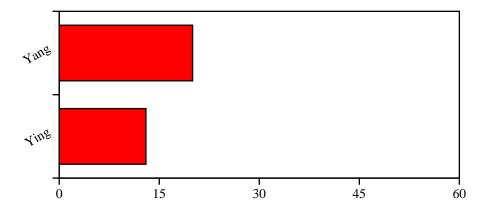
zIndexOverrides = None

Functions

```
sampleH0a( ... )
```

Make a slightly pathologic bar chart with only TWO data items.

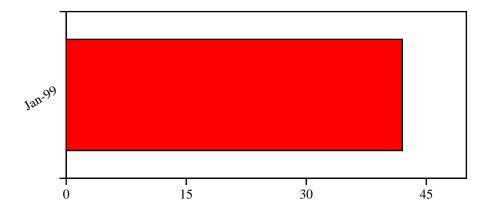
```
def sampleH0a():
    "Make a slightly pathologic bar chart with only TWO data items."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = HorizontalBarChart()
   bc.x = 50
bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'se'
    bc.categoryAxis.labels.angle = 30
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH0b(...)

Make a pathologic bar chart with only ONE data item.

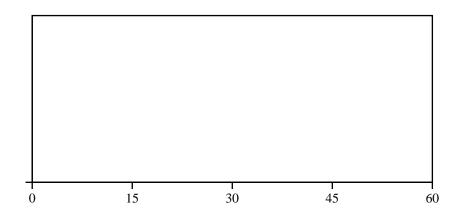
```
def sampleH0b():
    "Make a pathologic bar chart with only ONE data item."
    drawing = Drawing(400, 200)
    data = [(42,)]
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.y = 30
bc.height = 125
bc.width = 300
bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 50
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'se'
    bc.categoryAxis.labels.angle = 30
    bc.categoryAxis.categoryNames = ['Jan-99']
    drawing.add(bc)
    return drawing
```



sampleH0c(...)

Make a really pathologic bar chart with NO data items at all!

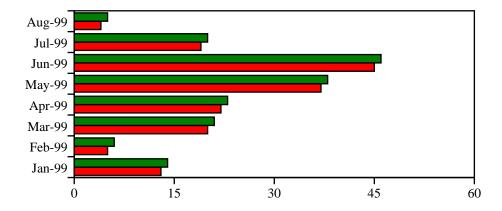
```
def sampleH0c():
    "Make a really pathologic bar chart with NO data items at all!"
    drawing = Drawing(400, 200)
    data = [()]
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.y = 30
bc.height = 125
bc.width = 300
bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'se'
    bc.categoryAxis.labels.angle = 30
    bc.categoryAxis.categoryNames = []
    drawing.add(bc)
    return drawing
```



sampleH1(...)

Sample of multi-series bar chart.

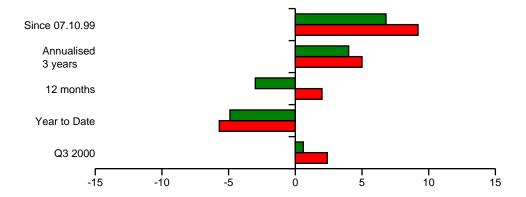
```
def sampleH1():
     "Sample of multi-series bar chart."
     drawing = Drawing(400, 200)
     data = [
               (13, 5, 20, 22, 37, 45, 19, 4),
(14, 6, 21, 23, 38, 46, 20, 5)
    bc = HorizontalBarChart()
    bc.x = 50
bc.y = 50
     bc.height = 125
    bc.width = 300
     bc.data = data
     bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
     bc.categoryAxis.labels.boxAnchor = 'e'
    catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
catNames = map(lambda n:n+'-99', catNames)
    bc.categoryAxis.categoryNames = catNames
drawing.add(bc, 'barchart')
     return drawing
```



sampleH2a(...)

Sample of multi-series bar chart.

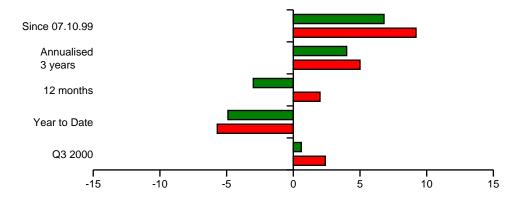
```
def sampleH2a():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.2), (0.6, -4.9, -3, 4, 6.8)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = HorizontalBarChart()
    bc.x = 80
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 0
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
                                           # irrelevant (becomes 'c')
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.valueAxis.configure(bc.data)
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.categoryAxis.labels.dx = -150
    drawing.add(bc)
    return drawing
```



sampleH2b(...)

Sample of multi-series bar chart.

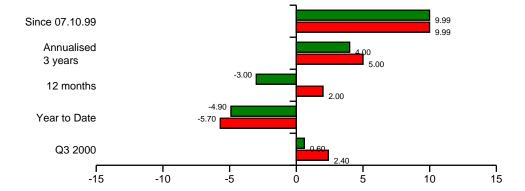
```
def sampleH2b():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.2), (0.6, -4.9, -3, 4, 6.8)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = HorizontalBarChart()
    bc.x = 80
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 5
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
                                           # irrelevant (becomes 'c')
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.categoryAxis.labels.dx = -150
    drawing.add(bc)
    return drawing
```



sampleH2c(...)

Sample of multi-series bar chart.

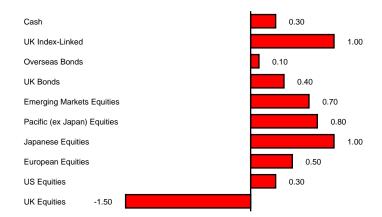
```
def sampleH2c():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.99), (0.6, -4.9, -3, 4, 9.99)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = HorizontalBarChart()
    bc.x = 80
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 2
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.categoryAxis.labels.dx = -150
    bc.barLabels.nudge = 10
    bc.barLabelFormat = '%0.2f'
    bc.barLabels.dx = 0
    bc.barLabels.dy = 0
    bc.barLabels.boxAnchor = 'n' # irrelevant (becomes 'c')
bc.barLabels.fontName = 'Helvetica'
    bc.barLabels.fontSize = 6
    drawing.add(bc)
    return drawing
```



sampleH3(...)

A really horizontal bar chart (compared to the equivalent faked one).

```
def sampleH3():
    "A really horizontal bar chart (compared to the equivalent faked one)."
   series1 = (-1.5, 0.3, 0.5, 1.0, 0.8, 0.7, 0.4, 0.1, 1.0, 0.3)
    series2 = (0.0, 0.33, 0.55, 1.1, 0.88, 0.77, 0.44, 0.11, 1.10, 0.33)
   assert len(names) == len(series1), "bad data"
assert len(names) == len(series2), "bad data"
    drawing = Drawing(400, 200)
    bc = HorizontalBarChart()
    bc.x = 100
    bc.y = 20
    bc.height = 150
    bc.width = 250
    bc.data = (series1,)
    bc.bars.fillColor = colors.green
   bc.barLabelFormat = '%0.2f'
    bc.barLabels.dx = 0
   bc.barLabels.dy = 0
   bc.barLabels.boxAnchor = 'w' # irrelevant (becomes 'c')
bc.barLabels.fontName = 'Helvetica'
   bc.barLabels.fontSize = 6
    bc.barLabels.nudge = 10
    bc.valueAxis.visible = 0
    bc.valueAxis.valueMin = -2
    bc.valueAxis.valueMax = +2
    bc.valueAxis.valueStep = 1
    bc.categoryAxis.tickLeft = 0
    bc.categoryAxis.tickRight = 0
    bc.categoryAxis.categoryNames = names
   bc.categoryAxis.labels.boxAnchor = 'w'
    bc.categoryAxis.labels.dx = -170
   bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 6
    g = Group(bc)
    drawing.add(g)
    return drawing
```



sampleH4a(...)

A bar chart showing value axis region starting at *exactly* zero.

```
def sampleH4a():
    "A bar chart showing value axis region starting at *exactly* zero."
    drawing = Drawing(400, 200)

    data = [(13, 20)]

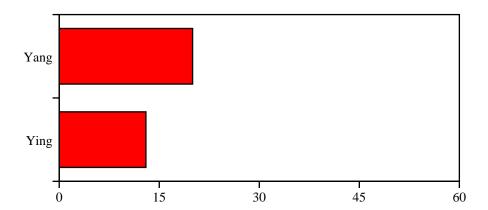
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data

    bc.strokeColor = colors.black

    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueStep = 15

    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']

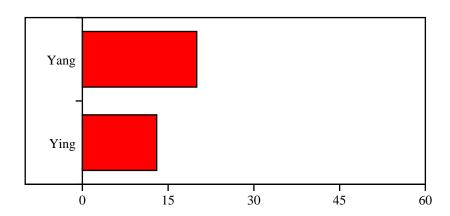
    drawing.add(bc)
    return drawing
```



sampleH4b(...)

A bar chart showing value axis region starting *below* zero.

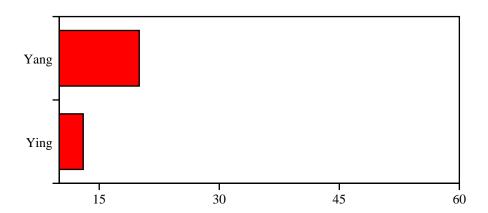
```
def sampleH4b():
    "A bar chart showing value axis region starting *below* zero."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = -10
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH4c(...)

A bar chart showing value axis region starting *above* zero.

```
def sampleH4c():
    "A bar chart showing value axis region starting *above* zero."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 10
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH4d(...)

A bar chart showing value axis region entirely *below* zero.

```
def sampleH4d():
    "A bar chart showing value axis region entirely *below* zero."
    drawing = Drawing(400, 200)

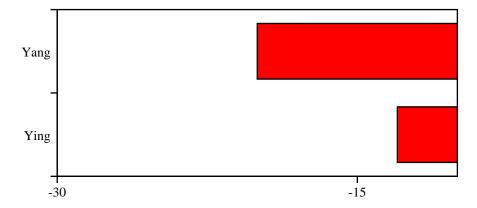
    data = [(-13, -20)]

    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data

    bc.strokeColor = colors.black

    bc.valueAxis.valueMin = -30
    bc.valueAxis.valueMax = -10
    bc.valueAxis.valueStep = 15

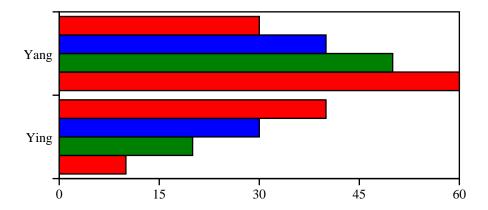
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5a(...)

A simple bar chart with no expressed spacing attributes.

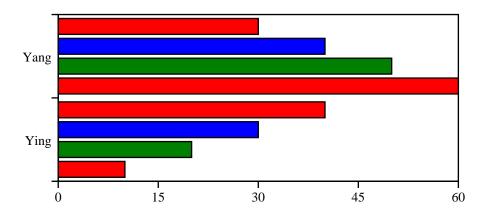
```
def sampleH5a():
     "A simple bar chart with no expressed spacing attributes."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5b(...)

A simple bar chart with proportional spacing.

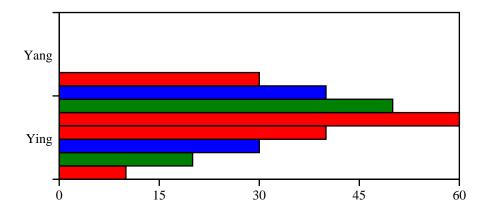
```
def sampleH5b():
    "A simple bar chart with proportional spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 0
    bc.barWidth = 40
    bc.groupSpacing = 20
bc.barSpacing = 10
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5c1(...)

A simple bar chart with absolute spacing.

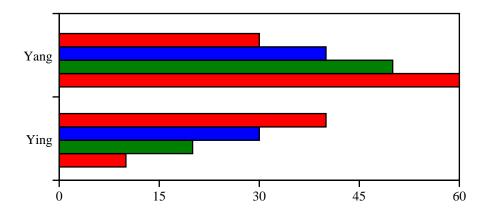
```
def sampleH5c1():
    "A simple bar chart with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 10
    bc.groupSpacing = 0
bc.barSpacing = 0
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5c2(...)

Simple bar chart with absolute spacing.

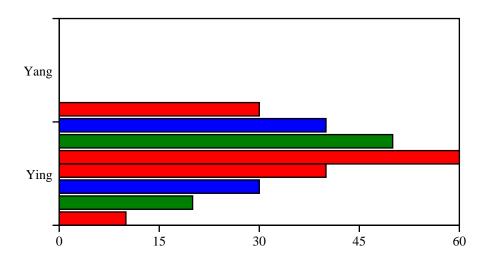
```
def sampleH5c2():
    "Simple bar chart with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 10
    bc.groupSpacing = 20
bc.barSpacing = 0
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5c3(...)

Simple bar chart with absolute spacing.

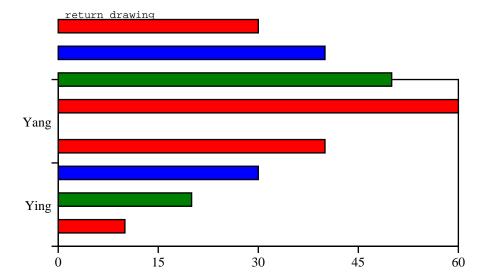
```
def sampleH5c3():
    "Simple bar chart with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 20
   bc.height = 155
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 10
    bc.groupSpacing = 0
    bc.barSpacing = 2
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleH5c4(...)

Simple bar chart with absolute spacing.

```
def sampleH5c4():
    "Simple bar chart with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = HorizontalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 10
    bc.groupSpacing = 20
bc.barSpacing = 10
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
```



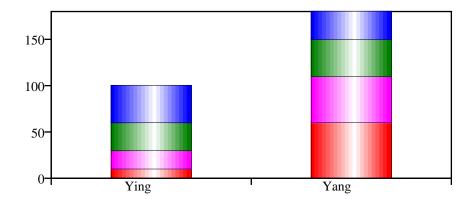
sampleStacked1(...)

Simple bar chart using symbol attribute.

Example

```
def sampleStacked1():
    "Simple bar chart using symbol attribute."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.categoryAxis.style = 'stacked'
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.barWidth = 10
    bc.groupSpacing = 15
    bc.valueAxis.valueMin = 0
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    from reportlab.graphics.widgets.grids import ShadedRect
    bc.bars.symbol = ShadedRect()
bc.bars.symbol.fillColorStart = colors.red
    bc.bars.symbol.fillColorEnd = colors.white
bc.bars.symbol.orientation = 'vertical'
    bc.bars.symbol.cylinderMode = 1
    bc.bars.symbol.strokeWidth = 0
    bc.bars[1].symbol = ShadedRect()
    bc.bars[1].symbol.fillColorStart = colors.magenta
    bc.bars[1].symbol.fillColorEnd = colors.white
    bc.bars[1].symbol.orientation = 'vertical'
    bc.bars[1].symbol.cylinderMode = 1
    bc.bars[1].symbol.strokeWidth = 0
    bc.bars[2].symbol = ShadedRect()
    bc.bars[2].symbol.fillColorStart = colors.green
    bc.bars[2].symbol.fillColorEnd = colors.white
    bc.bars[2].symbol.orientation = 'vertical'
    bc.bars[2].symbol.cylinderMode = 1
    bc.bars[2].symbol.strokeWidth = 0
    bc.bars[3].symbol = ShadedRect()
    bc.bars[3].symbol.fillColorStart = colors.blue
    bc.bars[3].symbol.fillColorEnd = colors.white
    bc.bars[3].symbol.orientation = 'vertical'
    bc.bars[3].symbol.cylinderMode = 1
    bc.bars[3].symbol.strokeWidth = 0
    drawing.add(bc)
```

return drawing



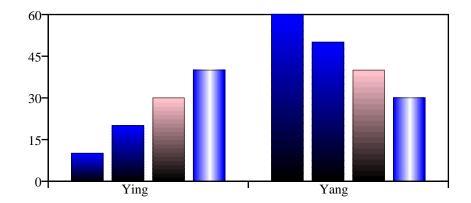
sampleSymbol1(...)

Simple bar chart using symbol attribute.

Example

```
def sampleSymbol1():
    "Simple bar chart using symbol attribute."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.barWidth = 10
    bc.groupSpacing = 15
    bc.barSpacing = 3
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'e'
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    from reportlab.graphics.widgets.grids import ShadedRect
    sym1 = ShadedRect()
    sym1.fillColorStart = colors.black
    sym1.fillColorEnd = colors.blue
    sym1.orientation = 'horizontal'
    sym1.strokeWidth = 0
    sym2 = ShadedRect()
    sym2.fillColorStart = colors.black
    sym2.fillColorEnd = colors.pink
sym2.orientation = 'horizontal'
    sym2.strokeWidth = 0
    sym3 = ShadedRect()
    sym3.fillColorStart = colors.blue
    sym3.fillColorEnd = colors.white
sym3.orientation = 'vertical'
    sym3.cylinderMode = 1
    sym3.strokeWidth = 0
    bc.bars.symbol = sym1
    bc.bars[2].symbol = sym2
bc.bars[3].symbol = sym3
    drawing.add(bc)
```

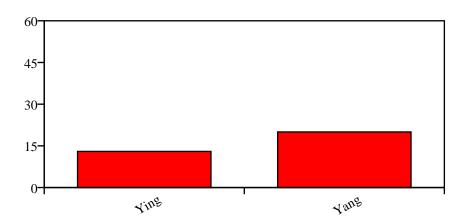
return drawing



sampleV0a(...)

A slightly pathologic bar chart with only TWO data items.

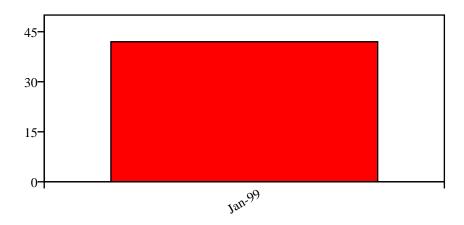
```
def sampleV0a():
    "A slightly pathologic bar chart with only TWO data items."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'ne'
    bc.categoryAxis.labels.dx = 8
    bc.categoryAxis.labels.dy = -2
    bc.categoryAxis.labels.angle = 30
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV0b(...)

A pathologic bar chart with only ONE data item.

```
def sampleV0b():
    "A pathologic bar chart with only ONE data item."
    drawing = Drawing(400, 200)
    data = [(42,)]
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
   bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 50
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'ne'
    bc.categoryAxis.labels.dx = 8
    bc.categoryAxis.labels.dy = -2
    bc.categoryAxis.labels.angle = 30
    bc.categoryAxis.categoryNames = ['Jan-99']
    drawing.add(bc)
    return drawing
```



```
sampleV0c( ... )
```

A really pathologic bar chart with NO data items at all!

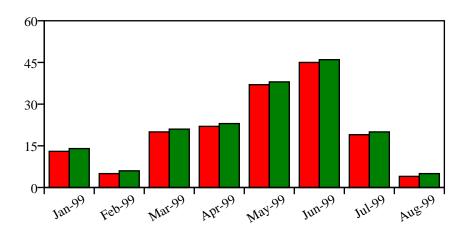
```
def sampleV0c():
    "A really pathologic bar chart with NO data items at all!"
    drawing = Drawing(400, 200)
    data = [()]
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.y = 30
bc.height = 125
bc.width = 300
bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'ne'
    bc.categoryAxis.labels.dx = 8
    bc.categoryAxis.labels.dy = -2
    bc.categoryAxis.categoryNames = []
    drawing.add(bc)
    return drawing
```



sampleV1(...)

Sample of multi-series bar chart.

```
def sampleV1():
    "Sample of multi-series bar chart."
    drawing = Drawing(400, 200)
    data = [
            (13, 5, 20, 22, 37, 45, 19, 4),
            (14, 6, 21, 23, 38, 46, 20, 5)
    bc = VerticalBarChart()
   bc.x = 50
bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'ne'
    bc.categoryAxis.labels.dx = 8
    bc.categoryAxis.labels.dy = -2
    bc.categoryAxis.labels.angle = 30
    catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
    catNames = map(lambda n:n+'-99', catNames)
    bc.categoryAxis.categoryNames = catNames
    drawing.add(bc)
    return drawing
```



sampleV2a(...)

Sample of multi-series bar chart.

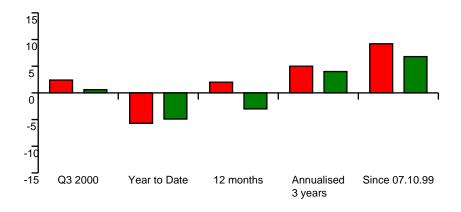
```
def sampleV2a():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.2), (0.6, -4.9, -3, 4, 6.8)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 0
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
                                           # irrelevant (becomes 'c')
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.categoryAxis.labels.dy = -60
    drawing.add(bc)
    return drawing
```



sampleV2b(...)

Sample of multi-series bar chart.

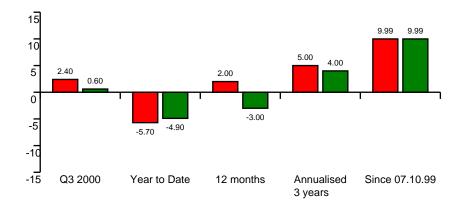
```
def sampleV2b():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.2), (0.6, -4.9, -3, 4, 6.8)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 5
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
                                           # irrelevant (becomes 'c')
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.categoryAxis.labels.dy = -60
    drawing.add(bc)
    return drawing
```



sampleV2c(...)

Sample of multi-series bar chart.

```
def sampleV2c():
    "Sample of multi-series bar chart."
    data = [(2.4, -5.7, 2, 5, 9.99), (0.6, -4.9, -3, 4, 9.99)]
    labels = ("Q3 2000", "Year to Date", "12 months",
               "Annualised\n3 years", "Since 07.10.99")
    drawing = Drawing(400, 200)
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 120
    bc.width = 300
    bc.data = data
    bc.barSpacing = 2
    bc.groupSpacing = 10
    bc.barWidth = 10
    bc.valueAxis.valueMin = -15
    bc.valueAxis.valueMax = +15
    bc.valueAxis.valueStep = 5
    bc.valueAxis.labels.fontName = 'Helvetica'
    bc.valueAxis.labels.fontSize = 8
    bc.categoryAxis.categoryNames = labels
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 8
    bc.valueAxis.labels.boxAnchor = 'n'
    bc.valueAxis.labels.textAnchor = 'middle'
    bc.categoryAxis.labels.dy = -60
    bc.barLabels.nudge = 10
    bc.barLabelFormat = '%0.2f'
    bc.barLabels.dx = 0
    bc.barLabels.dy = 0
    bc.barLabels.boxAnchor = 'n' # irrelevant (becomes 'c')
bc.barLabels.fontName = 'Helvetica'
    bc.barLabels.fontSize = 6
    drawing.add(bc)
    return drawing
```



```
sampleV3( ... )
```

Faked horizontal bar chart using a vertical real one (deprecated).

Example

```
def sampleV3():
    "Faked horizontal bar chart using a vertical real one (deprecated)."
   series1 = (-1.5, 0.3, 0.5, 1.0, 0.8, 0.7, 0.4, 0.1, 1.0, 0.3)
    series2 = (0.0, 0.33, 0.55, 1.1, 0.88, 0.77, 0.44, 0.11, 1.10, 0.33)
   assert len(names) == len(series1), "bad data"
assert len(names) == len(series2), "bad data"
    drawing = Drawing(400, 200)
    bc = VerticalBarChart()
    bc.x = 0
    bc.y = 0
   bc.height = 100
    bc.width = 150
    bc.data = (series1,)
    bc.bars.fillColor = colors.green
   bc.barLabelFormat = '%0.2f'
    bc.barLabels.dx = 0
   bc.barLabels.dy = 0
    bc.barLabels.boxAnchor = 'w' # irrelevant (becomes 'c')
    bc.barLabels.angle = 90
   bc.barLabels.fontName = 'Helvetica'
    bc.barLabels.fontSize = 6
    bc.barLabels.nudge = 10
    bc.valueAxis.visible = 0
   bc.valueAxis.valueMin = -2
    bc.valueAxis.valueMax = +2
    bc.valueAxis.valueStep = 1
    bc.categoryAxis.tickUp = 0
    bc.categoryAxis.tickDown = 0
   bc.categoryAxis.categoryNames = names
    bc.categoryAxis.labels.angle = 90
    bc.categoryAxis.labels.boxAnchor = 'w'
    bc.categoryAxis.labels.dx = 0
    bc.categoryAxis.labels.dy = -125
    bc.categoryAxis.labels.fontName = 'Helvetica'
    bc.categoryAxis.labels.fontSize = 6
    q = Group(bc)
    g.translate(100, 175)
    g.rotate(-90)
    drawing.add(g)
```

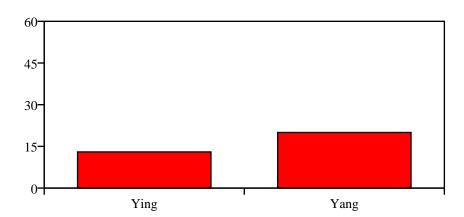
return drawing



sampleV4a(...)

A bar chart showing value axis region starting at *exactly* zero.

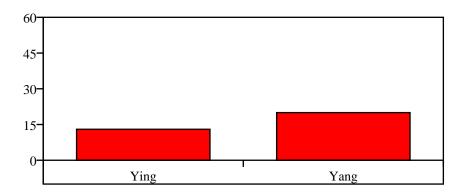
```
def sampleV4a():
    "A bar chart showing value axis region starting at *exactly* zero."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV4b(...)

A bar chart showing value axis region starting *below* zero.

```
def sampleV4b():
    "A bar chart showing value axis region starting *below* zero."
    drawing = Drawing(400, 200)
    data = [(13, 20)]
    bc = VerticalBarChart()
    bc.x = 50
    bc.x = 50
bc.y = 50
bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = -10
    bc.valueAxis.valueMax = 60
bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV4c(...)

A bar chart showing value axis region staring *above* zero.

```
def sampleV4c():
    "A bar chart showing value axis region staring *above* zero."
    drawing = Drawing(400, 200)

    data = [(13, 20)]

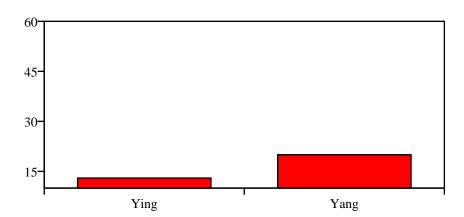
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
    bc.width = 300
    bc.data = data

    bc.strokeColor = colors.black

    bc.valueAxis.valueMin = 10
    bc.valueAxis.valueMin = 10
    bc.valueAxis.valueStep = 15

    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']

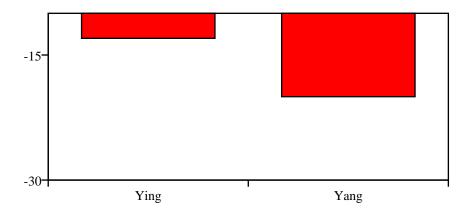
    drawing.add(bc)
    return drawing
```



sampleV4d(...)

A bar chart showing value axis region entirely *below* zero.

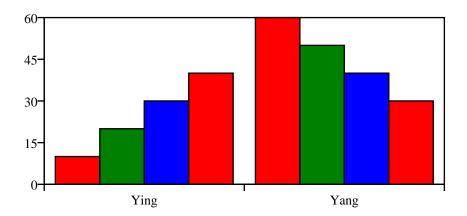
```
def sampleV4d():
    "A bar chart showing value axis region entirely *below* zero."
    drawing = Drawing(400, 200)
    data = [(-13, -20)]
    bc = VerticalBarChart()
    bc.x = 50
    bc.x = 50
bc.y = 50
bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = -30
    bc.valueAxis.valueMax = -10
bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5a(...)

A simple bar chart with no expressed spacing attributes.

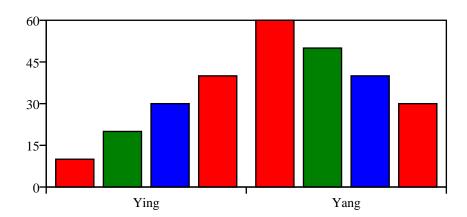
```
def sampleV5a():
    "A simple bar chart with no expressed spacing attributes."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.y = 30
bc.height = 125
bc.width = 300
bc.data = data
    bc.strokeColor = colors.black
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5b(...)

A simple bar chart with proportional spacing.

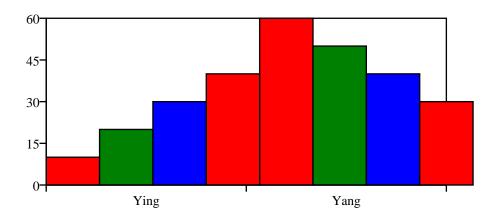
```
def sampleV5b():
    "A simple bar chart with proportional spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 0
    bc.barWidth = 40
    bc.groupSpacing = 20
bc.barSpacing = 10
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5c1(...)

Make sampe simple bar chart but with absolute spacing.

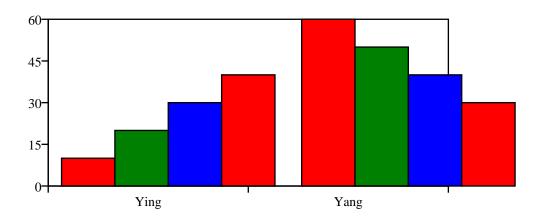
```
def sampleV5c1():
    "Make sampe simple bar chart but with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
   bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 40
    bc.groupSpacing = 0
    bc.barSpacing = 0
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5c2(...)

Make sampe simple bar chart but with absolute spacing.

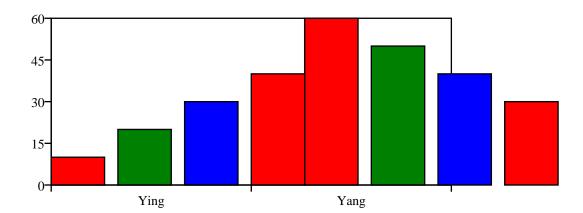
```
def sampleV5c2():
    "Make sampe simple bar chart but with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
   bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 40
    bc.groupSpacing = 20
    bc.barSpacing = 0
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5c3(...)

Make sampe simple bar chart but with absolute spacing.

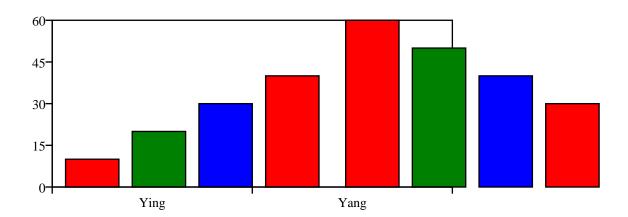
```
def sampleV5c3():
    "Make sampe simple bar chart but with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 40
    bc.groupSpacing = 0
bc.barSpacing = 10
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



sampleV5c4(...)

Make sampe simple bar chart but with absolute spacing.

```
def sampleV5c4():
    "Make sampe simple bar chart but with absolute spacing."
    drawing = Drawing(400, 200)
    data = dataSample5
    bc = VerticalBarChart()
    bc.x = 50
    bc.y = 50
    bc.height = 125
bc.width = 300
    bc.data = data
    bc.strokeColor = colors.black
    bc.useAbsolute = 1
    bc.barWidth = 40
    bc.groupSpacing = 20
bc.barSpacing = 10
    bc.valueAxis.valueMin = 0
    bc.valueAxis.valueMax = 60
    bc.valueAxis.valueStep = 15
    bc.categoryAxis.labels.boxAnchor = 'n'
    bc.categoryAxis.labels.dy = -5
    bc.categoryAxis.categoryNames = ['Ying', 'Yang']
    drawing.add(bc)
    return drawing
```



dotbox

Classes

DotBox(Widget)

Returns a dotbox widget.

Public Attributes

dotColor Colour of the circle on the box

dotDiameter Diameter of the circle used for the 'dot'

dotXPosition X Position of the circle

dotYPosition X Position of the circle

gridColor Colour for the box and gridding

gridDivWidth Width of each 'box'

labelFontName Name of font used for the labels

labelFontSize Size of font used for the labels

labelOffset Space between label text and grid edge

strokeWidth Width of the grid and dot outline

x X Position of dotbox

xlabels List of text labels for boxes on left hand side

y Y Position of dotbox

ylabels Text label for second box on left hand side

Example

```
def demo(self,drawing=None):
    if not drawing:
        tx,ty=self._getDrawingDimensions()
        drawing = Drawing(tx,ty)
    drawing.add(self.draw())
    return drawing
```



```
dotColor = Color(.909804,.878431,.466667,1)
dotDiameter = 11.338582677165356
dotXPosition = 1
dotYPosition = 1
gridColor = Color(.098039,.301961,.529412,1)
gridDivWidth = 14.173228346456693
labelFontName = 'Helvetica'
labelFontSize = 6
```

```
labelOffset = 5
strokeWidth = 0.5
x = 30
xlabels = ['Value', 'Blend', 'Growth']
y = 5
ylabels = ['Small', 'Medium', 'Large']
```

doughnut

Doughnut chart

Produces a circular chart like the doughnut charts produced by Excel. Can handle multiple series (which produce concentric 'rings' in the chart).

Classes

Doughnut(AbstractPieChart)

Public Attributes

checkLabelOverlap If true check and attempt to fix standard label overlaps(default off)

data list of numbers defining sector sizes; need not sum to 1

direction 'clockwise' or 'anticlockwise'

height height of doughnut bounding box. Need not be same as height.

labels optional list of labels to use for each data point

sideLabels If true attempt to make chart with labels along side and pointers

simpleLabels If true(default) use String not super duper WedgeLabel

slices collection of sector descriptor objects

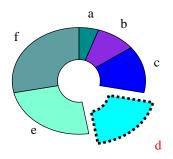
startAngle angle of first slice; like the compass, 0 is due North

width width of doughnut bounding box. Need not be same as width.

x X position of the chart within its container.

y Y position of the chart within its container.

```
def demo(self):
    d = Drawing(200, 100)
    dn = Doughnut()
    dn.x = 50
    dn.y = 10
    dn.width = 100
    dn.height = 80
    dn.data = [10,20,30,40,50,60]
    dn.labels = ['a','b','c','d','e','f']
    dn.slices.strokeWidth=0.5
    dn.slices[3].popout = 10
    dn.slices[3].strokeWidth = 2
    dn.slices[3].strokeDashArray = [2,2]
    dn.slices[3].labelRadius = 1.75
    dn.slices[3].fontColor = colors.red
    dn.slices[0].fillColor = colors.darkcyan
    dn.slices[1].fillColor = colors.blueviolet
    dn.slices[2].fillColor = colors.blue
    dn.slices[3].fillColor = colors.cyan
    dn.slices[4].fillColor = colors.aquamarine
    dn.slices[5].fillColor = colors.cadetblue
    dn.slices[6].fillColor = colors.lightcoral
    d.add(dn)
    return d
```



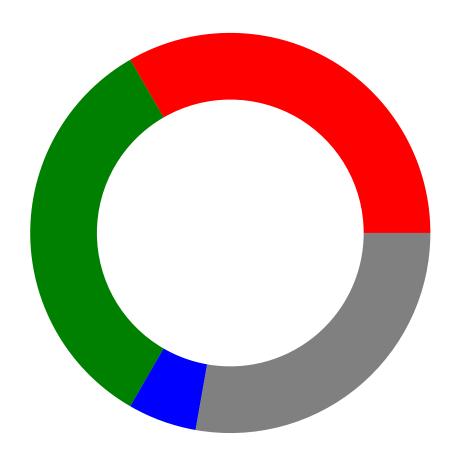
```
checkLabelOverlap = 0
data = [1, 1]
direction = 'clockwise'
height = 100
labels = None
sideLabels = 0
simpleLabels = 1
slices = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04C56A80>
startAngle = 90
width = 100
x = 0
y = 0
```

Functions

```
sample1( ... )
```

Make up something from the individual Sectors

```
def sample1():
               "Make up something from the individual Sectors"
              d = Drawing(400, 400)
              g = Group()
               s1 = Wedge(centerx=200, centery=200, radius=150, startangledegrees=0, endangledegrees=120, radius=150, endangledegrees=120, radius=150, endangledegrees=120, radius=150, endangledegrees=120, endangledeg
               s1.fillColor=colors.red
              {\tt s1.strokeColor=None}
               d.add(s1)
               s2 = Wedge(centerx=200, centery=200, radius=150, startangledegrees=120, endangledegrees=240, rad:
               s2.fillColor=colors.green
              s2.strokeColor=None
              d.add(s2)
               s3 = Wedge(centerx=200, centery=200, radius=150, startangledegrees=240, endangledegrees=260, rad
               s3.fillColor=colors.blue
               s3.strokeColor=None
               d.add(s3)
               s4 = Wedge(centerx=200, centery=200, radius=150, startangledegrees=260, endangledegrees=360, rad:
              s4.fillColor=colors.gray
               s4.strokeColor=None
              d.add(s4)
               return d
```



sample2(...)

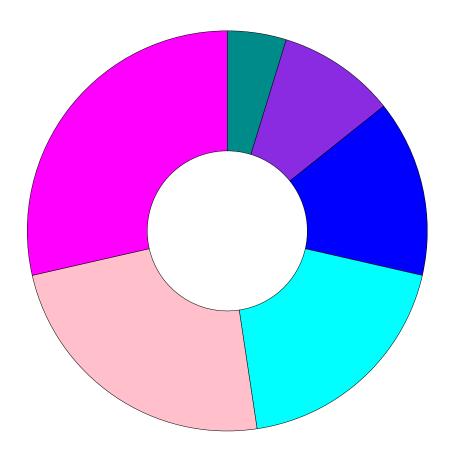
Make a simple demo

```
def sample2():
    "Make a simple demo"

    d = Drawing(400, 400)

    dn = Doughnut()
    dn.x = 50
    dn.y = 50
    dn.width = 300
    dn.height = 300
    dn.data = [10,20,30,40,50,60]

    d.add(dn)
    return d
```



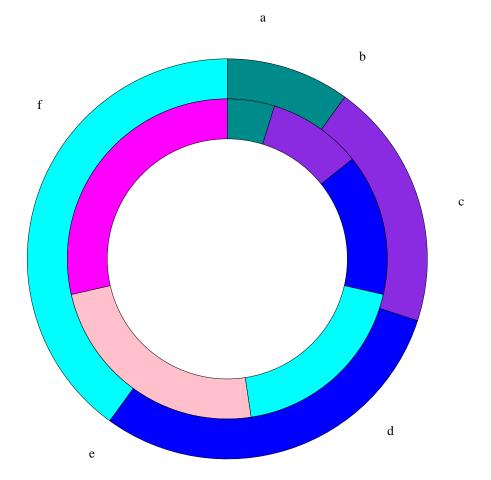
sample3(...)

Make a more complex demo

```
def sample3():
    "Make a more complex demo"

    d = Drawing(400, 400)
    dn = Doughnut()
    dn.x = 50
    dn.y = 50
    dn.width = 300
    dn.height = 300
    dn.data = [[10,20,30,40,50,60], [10,20,30,40]]
    dn.labels = ['a','b','c','d','e','f']

    d.add(dn)
    return d
```



sample4(...)

Make a more complex demo with Label Overlap fixing

Example

```
def sample4():
    "Make a more complex demo with Label Overlap fixing"

    d = Drawing(400, 400)
    dn = Doughnut()
    dn.x = 50
    dn.y = 50
    dn.width = 300
    dn.height = 300
    dn.data = [[10,20,30,40,50,60], [10,20,30,40]]
    dn.labels = ['a','b','c','d','e','f']
    dn.checkLabelOverlap = True

    d.add(dn)
    return d
```

legends

This will be a collection of legends to be used with charts.

Classes

Legend(Widget)

A simple legend containing rectangular swatches and strings.

The swatches are filled rectangles whenever the respective color object in 'colorNamePairs' is a subclass of Color in reportlab.lib.colors. Otherwise the object passed instead is assumed to have 'x', 'y', 'width' and 'height' attributes. A legend then tries to set them or catches any error. This lets you plug-in any widget you like as a replacement for the default rectangular swatches.

Strings can be nicely aligned left or right to the swatches.

Public Attributes

alignment Alignment of text with respect to swatches

autoXPadding x Padding between columns if deltax=None

autoYPadding y Padding between rows if deltay=None

boxAnchor Anchor point for the legend area

callout a user callout(self,g,x,y,(color,text))

colEndCallout a user callout(self,g, x, xt, y,width, lWidth)

colorNamePairs List of color/name tuples (color can also be widget)

columnMaximum Max. number of items per column

deltax x-distance between neighbouring swatches

deltay y-distance between neighbouring swatches

dividerColor dividerLines color

dividerDashArray Dash array for dividerLines.

dividerLines If 1 we have dividers between the rows | 2 for extra top | 4 for bottom

dividerOffsX divider lines X offsets

dividerOffsY dividerLines Y offset

dividerWidth dividerLines width

dx Width of swatch rectangle

dxTextSpace Distance between swatch rectangle and text

dy Height of swatch rectangle

fillColor swatches filling color

fontName Font name of the strings

fontSize Font size of the strings

strokeColor Border color of the swatches

strokeWidth Width of the border color of the swatches

subCols subColumn properties

swatchCallout a user swatch callout(self,g,x,y,i,(col,name),swatch)

swatchMarker None, Auto() or makeMarker('Diamond') ...

swdx x position adjustment for the swatch

swdy y position adjustment for the swatch

variColumn If true column widths may vary (default is false)

x x-coordinate of upper-left reference point

y y-coordinate of upper-left reference point

yGap Additional gap between rows

Example

```
def demo(self):
    "Make sample legend."

d = Drawing(200, 100)

legend = Legend()
    legend.alignment = 'left'
    legend.y = 100
    legend.y = 100
    legend.dxTextSpace = 5
    items = 'red green blue yellow pink black white'.split()
    items = map(lambda i:(getattr(colors, i), i), items)
    legend.colorNamePairs = items

d.add(legend, 'legend')

return d
```

```
alignment = 'left'
autoXPadding = 5
autoYPadding = 2
boxAnchor = 'nw'
colEndCallout = None
(Color(0,.501961,0,1), 'green'),
                 (Color(1,.752941,.796078,1), 'pink'),
                 (Color(1,1,0,1), 'yellow')]
columnMaximum = 3
deltax = 75
deltay = 20
dividerColor = Color(0,0,0,1)
dividerDashArray = None
dividerLines = 0
dividerOffsX = (0, 0)
dividerOffsY = 0
dividerWidth = 0.5
dx = 10
dxTextSpace = 10
dy = 10
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
strokeColor = Color(0,0,0,1)
strokeWidth = 1
\verb|subCols| = \verb|sraphics.widgetbase.TypedPropertyCollection| instance at 0x04C7E7D8> \\
swatchMarker = None
swdx = 0
swdy = 0
variColumn = 0
```

x = 0 y = 0 yGap = 0

LineLegend(Legend)

A subclass of Legend for drawing legends with lines as the swatches rather than rectangles. Useful for lineCharts and linePlots. Should be similar in all other ways the the standard Legend class.

Public Attributes

alignment Alignment of text with respect to swatches

autoXPadding x Padding between columns if deltax=None

autoYPadding y Padding between rows if deltay=None

boxAnchor Anchor point for the legend area

callout a user callout(self,g,x,y,(color,text))

colEndCallout a user callout(self,g, x, xt, y,width, lWidth)

colorNamePairs List of color/name tuples (color can also be widget)

columnMaximum Max. number of items per column

deltax x-distance between neighbouring swatches

deltay y-distance between neighbouring swatches

dividerColor dividerLines color

dividerDashArray Dash array for dividerLines.

dividerLines If 1 we have dividers between the rows | 2 for extra top | 4 for bottom

dividerOffsX divider lines X offsets

dividerOffsY dividerLines Y offset

dividerWidth dividerLines width

dx Width of swatch rectangle

dxTextSpace Distance between swatch rectangle and text

dy Height of swatch rectangle

fillColor swatches filling color

fontName Font name of the strings

fontSize Font size of the strings

strokeColor Border color of the swatches

strokeWidth Width of the border color of the swatches

subCols subColumn properties

swatchCallout a user swatch callout(self,g,x,y,i,(col,name),swatch)

swatchMarker None, Auto() or makeMarker('Diamond') ...

swdx x position adjustment for the swatch

swdy y position adjustment for the swatch

variColumn If true column widths may vary (default is false)

x x-coordinate of upper-left reference point

y y-coordinate of upper-left reference point

yGap Additional gap between rows

Example

```
def demo(self):
    "Make sample legend."

d = Drawing(200, 100)

legend = Legend()
legend.alignment = 'left'
legend.x = 0
legend.y = 100
legend.dxTextSpace = 5
items = 'red green blue yellow pink black white'.split()
items = map(lambda i:(getattr(colors, i), i), items)
legend.colorNamePairs = items

d.add(legend, 'legend')
return d
```

```
alignment = 'left'
autoXPadding = 5
autoYPadding = 2
boxAnchor = 'nw'
colEndCallout = None
columnMaximum = 3
deltax = 75
deltay = 20
dividerColor = Color(0,0,0,1)
dividerDashArray = None
dividerLines = 0
dividerOffsX = (0, 0)
dividerOffsY = 0
dividerWidth = 0.5
dx = 10
dxTextSpace = 10
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
strokeColor = Color(0,0,0,1)
strokeWidth = 1
\verb|subCols| = \verb|sraphics.widgetbase.TypedPropertyCollection| instance at 0x04CBB260> \\
swatchMarker = None
swdx = 0
swdy = 0
variColumn = 0
x = 0
y = 0
yGap = 0
```

LineSwatch(Widget)

basically a Line with properties added so it can be used in a LineLegend

Public Attributes

height used for line strokeWidth

strokeColor color of swatch line

strokeDashArray dash array for swatch line

width length of swatch line

x x-coordinate for swatch line start point

y y-coordinate for swatch line start point

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
height = 1
strokeColor = Color(1,0,0,1)
strokeDashArray = None
width = 20
x = 0
y = 0
```

Functions

```
sample1c( ... )
```

Make sample legend.

```
def sample1c():
            "Make sample legend."
            d = Drawing(200, 100)
            legend = Legend()
            legend.alignment = 'right'
legend.x = 0
legend.y = 100
            legend.dxTextSpace = 5
            items = 'red green blue yellow pink black white'.split()
items = map(lambda i:(getattr(colors, i), i), items)
            legend.colorNamePairs = items
            d.add(legend, 'legend')
            return d
                 yellow
                                     ☐ white
red
green
                 pink
blue
                 black
```

```
sample2c( ... )
```

Make sample legend.

yellow

```
def sample2c():
     "Make sample legend."
     d = Drawing(200, 100)
     legend = Legend()
legend.alignment = 'right'
     legend.x = 20
legend.y = 90
     legend.deltax = 60
     legend.dxTextSpace = 10
     legend.columnMaximum = 4
     items = 'red green blue yellow pink black white'.split()
items = map(lambda i:(getattr(colors, i), i), items)
     legend.colorNamePairs = items
     d.add(legend, 'legend')
     return d
red
                pink
green
                 black
                white
blue
```

```
sample3( ... )
```

Make sample legend with line swatches.

```
def sample3():
     "Make sample legend with line swatches."
     d = Drawing(200, 100)
     legend = LineLegend()
legend.alignment = 'right'
     legend.x = 20
legend.y = 90
     legend.deltax = 60
     legend.dxTextSpace = 10
     legend.columnMaximum = 4
     items = 'red green blue yellow pink black white'.split()
items = map(lambda i:(getattr(colors, i), i), items)
     legend.colorNamePairs = items
     d.add(legend, 'legend')
     return d
red
                 pink
                black
 green
blue
                 white
yellow
```

```
sample3a( ... )
```

Make sample legend with line swatches and dasharrays on the lines.

```
def sample3a():
    "Make sample legend with line swatches and dasharrays on the lines."
    d = Drawing(200, 100)
    legend = LineLegend()
    legend.alignment = 'right'
    legend.x = 20
    legend.y = 90
    legend.deltax = 60
    legend.dxTextSpace = 10
    legend.columnMaximum = 4
    items = 'red green blue yellow pink black white'.split() darrays = ([2,1], [2,5], [2,2,5,5], [1,2,3,4], [4,2,3,4], [1,2,3,4,5,6], [1])
    cnp = []
    for i in range(0, len(items)):
        1 = LineSwatch()
        1.strokeColor = getattr(colors, items[i])
        1.strokeDashArray = darrays[i]
        cnp.append((1, items[i]))
    legend.colorNamePairs = cnp
    d.add(legend, 'legend')
    return d
              pink
red
              black
 green
blue
               white
yellow
```

linecharts

This modules defines a very preliminary Line Chart example.

Classes

AbstractLineChart(PlotArea)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
background = None
debug = 0
fillColor = None
height = 85
strokeColor = None
strokeWidth = 1
width = 180
x = 20
y = 10
```

HorizontalLineChart(LineChart)

Line chart with multiple lines.

A line chart is assumed to have one category and one value axis. Despite its generic name this particular line chart class has a vertical value axis and a horizontal category one. It may evolve into individual horizontal and vertical variants (like with the existing bar charts).

Available attributes are:

x: x-position of lower-left chart origin y: y-position of lower-left chart origin

width: chart width height: chart height

useAbsolute: disables auto-scaling of chart elements (?) lineLabelNudge: distance of data labels to data points

lineLabels: labels associated with data values lineLabelFormat: format string or callback function

groupSpacing: space between categories

joinedLines: enables drawing of lines

strokeColor: color of chart lines (?) fillColor: color for chart background (?) lines: style list, used cyclically for data series

valueAxis: value axis object categoryAxis: category axis object categoryNames: category names

data: chart data, a list of data series of equal length

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

categoryAxis Handle of the category axis.

categoryNames List of category names.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing? - Likely to disappear.

height Height of the chart.

inFill Whether infilling should be done.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

useAbsolute Flag to use absolute spacing values.

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

Example

```
background = None
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CE2468>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
```

```
categoryAxis.style = 'parallel'
categoryAxis.tickDown = 5
categoryAxis.tickShift = 0
categoryAxis.tickUp = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNames = ('North', 'South', 'East', 'West')
data = [(100, 110, 120, 130), (70, 80, 80, 90)]
debug = 0
fillColor = None
groupSpacing = 1
height = 85
inFill = 0
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CE25A8>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CE2558>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CE2508>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickLeft = 5
```

```
valueAxis.tickRight = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
y = 10
```

HorizontalLineChart3D(HorizontalLineChart)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

categoryAxis Handle of the category axis.

categoryNames List of category names.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing? - Likely to disappear.

height Height of the chart.

inFill Whether infilling should be done.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

theta x dx/dz

theta_y dy/dz

useAbsolute Flag to use absolute spacing values.

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

zDepth depth of an individual series

zSpace z gap around series

```
lc.y = 10
lc.height = 85
lc.width = 170
lc.data = data
lc.lines.symbol = makeMarker('Circle')
drawing.add(lc)
return drawing
```

Properties of Example Widget

```
background = None
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CEAB20>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickDown = 5
categoryAxis.tickShift = 0
categoryAxis.tickUp = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNames = ('North', 'South', 'East', 'West')
data = [(100, 110, 120, 130), (70, 80, 80, 90)]
debug = 0
fillColor = None
groupSpacing = 1
height = 85
inFill = 0
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CEAC38>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CEABE8>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
```

valueAxis.gridStrokeLineJoin = 0

```
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CEAB98>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickLeft = 5
valueAxis.tickRight = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
```

y = 10

LineChart(AbstractLineChart)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
background = None
debug = 0
fillColor = None
height = 85
strokeColor = None
strokeWidth = 1
width = 180
x = 20
y = 10
```

SampleHorizontalLineChart(HorizontalLineChart)

Sample class overwriting one method to draw additional horizontal lines.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

categoryAxis Handle of the category axis.

categoryNames List of category names.

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

fillColor Color of the plot area interior.

groupSpacing? - Likely to disappear.

height Height of the chart.

inFill Whether infilling should be done.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

useAbsolute Flag to use absolute spacing values.

valueAxis Handle of the value axis.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

```
lc.strokeColor = colors.white
lc.fillColor = colors.HexColor(0xCCCCCC)
drawing.add(lc)
return drawing
```

```
background = None
categoryAxis.categoryNames = None
categoryAxis.drawGridLast = False
categoryAxis.gridEnd = None
categoryAxis.gridStart = None
categoryAxis.gridStrokeColor = Color(0,0,0,1)
categoryAxis.gridStrokeDashArray = None
categoryAxis.gridStrokeLineCap = 0
categoryAxis.gridStrokeLineJoin = 0
categoryAxis.gridStrokeMiterLimit = 10
categoryAxis.gridStrokeWidth = 0.25
categoryAxis.hiLLen = 0
categoryAxis.hiPad = 0
categoryAxis.joinAxis = None
categoryAxis.joinAxisMode = None
categoryAxis.joinAxisPos = None
categoryAxis.labelAxisMode = 'axis'
categoryAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CF2EB8>
categoryAxis.loLLen = 0
categoryAxis.loPad = 0
categoryAxis.reverseDirection = 0
categoryAxis.strokeColor = Color(0,0,0,1)
categoryAxis.strokeDashArray = None
categoryAxis.strokeLineCap = 0
categoryAxis.strokeLineJoin = 0
categoryAxis.strokeMiterLimit = 10
categoryAxis.strokeWidth = 1
categoryAxis.style = 'parallel'
categoryAxis.tickDown = 5
categoryAxis.tickShift = 0
categoryAxis.tickUp = 0
categoryAxis.visible = 1
categoryAxis.visibleAxis = 1
categoryAxis.visibleGrid = 0
categoryAxis.visibleLabels = 1
categoryAxis.visibleTicks = 1
categoryNames = ('North', 'South', 'East', 'West')
data = [(100, 110, 120, 130), (70, 80, 80, 90)]
debug = 0
fillColor = None
groupSpacing = 1
height = 85
inFill = 0
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CF2FD0>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CF2F80>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
useAbsolute = 0
valueAxis.abf_ignore_zero = False
valueAxis.avoidBoundFrac = None
valueAxis.avoidBoundSpace = None
valueAxis.drawGridLast = False
valueAxis.forceZero = 0
valueAxis.gridEnd = None
valueAxis.gridStart = None
valueAxis.gridStrokeColor = Color(0,0,0,1)
valueAxis.gridStrokeDashArray = None
valueAxis.gridStrokeLineCap = 0
valueAxis.gridStrokeLineJoin = 0
valueAxis.gridStrokeMiterLimit = 10
valueAxis.gridStrokeWidth = 0.25
valueAxis.hiLLen = 0
```

```
valueAxis.joinAxis = None
valueAxis.joinAxisMode = None
valueAxis.joinAxisPos = None
valueAxis.keepTickLabelsInside = 0
valueAxis.labelAxisMode = 'axis'
valueAxis.labelTextFormat = None
valueAxis.labelTextPostFormat = None
valueAxis.labelTextScale = None
valueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04CF2F30>
valueAxis.loLLen = 0
valueAxis.maximumTicks = 7
valueAxis.minimumTickSpacing = 10
valueAxis.origShiftIPC = None
valueAxis.origShiftMin = None
valueAxis.origShiftSpecialValue = None
valueAxis.rangeRound = 'none'
valueAxis.requiredRange = 0
valueAxis.reverseDirection = 0
valueAxis.skipEndL = 'none'
valueAxis.strokeColor = Color(0,0,0,1)
valueAxis.strokeDashArray = None
valueAxis.strokeLineCap = 0
valueAxis.strokeLineJoin = 0
valueAxis.strokeMiterLimit = 10
valueAxis.strokeWidth = 1
valueAxis.style = 'normal'
valueAxis.subGridEnd = None
valueAxis.subGridStart = None
valueAxis.subGridStrokeColor = Color(0,0,0,1)
valueAxis.subGridStrokeDashArray = None
valueAxis.subGridStrokeLineCap = 0
valueAxis.subGridStrokeLineJoin = 0
valueAxis.subGridStrokeMiterLimit = 10
valueAxis.subGridStrokeWidth = 0.25
valueAxis.subTickHi = 0
valueAxis.subTickLo = 0
valueAxis.subTickNum = 0
valueAxis.tickAxisMode = 'axis'
valueAxis.tickLeft = 5
valueAxis.tickRight = 0
valueAxis.valueMax = None
valueAxis.valueMin = None
valueAxis.valueStep = None
valueAxis.visible = 1
valueAxis.visibleAxis = 1
valueAxis.visibleGrid = 0
valueAxis.visibleLabels = 1
valueAxis.visibleSubGrid = 0
valueAxis.visibleSubTicks = 0
valueAxis.visibleTicks = 1
valueAxis.zrangePref = 0
width = 180
x = 20
y = 10
```

VerticalLineChart(LineChart)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

Example

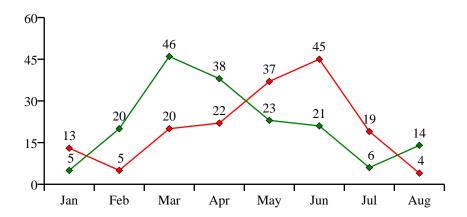
```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
background = None
debug = 0
fillColor = None
height = 85
strokeColor = None
strokeWidth = 1
width = 180
x = 20
y = 10
```

Functions

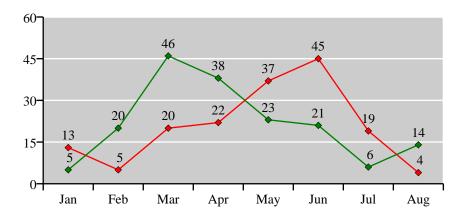
```
sample1( ... )
```

```
def sample1():
    drawing = Drawing(400, 200)
    data = [
              (13, 5, 20, 22, 37, 45, 19, 4),
(5, 20, 46, 38, 23, 21, 6, 14)
    lc = HorizontalLineChart()
    lc.x = 50
lc.y = 50
lc.height = 125
lc.width = 300
    lc.data = data
    lc.joinedLines = 1
    lc.lines.symbol = makeMarker('FilledDiamond')
    lc.lineLabelFormat = '%2.0f'
    catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
    lc.categoryAxis.categoryNames = catNames
    lc.categoryAxis.labels.boxAnchor = 'n'
    lc.valueAxis.valueMin = 0
    lc.valueAxis.valueMax = 60
    lc.valueAxis.valueStep = 15
    drawing.add(lc)
    return drawing
```



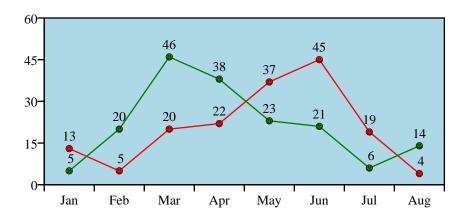
sample1a(...)

```
def samplela():
    drawing = Drawing(400, 200)
              (13, 5, 20, 22, 37, 45, 19, 4),
(5, 20, 46, 38, 23, 21, 6, 14)
     lc = SampleHorizontalLineChart()
     1c.x = 50
     lc.y = 50
     lc.height = 125
     lc.width = 300
     lc.data = data
     lc.joinedLines = 1
     lc.strokeColor = colors.white
     lc.fillColor = colors.HexColor(0xCCCCCC)
     lc.lines.symbol = makeMarker('FilledDiamond')
     lc.lineLabelFormat = '%2.0f'
    catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
lc.categoryAxis.categoryNames = catNames
     lc.categoryAxis.labels.boxAnchor = 'n'
     lc.valueAxis.valueMin = 0
     lc.valueAxis.valueMax = 60
     lc.valueAxis.valueStep = 15
     drawing.add(lc)
     return drawing
```



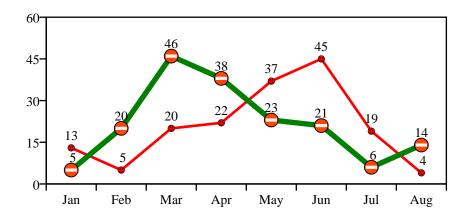
sample2(...)

```
def sample2():
    drawing = Drawing(400, 200)
              (13, 5, 20, 22, 37, 45, 19, 4),
(5, 20, 46, 38, 23, 21, 6, 14)
     lc = HorizontalLineChart()
     lc.x = 50
     lc.y = 50
     lc.height = 125
     lc.width = 300
    lc.data = data
    lc.joinedLines = 1
     lc.lines.symbol = makeMarker('Smiley')
     lc.lineLabelFormat = '%2.0f'
    lc.strokeColor = colors.black
     lc.fillColor = colors.lightblue
    catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
lc.categoryAxis.categoryNames = catNames
    lc.categoryAxis.labels.boxAnchor = 'n'
     lc.valueAxis.valueMin = 0
     lc.valueAxis.valueMax = 60
     lc.valueAxis.valueStep = 15
    drawing.add(lc)
     return drawing
```



sample3(...)

```
def sample3():
    drawing = Drawing(400, 200)
              (13, 5, 20, 22, 37, 45, 19, 4),
(5, 20, 46, 38, 23, 21, 6, 14)
     lc = HorizontalLineChart()
     1c.x = 50
     lc.y = 50
     lc.height = 125
    lc.width = 300
    lc.data = data
    lc.joinedLines = 1
    lc.lineLabelFormat = '%2.0f'
     lc.strokeColor = colors.black
    lc.lines[0].symbol = makeMarker('Smiley')
lc.lines[1].symbol = NoEntry
    lc.lines[0].strokeWidth = 2
lc.lines[1].strokeWidth = 4
     catNames = 'Jan Feb Mar Apr May Jun Jul Aug'.split(' ')
     lc.categoryAxis.categoryNames = catNames
     lc.categoryAxis.labels.boxAnchor = 'n'
     lc.valueAxis.valueMin = 0
     lc.valueAxis.valueMax = 60
     lc.valueAxis.valueStep = 15
     drawing.add(lc)
     return drawing
```



lineplots

This module defines a very preliminary Line Plot example.

Classes

AreaLinePlot(LinePlot)

we're given data in the form [(X1,Y11,..Y1M)....(Xn,Yn1,...YnM)]

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

yValueAxis Handle of the y axis.

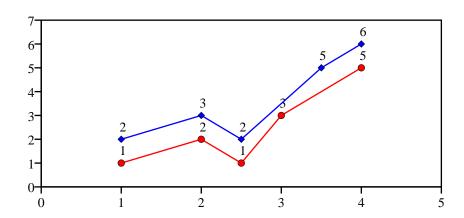
```
def demo(self):
    """Shows basic use of a line chart."""

drawing = Drawing(400, 200)

data = [
    ((1,1), (2,2), (2.5,1), (3,3), (4,5)),
    ((1,2), (2,3), (2.5,2), (3.5,5), (4,6))
    ]

lp = LinePlot()
    lp.x = 50
```

```
lp.y = 50
lp.height = 125
lp.width = 300
lp.data = data
lp.joinedLines = 1
lp.lineLabelFormat = '%2.0f'
lp.strokeColor = colors.black
lp.lines[0].strokeColor = colors.red
lp.lines[0].symbol = makeMarker('FilledCircle')
lp.lines[1].strokeColor = colors.blue
lp.lines[1].symbol = makeMarker('FilledDiamond')
lp.xValueAxis.valueMin = 0
lp.xValueAxis.valueMax = 5
lp.xValueAxis.valueStep = 1
lp.yValueAxis.valueMin = 0
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueStep = 1
drawing.add(lp)
return drawing
```



```
annotations = []
background = None
behindAxes = 0
data = [(1, 20, 100, 30), (2, 11, 50, 15), (3, 15, 70, 40)]
debug = 0
fillColor = None
gridFirst = 0
height = 85
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA1850>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA17B0>
reversePlotOrder = 1
strokeColor = None
strokeWidth = 1
width = 180
x = 20
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.drawGridLast = False
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
```

```
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA15D0>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'none'
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.strokeColor = Color(0,0,0,1)
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit =
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
xValueAxis.tickDown = 5
xValueAxis.tickUp = 0
xValueAxis.valueMax = None
xValueAxis.valueMin = None
xValueAxis.valueStep = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.zrangePref = 0
y = 10
yValueAxis.abf_ignore_zero = False
vValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
yValueAxis.gridEnd = None
yValueAxis.gridStart = None
yValueAxis.gridStrokeColor = Color(0,0,0,1)
yValueAxis.gridStrokeDashArray = None
yValueAxis.gridStrokeLineCap = 0
yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
vValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
```

yValueAxis.labelAxisMode = 'axis'

```
yValueAxis.labelTextFormat = None
yValueAxis.labelTextPostFormat = None
yValueAxis.labelTextScale = None
yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA1760>
yValueAxis.loLLen = 0
yValueAxis.maximumTicks = 7
yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection =
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
yValueAxis.strokeDashArray = None
yValueAxis.strokeLineCap = 0
yValueAxis.strokeLineJoin = 0
yValueAxis.strokeMiterLimit = 10
yValueAxis.strokeWidth = 1
yValueAxis.style = 'normal'
yValueAxis.subGridEnd = None
vValueAxis.subGridStart = None
yValueAxis.subGridStrokeColor = Color(0,0,0,1)
yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit = 10
yValueAxis.subGridStrokeWidth = 0.25
yValueAxis.subTickHi = 0
yValueAxis.subTickLo = 0
yValueAxis.subTickNum = 0
yValueAxis.tickAxisMode = 'axis'
yValueAxis.tickLeft = 5
yValueAxis.tickRight = 0
yValueAxis.valueMax = None
yValueAxis.valueMin = None
yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

GridLinePlot(SimpleTimeSeriesPlot)

A customized version of SimpleTimeSeriesSPlot.

It uses NormalDateXValueAxis() and AdjYValueAxis() for the X and Y axes.

The chart has a default grid background with thin horizontal lines aligned with the tickmarks (and labels). You can change the background to be any Grid or ShadedRect, or scale the whole chart. If you do provide a background, you can specify the colours of the stripes with 'background.stripeColors'.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Background for chart area (now Grid or ShadedRect).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

scaleFactor Scalefactor to apply to whole drawing.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

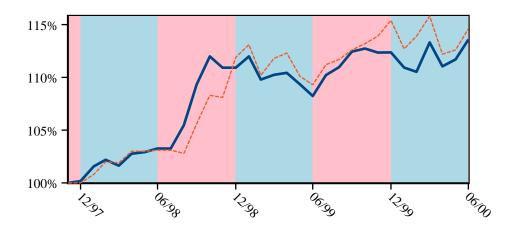
xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

yValueAxis Handle of the y axis.

```
def demo(self,drawing=None):
    from reportlab.lib import colors
    if not drawing:
        drawing = Drawing(400, 200)
    lp = GridLinePlot()
    lp.x = 50
    lp.y = 50
    lp.height = 125
    lp.width = 300
    lp.data = _monthlyIndexData
    lp.joinedLines = 1
```

```
lp.strokeColor = colors.black
c0 = colors.PCMYKColor(100,65,0,30, spotName='PANTONE 288 CV', density=100)
lp.lines[0].strokeColor = c0
lp.lines[0].strokeWidth = 2
lp.lines[0].strokeDashArray = None
c1 = colors.PCMYKColor(0,79,91,0, spotName='PANTONE Wm Red CV', density=100)
lp.lines[1].strokeColor = c1
lp.lines[1].strokeWidth = 1
lp.lines[1].strokeDashArray = [3,1]
lp.xValueAxis.labels.fontSize = 10
lp.xValueAxis.labels.textAnchor = 'start'
lp.xValueAxis.labels.boxAnchor = 'w'
lp.xValueAxis.labels.angle = -45
lp.xValueAxis.labels.dx = 0
lp.xValueAxis.labels.dy = -8
lp.xValueAxis.xLabelFormat = '{mm}/{yy}'
lp.yValueAxis.labelTextFormat = '%5d%%
lp.yValueAxis.tickLeft = 5
lp.yValueAxis.labels.fontSize = 10
lp.background = Grid()
lp.background.stripeColors = [colors.pink, colors.lightblue]
lp.background.orientation = 'vertical'
drawing.add(lp,'plot')
return drawing
```



```
annotations = []
background.delta = 20
background.delta0 = 0
background.deltaSteps = []
background.fillColor = Color(1,1,1,1)
background.height = 100
background.orientation = 'horizontal'
background.stripeColors = [Color(1,0,0,1), Color(0,.501961,0,1), Color(0,0,1,1)]
background.strokeColor = Color(0,0,0,1)
background.strokeWidth = 0.5
background.useLines = 1
background.useRects = 0
background.width = 100
background.x = 0
background.y = 0
behindAxes = 0
data = [[(19971202, 100.0),
           (19971231, 100.1704367),
           (19980131, 101.5639577),
(19980228, 102.1879927),
           (19980331, 101.6337257),
(19980430, 102.7640446),
           (19980531, 102.9198038),
(19980630, 103.2593879),
(19980731, 103.2516421),
```

```
(19980831, 105.4744329),
(19980930, 109.3242705),
             (19981031, 111.9859291),
(19981130, 110.9184642),
             (19981231, 110.9184642),
(19990131, 111.9882532),
(19990228, 109.7912614),
             (19990331, 110.2418963),
(19990430, 110.4279321),
             (19990531, 109.3395547),
(19990630, 108.2341748),
             (19990731, 110.2129447),
(19990831, 110.9683062),
             (19990930, 112.4425371),
(19991031, 112.7314032),
(19991130, 112.3509645),
             (19991231, 112.3660659),
(20000131, 110.9255248),
             (20000229, 110.5266306),
(20000331, 113.3116101),
             (20000430, 111.0449133),
             (20000531, 111.702717),
(20000630, 113.5832178)],
           [(19971202, 100.0),
(19971231, 100.0),
             (19980131, 100.8),
(19980228, 102.0),
             (19980331, 101.9),
             (19980430, 103.0),
             (19980531, 103.0),
             (19980630, 103.1),
(19980731, 103.1),
             (19980831, 102.8),
(19980930, 105.6),
             (19981031, 108.3),
(19981130, 108.1),
(19981231, 111.9),
             (19990131, 113.1),
(19990228, 110.2),
             (19990331, 111.8),
             (19990430, 112.3),
             (19990531, 110.1),
(19990630, 109.3),
(19990731, 111.2),
             (19990831, 111.7),
(19990930, 112.6),
             (19991031, 113.2),
(19991130, 113.9),
             (19991231, 115.4),
(20000131, 112.7),
             (20000229, 113.9),
             (20000331, 115.8),
(20000430, 112.2),
             (20000531, 112.6),
(20000630, 114.6)]]
debug = 0
fillColor = None
gridFirst = 0
height = 85
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA3DC8>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA3D28>
reversePlotOrder = 0
scaleFactor = None
strokeColor = None
strokeWidth = 1
width = 180
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.bottomAxisLabelSlack = 0.1
xValueAxis.dailyFreq = 0
xValueAxis.dayOfWeekName = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sund
xValueAxis.drawGridLast = False
xValueAxis.forceDatesEachYear = []
```

```
xValueAxis.forceEndDate = 0
xValueAxis.forceFirstDate = 0
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA17B0>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.monthName = ['January'
                         'February',
                         'March',
                         'April',
                         'May',
                         'June'.
                         'July',
                         'August',
                         'September',
                         'October',
                         'November'
                         'December']
xValueAxis.niceMonth = 1
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'none'
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.specialTickClear = 0
xValueAxis.specifiedTickDates = None
xValueAxis.strokeColor = Color(0,0,0,1)
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit = 10
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
xValueAxis.tickDown = 5
xValueAxis.tickUp = 0
xValueAxis.valueMax = None
xValueAxis.valueMin = None
xValueAxis.valueStep = None
xValueAxis.valueSteps = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
```

xValueAxis.xLabelFormat = '{mm}/{yy}'

```
xValueAxis.zrangePref = 0
y = 10
yValueAxis.abf_ignore_zero = False
yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
yValueAxis.gridEnd = None
yValueAxis.gridStart = None
yValueAxis.gridStrokeColor = Color(0,0,0,1)
yValueAxis.gridStrokeDashArray = None
yValueAxis.gridStrokeLineCap = 0
yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
vValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
yValueAxis.labelAxisMode = 'axis'
yValueAxis.labelTextFormat = None
vValueAxis.labelTextPostFormat = None
yValueAxis.labelTextScale = None
yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DA3BE8>
yValueAxis.loLLen = 0
yValueAxis.maximumTicks = 7
yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection = 0
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
yValueAxis.strokeDashArray = None
yValueAxis.strokeLineCap = 0
yValueAxis.strokeLineJoin = 0
yValueAxis.strokeMiterLimit = 10
yValueAxis.strokeWidth = 1
yValueAxis.style = 'normal'
yValueAxis.subGridEnd = None
yValueAxis.subGridStart = None
yValueAxis.subGridStrokeColor = Color(0,0,0,1)
yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit =
yValueAxis.subGridStrokeWidth = 0.25
yValueAxis.subTickHi = 0
yValueAxis.subTickLo = 0
yValueAxis.subTickNum = 0
yValueAxis.tickAxisMode = 'axis'
yValueAxis.tickLeft = 5
yValueAxis.tickRight = 0
yValueAxis.valueMax = None
yValueAxis.valueMin = None
yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

LinePlot(AbstractLineChart)

Line plot with multiple lines.

Both x- and y-axis are value axis (so there are no seperate X and Y versions of this class).

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

yValueAxis Handle of the y axis.

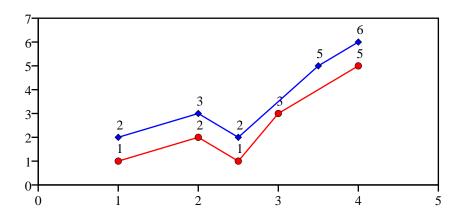
```
lp.joinedLines = 1
lp.lineLabelFormat = '%2.0f'
lp.strokeColor = colors.black

lp.lines[0].strokeColor = colors.red
lp.lines[0].symbol = makeMarker('FilledCircle')
lp.lines[1].strokeColor = colors.blue
lp.lines[1].symbol = makeMarker('FilledDiamond')

lp.xValueAxis.valueMin = 0
lp.xValueAxis.valueMax = 5
lp.xValueAxis.valueStep = 1

lp.yValueAxis.valueMin = 0
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueStep = 1

drawing.add(lp)
return drawing
```



```
annotations = []
background = None
behindAxes = 0
debug = 0
fillColor = None
gridFirst = 0
height = 85
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DB1918>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DB1878>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
width = 180
x = 20
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.drawGridLast = False
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
xValueAxis.gridStrokeDashArray = None
```

```
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DB17B0>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'none'
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.strokeColor = Color(0,0,0,1)
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit = 10
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
xValueAxis.tickDown = 5
xValueAxis.tickUp = 0
xValueAxis.valueMax = None
xValueAxis.valueMin = None
xValueAxis.valueStep = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.zrangePref = 0
yValueAxis.abf_ignore_zero = False
yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
yValueAxis.gridEnd = None
yValueAxis.gridStart = None
yValueAxis.gridStrokeColor = Color(0,0,0,1)
yValueAxis.gridStrokeDashArray = None
yValueAxis.gridStrokeLineCap = 0
yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
yValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
vValueAxis.labelAxisMode = 'axis'
yValueAxis.labelTextFormat = None
yValueAxis.labelTextPostFormat = None
```

yValueAxis.labelTextScale = None

```
yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DB1828> yValueAxis.loLLen = 0
yValueAxis.maximumTicks = 7
yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection = 0
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
yValueAxis.strokeDashArray = None
yValueAxis.strokeLineCap = 0
yValueAxis.strokeLineJoin = 0
vValueAxis.strokeMiterLimit = 10
yValueAxis.strokeWidth = 1
yValueAxis.style = 'normal'
yValueAxis.subGridEnd = None
yValueAxis.subGridStart = None
yValueAxis.subGridStrokeColor = Color(0,0,0,1)
yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit = 10
yValueAxis.subGridStrokeWidth = 0.25
yValueAxis.subTickHi = 0
yValueAxis.subTickLo = 0
yValueAxis.subTickNum = 0
yValueAxis.tickAxisMode = 'axis'
yValueAxis.tickLeft = 5
yValueAxis.tickRight = 0
yValueAxis.valueMax = None
yValueAxis.valueMin = None
yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

LinePlot3D(LinePlot)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

theta x dx/dz

theta_y dy/dz

width Width of the chart.

x X position of the lower-left corner of the chart.

xValueAxis Handle of the x axis.

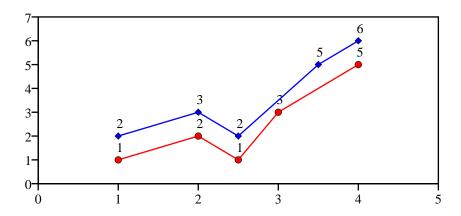
y Y position of the lower-left corner of the chart.

yValueAxis Handle of the y axis.

zDepth depth of an individual series

zSpace z gap around series

```
lp.data = data
lp.joinedLines = 1
lp.lineLabelFormat = '%2.0f'
lp.strokeColor = colors.black
lp.lines[0].strokeColor = colors.red
lp.lines[0].symbol = makeMarker('FilledCircle')
lp.lines[1].strokeColor = colors.blue
lp.lines[1].symbol = makeMarker('FilledDiamond')
lp.xValueAxis.valueMin = 0
lp.xValueAxis.valueMax = 5
lp.xValueAxis.valueStep = 1
lp.yValueAxis.valueMin = 0
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueStep = 1
drawing.add(lp)
return drawing
```



```
annotations = []
background = None
behindAxes = 0
data = [((1, 1), (2, 2), (2.5, 1), (3, 3), (4, 5)),
        ((1, 2), (2, 3), (2.5, 2), (3, 4), (4, 6))]
debug = 0
fillColor = None
gridFirst = 0
height = 85
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DBC558>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DBC4B8>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
width = 180
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.drawGridLast = False
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
```

```
xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DBC3F0>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'none
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.strokeColor = Color(0,0,0,1)
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit = 10
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
xValueAxis.tickDown = 5
xValueAxis.tickUp = 0
xValueAxis.valueMax = None
xValueAxis.valueMin = None
xValueAxis.valueStep = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.zrangePref = 0
v = 10
yValueAxis.abf_ignore_zero = False
yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
yValueAxis.gridEnd = None
yValueAxis.gridStart = None
yValueAxis.gridStrokeColor = Color(0,0,0,1)
yValueAxis.gridStrokeDashArray = None
yValueAxis.gridStrokeLineCap = 0
yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
yValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
yValueAxis.labelAxisMode = 'axis'
yValueAxis.labelTextFormat = None
yValueAxis.labelTextPostFormat = None
```

```
yValueAxis.labelTextScale = None
yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DBC468>
yValueAxis.loLLen = 0
yValueAxis.maximumTicks = 7
yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection = 0
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
yValueAxis.strokeDashArray = None
yValueAxis.strokeLineCap = 0
yValueAxis.strokeLineJoin = 0
yValueAxis.strokeMiterLimit = 10
yValueAxis.strokeWidth = 1
yValueAxis.style = 'normal'
yValueAxis.subGridEnd = None
yValueAxis.subGridStart = None
yValueAxis.subGridStrokeColor = Color(0,0,0,1)
yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit =
yValueAxis.subGridStrokeWidth = 0.25
yValueAxis.subTickHi = 0
yValueAxis.subTickLo = 0
yValueAxis.subTickNum = 0
yValueAxis.tickAxisMode = 'axis'
yValueAxis.tickLeft = 5
yValueAxis.tickRight = 0
yValueAxis.valueMax = None
yValueAxis.valueMin = None
yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

ScatterPlot(LinePlot)

A scatter plot widget

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

axisStrokeWidth Stroke width for both axes

axisTickLengths Lenth of the ticks on both axes

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

bottomPadding Padding at bottom of drawing

data Data points - a list of x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the area inside the axes

joinedLines Display data points joined with lines if true.

labelOffset Space between label and Axis (or other labels)

leftPadding Padding on left of drawing

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

outerBorderColor Color of outer border (if any)

outerBorderOn Is there an outer border (continuation of axes)

reversePlotOrder If true reverse plot order.

rightPadding Padding on right of drawing

strokeColor Color used for border of plot area.

strokeWidth Width plot area border.

topPadding Padding at top of drawing

width Width of the area inside the axes

x X position of the lower-left corner of the chart.

xLabel Label for the whole X-Axis

xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

yLabel Label for the whole Y-Axis

yValueAxis Handle of the y axis.

Example

```
def demo(self,drawing=None):
    if not drawing:
        tx,ty=self._getDrawingDimensions()
        drawing = Drawing(tx,ty)
    drawing.add(self.draw())
    return drawing
```

```
annotations = []
background = None
behindAxes = 0
bottomPadding = 5
data = [((0.03, 62.73), (0.074, 54.363), (1.216, 17.964)),
        ((1.36, 11.621), (1.387, 50.011), (1.428, 68.953)),
        ((1.444, 86.888), (1.754, 35.58), (1.766, 36.05))]
debug = 0
fillColor = None
gridFirst = 0
height = 77
joinedLines = 0
leftPadding = 5
lineLabelArray = None
lineLabelFormat = '%.2f'
lineLabelNudge = 0
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DC7670>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DC75D0>
outerBorderColor = Color(0,0,0,1)
outerBorderOn = 1
reversePlotOrder = 0
rightPadding = 10
strokeColor = None
strokeWidth = 1
topPadding = 5
width = 142
x = 25.996
xLabel = 'X Lable'
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.drawGridLast = False
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DC7508>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'both'
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.strokeColor = Color(0,0,0,1)
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
```

```
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 0.5
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit = 10
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
xValueAxis.tickDown = 2
xValueAxis.tickUp = 0
xValueAxis.valueMax = None
xValueAxis.valueMin = None
xValueAxis.valueStep = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.zrangePref = 0
y = 16
yLabel = 'Y Lable'
yValueAxis.abf_ignore_zero = False
yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
yValueAxis.gridEnd = None
yValueAxis.gridStart = None
yValueAxis.gridStrokeColor = Color(0,0,0,1)
yValueAxis.gridStrokeDashArray = None
yValueAxis.gridStrokeLineCap = 0
yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
yValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
yValueAxis.labelAxisMode = 'axis'
yValueAxis.labelTextFormat = '%s'
yValueAxis.labelTextPostFormat = None
vValueAxis.labelTextScale = None
yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DC7580>
yValueAxis.loLLen = 0
yValueAxis.maximumTicks = 7
yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'both'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection = 0
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
yValueAxis.strokeDashArray = None
yValueAxis.strokeLineCap = 0
yValueAxis.strokeLineJoin = 0
yValueAxis.strokeMiterLimit = 10
yValueAxis.strokeWidth = 0.5
yValueAxis.style = 'normal'
yValueAxis.subGridEnd = None
yValueAxis.subGridStart = None
yValueAxis.subGridStrokeColor = Color(0,0,0,1)
yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit =
yValueAxis.subGridStrokeWidth = 0.25
yValueAxis.subTickHi = 0
```

```
yValueAxis.subTickLo = 0
yValueAxis.subTickNum = 0
yValueAxis.tickAxisMode = 'axis'
yValueAxis.tickLeft = 2
yValueAxis.tickRight = 0
yValueAxis.valueMax = None
yValueAxis.valueMin = None
yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.visibleTicks = 1
yValueAxis.visibleTicks = 1
```

ShadedPolyFiller(Filler, ShadedPolygon)

Public Attributes

fillColor filler interior color strokeColor filler edge color strokeWidth filler edge width

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

SimpleTimeSeriesPlot(LinePlot)

A customized version of LinePlot.

It uses NormalDateXValueAxis() and AdjYValueAxis() for the X and Y axes.

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

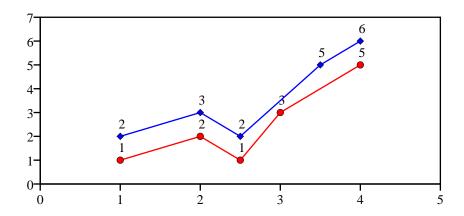
yValueAxis Handle of the y axis.

```
lp.lines[0].strokeColor = colors.red
lp.lines[0].symbol = makeMarker('FilledCircle')
lp.lines[1].strokeColor = colors.blue
lp.lines[1].symbol = makeMarker('FilledDiamond')

lp.xValueAxis.valueMin = 0
lp.xValueAxis.valueMax = 5
lp.xValueAxis.valueStep = 1

lp.yValueAxis.valueMin = 0
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueStep = 1

drawing.add(lp)
return drawing
```



```
annotations = []
background = None
behindAxes = 0
data = [[(19971202, 100.0), (19971231, 100.1704367),
                   (19980131, 101.5639577),
(19980228, 102.1879927),
                   (19980331, 101.6337257),
(19980430, 102.7640446),
                   (19980531, 102.9198038),
(19980630, 103.2593879),
(19980731, 103.2516421),
                   (19980831, 105.4744329),
(19980930, 109.3242705),
                   (19981031, 111.9859291),
(19981130, 110.9184642),
                   (19981231, 110.9184642),
                   (19990131, 111.9882532),
(19990228, 109.7912614),
                   (19990331, 110.2418963),
(19990430, 110.4279321),
                   (19990531, 109.3395547),
(19990630, 108.2341748),
                   (19990731, 110.2129447),
(19990831, 110.9683062),
(19990930, 112.4425371),
                   (19991031, 112.7314032),
(19991130, 112.3509645),
                   (19991231, 112.3660659),
(20000131, 110.9255248),
                   (20000229, 110.5266306),
(20000331, 113.3116101),
(20000430, 111.0449133),
```

```
(20000531, 111.702717),
(20000630, 113.5832178)],
                 [(19971202, 100.0),
(19971231, 100.0),
                    (19980131, 100.8),
(19980228, 102.0),
                    (19980331, 101.9),
                    (19980430, 103.0),
(19980531, 103.0),
                    (19980630, 103.1),
(19980731, 103.1),
                    (19980831, 102.8),
                    (19980930, 105.6),
                    (19981031, 108.3),
(19981130, 108.1),
(19981231, 111.9),
                    (19990131, 113.1),
                    (19990228, 110.2),
                    (19990331, 111.8),
                    (19990430, 112.3),
                    (19990531, 110.1),
                    (19990630, 109.3),
(19990731, 111.2),
                    (19990831, 111.7),
(19990930, 112.6),
                    (19991031, 113.2),
(19991130, 113.9),
                    (19991231, 115.4),
                    (20000131, 112.7),
(20000229, 113.9),
                    (20000331, 115.8),
                    (20000430, 112.2),
                    (20000531, 112.6),
(20000630, 114.6)]]
debug = 0
fillColor = None
gridFirst = 0
height = 85
joinedLines = 1
lineLabelArray = None
lineLabelFormat = None
lineLabelNudge = 10
lineLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD15D0>
lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD1530>
reversePlotOrder = 0
strokeColor = None
strokeWidth = 1
width = 180
x = 20
xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.bottomAxisLabelSlack = 0.1
xValueAxis.dailyFreq = 0
xValueAxis.dayOfWeekName = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday', 
xValueAxis.drawGridLast = False
xValueAxis.forceDatesEachYear = []
xValueAxis.forceEndDate = 0
xValueAxis.forceFirstDate = 0
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
xValueAxis.gridStrokeColor = Color(0,0,0,1)
xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD1648>
xValueAxis.loLLen = 0
```

```
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
xValueAxis.monthName = ['January'
                         'February'
                         'March',
                         'April',
                         'May',
                         'June',
                         'July'
                         'August',
                         'September',
                         'October',
                         'November'
                         'December']
xValueAxis.niceMonth = 1
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xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
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xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
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xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
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xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.xLabelFormat = '{mm}/{yy}'
xValueAxis.zrangePref = 0
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yValueAxis.abf_ignore_zero = False
yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
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```

```
vValueAxis.labelTextPostFormat = None
yValueAxis.labelTextScale = None
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yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = 0
yValueAxis.reverseDirection = 0
yValueAxis.skipEndL = 'none'
yValueAxis.strokeColor = Color(0,0,0,1)
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yValueAxis.subGridStrokeDashArray = None
yValueAxis.subGridStrokeLineCap = 0
yValueAxis.subGridStrokeLineJoin = 0
yValueAxis.subGridStrokeMiterLimit =
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yValueAxis.subTickHi = 0
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yValueAxis.valueStep = None
yValueAxis.visible = 1
yValueAxis.visibleAxis = 1
yValueAxis.visibleGrid = 0
yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

SplitLinePlot(AreaLinePlot)

Public Attributes

annotations list of callables, will be called with self, xscale, yscale.

background Handle to background object e.g. Rect(0,0,width,height).

behindAxes If true use separate line group.

data Data to be plotted, list of (lists of) x/y tuples.

debug Used only for debugging.

fillColor Color used for background interior of plot area.

gridFirst If true use draw grids before axes.

height Height of the chart.

joinedLines Display data points joined with lines if true.

lineLabelArray explicit array of line label values, must match size of data if present.

lineLabelFormat Formatting string or function used for data point labels.

lineLabelNudge Distance between a data point and its label.

lineLabels Handle to the list of data point labels.

lines Handle of the lines.

reversePlotOrder If true reverse plot order.

strokeColor Color used for background border of plot area.

strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

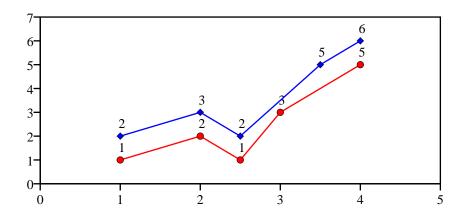
xValueAxis Handle of the x axis.

y Y position of the lower-left corner of the chart.

yValueAxis Handle of the y axis.

```
def demo(self):
    """Shows basic use of a line chart."""
    drawing = Drawing(400, 200)
        ((1,1), (2,2), (2.5,1), (3,3), (4,5)),
        ((1,2), (2,3), (2.5,2), (3.5,5), (4,6))
    lp = LinePlot()
    lp.x = 50
    lp.y = 50
    lp.height = 125
    lp.width = 300
    lp.data = data
    lp.joinedLines = 1
    lp.lineLabelFormat = '%2.0f'
    lp.strokeColor = colors.black
    lp.lines[0].strokeColor = colors.red
    lp.lines[0].symbol = makeMarker('FilledCircle')
    lp.lines[1].strokeColor = colors.blue
```

```
lp.lines[1].symbol = makeMarker('FilledDiamond')
lp.xValueAxis.valueMin = 0
lp.xValueAxis.valueMax = 5
lp.xValueAxis.valueStep = 1
lp.yValueAxis.valueMin = 0
lp.yValueAxis.valueMax = 7
lp.yValueAxis.valueStep = 1
drawing.add(lp)
return drawing
```



```
annotations = []
background = None
behindAxes = 0
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lines = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD5CD8>
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strokeWidth = 1
width = 180
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xValueAxis.abf_ignore_zero = False
xValueAxis.avoidBoundFrac = None
xValueAxis.avoidBoundSpace = None
xValueAxis.bottomAxisLabelSlack = 0.1
xValueAxis.dailyFreq = 0
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xValueAxis.drawGridLast = False
xValueAxis.forceDatesEachYear = []
xValueAxis.forceEndDate = 0
xValueAxis.forceFirstDate = 0
xValueAxis.forceZero = 0
xValueAxis.gridEnd = None
xValueAxis.gridStart = None
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xValueAxis.gridStrokeDashArray = None
xValueAxis.gridStrokeLineCap = 0
xValueAxis.gridStrokeLineJoin = 0
xValueAxis.gridStrokeMiterLimit = 10
xValueAxis.gridStrokeWidth = 0.25
xValueAxis.hiLLen = 0
xValueAxis.joinAxis = None
xValueAxis.joinAxisMode = None
xValueAxis.joinAxisPos = None
xValueAxis.keepTickLabelsInside = 0
xValueAxis.labelAxisMode = 'axis'
xValueAxis.labelTextFormat = None
xValueAxis.labelTextPostFormat = None
xValueAxis.labelTextScale = None
xValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD5DF0>
xValueAxis.loLLen = 0
xValueAxis.maximumTicks = 7
xValueAxis.minimumTickSpacing = 10
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                                                'March',
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                                                'May',
                                                'June'
                                               'July'
                                                'August',
                                                'September',
                                                'October',
                                                'November'
                                                'December']
xValueAxis.niceMonth = 1
xValueAxis.origShiftIPC = None
xValueAxis.origShiftMin = None
xValueAxis.origShiftSpecialValue = None
xValueAxis.rangeRound = 'none
xValueAxis.requiredRange = 0
xValueAxis.reverseDirection = 0
xValueAxis.skipEndL = 'none'
xValueAxis.specialTickClear = 0
xValueAxis.specifiedTickDates = None
xValueAxis.strokeColor = Color(0,0,0,1)
```

```
xValueAxis.strokeDashArray = None
xValueAxis.strokeLineCap = 0
xValueAxis.strokeLineJoin = 0
xValueAxis.strokeMiterLimit = 10
xValueAxis.strokeWidth = 1
xValueAxis.style = 'normal'
xValueAxis.subGridEnd = None
xValueAxis.subGridStart = None
xValueAxis.subGridStrokeColor = Color(0,0,0,1)
xValueAxis.subGridStrokeDashArray = None
xValueAxis.subGridStrokeLineCap = 0
xValueAxis.subGridStrokeLineJoin = 0
xValueAxis.subGridStrokeMiterLimit = 10
xValueAxis.subGridStrokeWidth = 0.25
xValueAxis.subTickHi = 0
xValueAxis.subTickLo = 0
xValueAxis.subTickNum = 0
xValueAxis.tickAxisMode = 'axis'
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xValueAxis.tickUp = 0
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xValueAxis.valueStep = None
xValueAxis.valueSteps = None
xValueAxis.visible = 1
xValueAxis.visibleAxis = 1
xValueAxis.visibleGrid = 0
xValueAxis.visibleLabels = 1
xValueAxis.visibleSubGrid = 0
xValueAxis.visibleSubTicks = 0
xValueAxis.visibleTicks = 1
xValueAxis.xLabelFormat = '{mm}/{yy}'
xValueAxis.zrangePref = 0
y = 10
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yValueAxis.avoidBoundFrac = None
yValueAxis.avoidBoundSpace = None
yValueAxis.drawGridLast = False
yValueAxis.forceZero = 0
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yValueAxis.gridStrokeDashArray = None
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yValueAxis.gridStrokeLineJoin = 0
yValueAxis.gridStrokeMiterLimit = 10
yValueAxis.gridStrokeWidth = 0.25
yValueAxis.hiLLen = 0
yValueAxis.joinAxis = None
yValueAxis.joinAxisMode = None
yValueAxis.joinAxisPos = None
yValueAxis.keepTickLabelsInside = 0
yValueAxis.labelAxisMode = 'axis'
yValueAxis.labelTextFormat = None
yValueAxis.labelTextPostFormat = None
yValueAxis.labelTextScale = None
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yValueAxis.labels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04DD5C10>
yValueAxis.leftAxisOrigShiftIPC = 0
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yValueAxis.leftAxisPercent = 0
yValueAxis.leftAxisSkipLL0 = 0
yValueAxis.loLLen = 0
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yValueAxis.minimumTickSpacing = 10
yValueAxis.origShiftIPC = None
yValueAxis.origShiftMin = None
yValueAxis.origShiftSpecialValue = None
yValueAxis.rangeRound = 'none'
yValueAxis.requiredRange = None
yValueAxis.reverseDirection = 0
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yValueAxis.strokeDashArray = None
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yValueAxis.strokeMiterLimit = 10
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yValueAxis.style = 'normal'
```

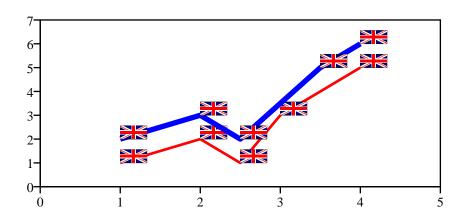
```
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yValueAxis.visibleLabels = 1
yValueAxis.visibleSubGrid = 0
yValueAxis.visibleSubTicks = 0
yValueAxis.visibleTicks = 1
yValueAxis.zrangePref = 0
```

Functions

```
sample1a( ... )
```

A line plot with non-equidistant points in x-axis.

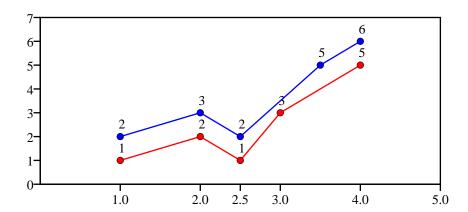
```
def samplela():
    "A line plot with non-equidistant points in x-axis."
    drawing = Drawing(400, 200)
    data = [
             ((1,1), (2,2), (2.5,1), (3,3), (4,5)), ((1,2), (2,3), (2.5,2), (3.5,5), (4,6))
    lp = LinePlot()
    lp.x = 50
    lp.y = 50
lp.height = 125
    lp.width = 300
    lp.data = data
    lp.joinedLines = 1
    lp.strokeColor = colors.black
    lp.lines.symbol = makeMarker('UK_Flag')
    lp.lines[0].strokeWidth = 2
    lp.lines[1].strokeWidth = 4
    lp.xValueAxis.valueMin = 0
    lp.xValueAxis.valueMax = 5
    lp.xValueAxis.valueStep = 1
    lp.yValueAxis.valueMin = 0
    lp.yValueAxis.valueMax = 7
    lp.yValueAxis.valueStep = 1
    drawing.add(lp)
    return drawing
```



sample1b(...)

A line plot with non-equidistant points in x-axis.

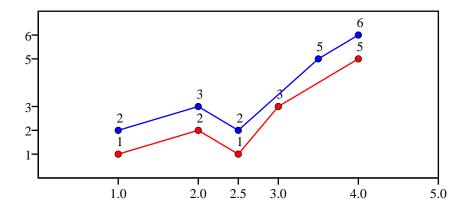
```
def sample1b():
     "A line plot with non-equidistant points in x-axis."
    drawing = Drawing(400, 200)
    data = [
              ((1,1), (2,2), (2.5,1), (3,3), (4,5)),
              ((1,2), (2,3), (2.5,2), (3.5,5), (4,6))
    lp = LinePlot()
    lp.x = 50
lp.y = 50
    lp.height = 125
    lp.width = 300
    lp.data = data
    lp.joinedLines = 1
    lp.lines.symbol = makeMarker('Circle')
lp.lineLabelFormat = '%2.0f'
    lp.strokeColor = colors.black
    lp.xValueAxis.valueMin = 0
    lp.xValueAxis.valueMax = 5
    lp.xValueAxis.valueSteps = [1, 2, 2.5, 3, 4, 5]
lp.xValueAxis.labelTextFormat = '%2.1f'
    lp.yValueAxis.valueMin = 0
    lp.yValueAxis.valueMax = 7
    lp.yValueAxis.valueStep = 1
    drawing.add(lp)
    return drawing
```



sample1c(...)

A line plot with non-equidistant points in x-axis.

```
def sample1c():
     "A line plot with non-equidistant points in x-axis."
    drawing = Drawing(400, 200)
    data = [
              ((1,1), (2,2), (2.5,1), (3,3), (4,5)),
              ((1,2), (2,3), (2.5,2), (3.5,5), (4,6))
    lp = LinePlot()
    lp.x = 50
lp.y = 50
    lp.height = 125
    lp.width = 300
    lp.data = data
    lp.joinedLines = 1
    lp.lines[0].symbol = makeMarker('FilledCircle')
    lp.lines[1].symbol = makeMarker('Circle')
lp.lineLabelFormat = '%2.0f'
    lp.strokeColor = colors.black
    lp.xValueAxis.valueMin = 0
    lp.xValueAxis.valueMax = 5
    lp.xValueAxis.valueSteps = [1, 2, 2.5, 3, 4, 5]
lp.xValueAxis.labelTextFormat = '%2.1f'
    lp.yValueAxis.valueMin = 0
    lp.yValueAxis.valueMax = 7
    lp.yValueAxis.valueSteps = [1, 2, 3, 5, 6]
    drawing.add(lp)
    return drawing
```



sample2(...)

A line plot with non-equidistant points in x-axis.

```
def sample2():
      "A line plot with non-equidistant points in x-axis."
      drawing = Drawing(400, 200)
            (('25/11/1991',1),
              ('30/11/1991',1.000933333),
             ('30/11/1991',1.000933333),

('31/12/1991',1.0062),

('31/01/1992',1.0112),

('29/02/1992',1.0158),

('31/03/1992',1.020733333),

('30/04/1992',1.026133333),

('31/05/1992',1.034466667),

('30/06/1992',1.034733333)
             ('31/07/1992',1.034466667),

('31/07/1992',1.038733333),

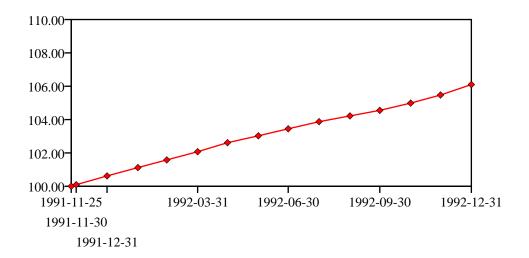
('31/08/1992',1.0422),

('30/09/1992',1.045533333),

('31/10/1992',1.049866667),

('30/11/1992',1.054733333),

('31/12/1992',1.061),
      data[0] = preprocessData(data[0])
      lp = LinePlot()
      lp.x = 50
      lp.y = 50
      lp.height = 125
      lp.width = 300
      lp.data = data
      lp.joinedLines = 1
     lp.lines.symbol = makeMarker('FilledDiamond')
      lp.strokeColor = colors.black
      start = mktime(mkTimeTuple('25/11/1991'))
     t0 = mktime(mkTimeTuple('30/11/1991'))
t1 = mktime(mkTimeTuple('31/12/1991'))
     t2 = mktime(mkTimeTuple('31/03/1992'))
t3 = mktime(mkTimeTuple('30/06/1992'))
t4 = mktime(mkTimeTuple('30/09/1992'))
      end = mktime(mkTimeTuple('31/12/1992'))
      lp.xValueAxis.valueMin = start
      lp.xValueAxis.valueMax = end
      lp.xValueAxis.valueSteps = [start, t0, t1, t2, t3, t4, end]
     lp.xValueAxis.labelTextFormat = seconds2str
lp.xValueAxis.labels[1].dy = -20
      lp.xValueAxis.labels[2].dy = -35
      lp.yValueAxis.labelTextFormat = '%4.2f'
      lp.yValueAxis.valueMin = 100
      lp.yValueAxis.valueMax = 110
      lp.yValueAxis.valueStep = 2
      drawing.add(lp)
      return drawing
```



piecharts

Basic Pie Chart class.

This permits you to customize and pop out individual wedges; supports elliptical and circular pies.

Classes

AbstractPieChart(PlotArea)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

debug Used only for debugging.

fillColor Color of the plot area interior.

height Height of the chart.

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

width Width of the chart.

- **x** X position of the lower-left corner of the chart.
- **y** Y position of the lower-left corner of the chart.

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
background = None
debug = 0
fillColor = None
height = 85
strokeColor = None
strokeWidth = 1
width = 180
x = 20
y = 10
```

LegendedPie(Pie)

Pie with a two part legend (one editable with swatches, one hidden without swatches).

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

bottomPadding Padding at bottom of drawing

checkLabelOverlap If true check and attempt to fix standard label overlaps(default off)

data List of numbers defining wedge sizes; need not sum to 1

debug Used only for debugging.

direction 'clockwise' or 'anticlockwise'

drawLegend If true then create and draw legend

fillColor Color of the plot area interior.

height Height of the chart.

innerRadiusFraction fraction of radii to start wedges at

labels Optional list of labels to use for each data point

leftPadding Padding on left of drawing

legend1 Handle to legend for pie

legendNumberFormat Formatting routine for number on right hand side of legend.

legendNumberOffset Horizontal space between legend and numbers on r/hand side

legend_data Numbers used on r/hand side of legend (or None)

legend_names Names used in legend (or None)

orderMode None

other threshold A value for doing threshholding, not used yet.

pieAndLegend_colors Colours used for both swatches and pie

pointerLabelMode

rightPadding Padding on right of drawing

sameRadii If true make x/y radii the same(default off)

sideLabels If true attempt to make piechart with labels along side and pointers

sideLabelsOffset The fraction of the pie width that the labels are situated at from the edges of the pie

simpleLabels If true(default) use a simple String not an advanced WedgeLabel. A WedgeLabel is customisable using the properties prefixed label_ in the collection slices.

slices Collection of wedge descriptor objects

startAngle Angle of first slice; 0 is due East

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

topPadding Padding at top of drawing

wedgeRecord callable(wedge,*args,**kwds)

width Width of the chart.

x X position of the lower-left corner of the chart.

xradius X direction Radius

y Y position of the lower-left corner of the chart.

yradius Y direction Radius

Example

```
def demo(self, drawing=None):
    if not drawing:
        tx,ty = self._getDrawingDimensions()
        drawing = Drawing(tx, ty)
    drawing.add(self.draw())
    return drawing
```

```
background = None
bottomPadding = 5
checkLabelOverlap = 0
data = [38.4, 20.7, 18.9, 15.4, 6.6]
debug = 0
direction = 'clockwise'
drawLegend = 1
fillColor = None
height = 100
innerRadiusFraction = None
labels = None
leftPadding = 5
legend1.alignment = 'right'
legend1.autoXPadding = 5
legend1.autoYPadding = 2
legend1.boxAnchor = 'nw'
legend1.colEndCallout = None
legendl.colorNamePairs = [(Color(1,0,0,1), 'red'), (Color(0,0,1,1), 'blue'),
                            (Color(0,.501961,0,1), 'green'),
                            (Color(1,.752941,.796078,1), 'pink'),
                            (Color(1,1,0,1), 'yellow'),
                            (PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',alpha=100), 'AAA:'),
                            (PCMYKColor(100,65,0,30,spotName='PANTONE 288 CV',alpha=100), 'AA:'),
                            (PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',density=75,alpha=100), 'A (PCMYKColor(100,65,0,30,spotName='PANTONE 288 CV',density=75,alpha=100),
                              'RRR:')
                            (PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',density=50,alpha=100),
                              'NR:')]
legend1.columnMaximum = 7
legend1.deltax = 5.67
legend1.deltay = 14.17
legend1.dividerColor = Color(0,0,0,1)
legend1.dividerDashArray = None
legend1.dividerLines = 0
legend1.dividerOffsX = (0, 0)
legend1.dividerOffsY = 0
legend1.dividerWidth = 0.5
legend1.dx = 5.67
legendl.dxTextSpace = 11.39
legend1.dy = 5.67
legend1.fillColor = Color(0,0,0,1)
legend1.fontName = 'Helvetica-Bold'
legend1.fontSize = 6
legend1.strokeColor = Color(0,0,0,1)
legend1.strokeWidth = 0.5
legend1.subCols = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04EA9B98>
legendl.swatchMarker = None
legend1.swdx = 0
legend1.swdy = 0
legend1.variColumn = 0
legend1.x = 117
legend1.y = 100
legend1.yGap = 0
legendNumberFormat = '%.1f%%'
```

```
legendNumberOffset = 51
legend_data = [38.4, 20.7, 18.9, 15.4, 6.6]
legend_names = ['AAA:', 'AA:', 'BBB:', 'NR:']
orderMode = 'fixed'
pieAndLegend_colors = [PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',alpha=100),
                                 PCMYKColor(100,65,0,30,spotName='PANTONE 288 CV',alpha=100),
                                 PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',density=75,alpha=100), PCMYKColor(100,65,0,30,spotName='PANTONE 288 CV',density=75,alpha=100), PCMYKColor(11,11,72,0,spotName='PANTONE 458 CV',density=50,alpha=100), PCMYKColor(100,65,0,30,spotName='PANTONE 288 CV',density=50,alpha=100)]
pointerLabelMode = None
rightPadding = 5
sameRadii = False
sideLabels = 0
sideLabelsOffset = 0.1
simpleLabels = 1
slices = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04EA98A0>
startAngle = 90
strokeColor = None
strokeWidth = 1
topPadding = 5
width = 100
x = 0
xradius = None
y = 0
yradius = None
```

Pie(AbstractPieChart)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

checkLabelOverlap If true check and attempt to fix standard label overlaps(default off)

data List of numbers defining wedge sizes; need not sum to 1

debug Used only for debugging.

direction 'clockwise' or 'anticlockwise'

fillColor Color of the plot area interior.

height Height of the chart.

innerRadiusFraction fraction of radii to start wedges at

labels Optional list of labels to use for each data point

orderMode None

other_threshold A value for doing threshholding, not used yet.

pointerLabelMode

sameRadii If true make x/y radii the same(default off)

sideLabels If true attempt to make piechart with labels along side and pointers

sideLabelsOffset The fraction of the pie width that the labels are situated at from the edges of the pie

simpleLabels If true(default) use a simple String not an advanced WedgeLabel. A WedgeLabel is customisable using the properties prefixed label_ in the collection slices.

slices Collection of wedge descriptor objects

startAngle Angle of first slice; 0 is due East

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

wedgeRecord callable(wedge,*args,**kwds)

width Width of the chart.

x X position of the lower-left corner of the chart.

xradius X direction Radius

y Y position of the lower-left corner of the chart.

yradius Y direction Radius

```
def demo(self):
    d = Drawing(200, 100)

    pc = Pie()
    pc.x = 50
    pc.y = 10
    pc.width = 100
    pc.height = 80
    pc.data = [10,20,30,40,50,60]
    pc.labels = ['a','b','c','d','e','f']

    pc.slices.strokeWidth=0.5
    pc.slices[3].popout = 10
```

```
pc.slices[3].strokeWidth = 2
pc.slices[3].strokeDashArray = [2,2]
pc.slices[3].labelRadius = 1.75
pc.slices[3].fontColor = colors.red
pc.slices[0].fillColor = colors.blueviolet
pc.slices[1].fillColor = colors.blueviolet
pc.slices[2].fillColor = colors.blue
pc.slices[3].fillColor = colors.cyan
pc.slices[4].fillColor = colors.aquamarine
pc.slices[5].fillColor = colors.cadetblue
pc.slices[6].fillColor = colors.lightcoral
d.add(pc)
return d
```

```
background = None
checkLabelOverlap = 0
data = [1, 2.3, 1.7, 4.2]
debug = 0
direction = 'clockwise'
fillColor = None
height = 100
innerRadiusFraction = None
labels = None
orderMode = 'fixed'
pointerLabelMode = None
sameRadii = False
sideLabels = 0
sideLabelsOffset = 0.1
simpleLabels = 1
slices = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04EB5698>
startAngle = 90
strokeColor = None
strokeWidth = 1
width = 100
x = 0
xradius = None
y = 0
yradius = None
```

Pie3d(Pie)

Public Attributes

angle_3d The view angle.

background Handle to background object e.g. Rect(0,0,width,height).

checkLabelOverlap If true check and attempt to fix standard label overlaps(default off)

data List of numbers defining wedge sizes; need not sum to 1

debug Used only for debugging.

depth_3d depth of the pie.

direction 'clockwise' or 'anticlockwise'

fillColor Color of the plot area interior.

height Height of the chart.

innerRadiusFraction fraction of radii to start wedges at

labels Optional list of labels to use for each data point

orderMode None

other_threshold A value for doing threshholding, not used yet.

perspective A flattening parameter.

pointerLabelMode

sameRadii If true make x/y radii the same(default off)

sideLabels If true attempt to make piechart with labels along side and pointers

sideLabelsOffset The fraction of the pie width that the labels are situated at from the edges of the pie

simpleLabels If true(default) use a simple String not an advanced WedgeLabel. A WedgeLabel is customisable using the properties prefixed label in the collection slices.

slices Collection of wedge descriptor objects

startAngle Angle of first slice; 0 is due East

strokeColor Color of the plot area border.

strokeWidth Width plot area border.

wedgeRecord callable(wedge,*args,**kwds)

width Width of the chart.

x X position of the lower-left corner of the chart.

xradius X direction Radius

y Y position of the lower-left corner of the chart.

yradius Y direction Radius

```
def demo(self):
    d = Drawing(200, 100)

    pc = Pie()
    pc.x = 50
    pc.y = 10
    pc.width = 100
```

```
pc.height = 80
pc.data = [10,20,30,40,50,60]
pc.labels = ['a','b','c','d','e','f']
pc.slices.strokeWidth=0.5
pc.slices[3].popout = 10
pc.slices[3].strokeWidth = 2
pc.slices[3].strokeDashArray = [2,2]
pc.slices[3].labelRadius = 1.75
pc.slices[3].fontColor = colors.red
pc.slices[0].fillColor = colors.darkcyan
pc.slices[1].fillColor = colors.blueviolet
pc.slices[2].fillColor = colors.blue
pc.slices[3].fillColor = colors.cyan
pc.slices[4].fillColor = colors.aquamarine
pc.slices[5].fillColor = colors.cadetblue
pc.slices[6].fillColor = colors.lightcoral
self.slices[1].visible = 0
self.slices[3].visible = 1
self.slices[4].visible = 1
self.slices[5].visible = 1
self.slices[6].visible = 0
d.add(pc)
return d
```

```
background = None
checkLabelOverlap = 0
data = [12.5, 20.1, 2.0, 22.0, 5.0, 18.0, 13.0]
debug = 0
direction = 'clockwise'
fillColor = None
height = 200
innerRadiusFraction = None
labels = None
orderMode = 'fixed'
pointerLabelMode = None
sameRadii = False
sideLabels = 0
sideLabelsOffset = 0.1
simpleLabels = 1
slices = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04EBC4E0>
startAngle = 90
strokeColor = None
strokeWidth = 1
width = 300
x = 0
xradius = None
y = 0
yradius = None
```

WedgeLabel(Label)

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

у

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""

d = Drawing(200, 100)

# mark the origin of the label
    d.add(Circle(100,90, 5, fillColor=colors.green))
    lab = Label()
```

```
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)
return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0dy = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
\lambda = 0
```

Functions

```
sample0a( ... )
```

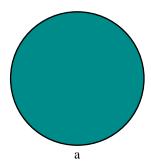
Make a degenerated pie chart with only one slice.

```
def sample0a():
    "Make a degenerated pie chart with only one slice."

d = Drawing(400, 200)

pc = Pie()
pc.x = 150
pc.y = 50
pc.data = [10]
pc.labels = ['a']
pc.slices.strokeWidth=1#0.5

d.add(pc)
return d
```



```
sampleOb( ... )
```

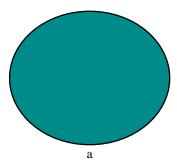
Make a degenerated pie chart with only one slice.

```
def sampleOb():
    "Make a degenerated pie chart with only one slice."

d = Drawing(400, 200)

pc = Pie()
pc.x = 150
pc.y = 50
pc.width = 120
pc.height = 100
pc.data = [10]
pc.labels = ['a']
pc.slices.strokeWidth=1#0.5

d.add(pc)
return d
```



sample1(...)

Make a typical pie chart with with one slice treated in a special way.

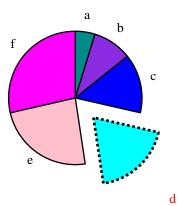
```
def sample1():
    "Make a typical pie chart with with one slice treated in a special way."

    d = Drawing(400, 200)

    pc = Pie()
    pc.x = 150
    pc.y = 50
    pc.data = [10, 20, 30, 40, 50, 60]
    pc.labels = ['a', 'b', 'c', 'd', 'e', 'f']

    pc.slices.strokeWidth=1#0.5
    pc.slices[3].popout = 20
    pc.slices[3].strokeWidth = 2
    pc.slices[3].strokeDashArray = [2,2]
    pc.slices[3].labelRadius = 1.75
    pc.slices[3].fontColor = colors.red

    d.add(pc)
    return d
```



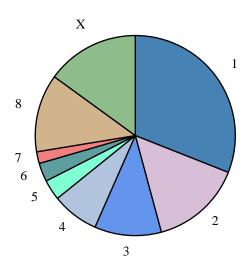
sample2(...)

Make a pie chart with nine slices.

```
def sample2():
     "Make a pie chart with nine slices."
    d = Drawing(400, 200)
    pc = Pie()
    pc.x = 125
    pc.y = 25
    pc.data = [0.31, 0.148, 0.108,
    0.076, 0.033, 0.03,

0.019, 0.126, 0.15]

pc.labels = ['1', '2', '3', '4', '5', '6', '7', '8', 'X']
    pc.width = 150
    pc.height = 150
    pc.slices.strokeWidth=1#0.5
    pc.slices[0].fillColor = colors.steelblue
pc.slices[1].fillColor = colors.thistle
    pc.slices[2].fillColor = colors.cornflower
    pc.slices[3].fillColor = colors.lightsteelblue
    pc.slices[4].fillColor = colors.aquamarine
    pc.slices[5].fillColor = colors.cadetblue
    pc.slices[6].fillColor = colors.lightcoral
    pc.slices[7].fillColor = colors.tan
    pc.slices[8].fillColor = colors.darkseagreen
    d.add(pc)
    return d
```



sample3(...)

Make a pie chart with a very slim slice.

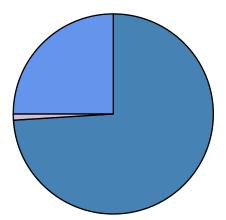
```
def sample3():
    "Make a pie chart with a very slim slice."

    d = Drawing(400, 200)

    pc = Pie()
    pc.x = 125
    pc.y = 25

    pc.data = [74, 1, 25]

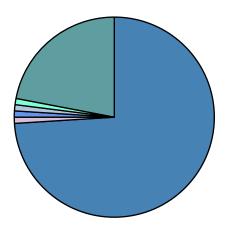
    pc.width = 150
    pc.height = 150
    pc.slices.strokeWidth=1#0.5
    pc.slices[0].fillColor = colors.steelblue    pc.slices[1].fillColor = colors.thistle    pc.slices[2].fillColor = colors.cornflower
    d.add(pc)
    return d
```



sample4(...)

Make a pie chart with several very slim slices.

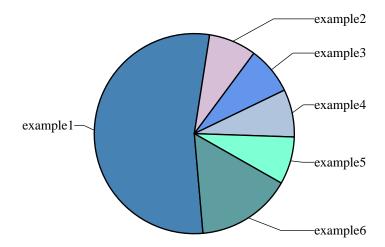
```
def sample4():
     "Make a pie chart with several very slim slices."
    d = Drawing(400, 200)
    pc = Pie()
    pc.x = 125
    pc.y = 25
    pc.data = [74, 1, 1, 1, 1, 22]
    pc.width = 150
    pc.height = 150
    pc.slices.strokeWidth=1#0.5
    pc.slices[0].fillColor = colors.steelblue
    pc.slices[1].fillColor = colors.thistle
pc.slices[2].fillColor = colors.cornflower
    pc.slices[3].fillColor = colors.lightsteelblue
pc.slices[4].fillColor = colors.aquamarine
    pc.slices[5].fillColor = colors.cadetblue
    d.add(pc)
    return d
```



sample5(...)

Make a pie with side labels.

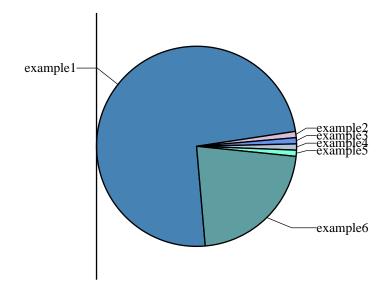
```
def sample5():
    "Make a pie with side labels."
    d = Drawing(400, 200)
    pc = Pie()
    pc.x = 125
    pc.y = 25
    pc.data = [7, 1, 1, 1, 1, 2]
pc.labels = ['example1', 'example2', 'example3', 'example4', 'example5', 'example6']
    pc.sideLabels = 1
    pc.width = 150
    pc.height = 150
    pc.slices.strokeWidth=1#0.5
    pc.slices[0].fillColor = colors.steelblue
    pc.slices[1].fillColor = colors.thistle
    pc.slices[2].fillColor = colors.cornflower
    pc.slices[3].fillColor = colors.lightsteelblue
    pc.slices[4].fillColor = colors.aquamarine
    pc.slices[5].fillColor = colors.cadetblue
    d.add(pc)
    return d
```



sample6(...)

Illustrates the pie moving to leave space for the left labels

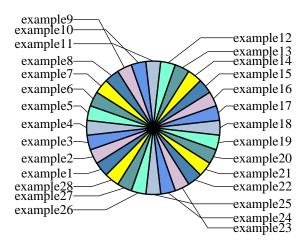
```
def sample6():
    "Illustrates the pie moving to leave space for the left labels"
    d = Drawing(400, 200)
    pc = Pie()
    "The x value of the pie chart is 0"
    pc.x = 0
    pc.y = 25
    pc.data = [74, 1, 1, 1, 1, 22]
pc.labels = ['example1', 'example2', 'example3', 'example4', 'example5', 'example6']
    pc.sideLabels = 1
    pc.width = 150
    pc.height = 150
    pc.slices.strokeWidth=1#0.5
    pc.slices[0].fillColor = colors.steelblue
    pc.slices[1].fillColor = colors.thistle
    pc.slices[2].fillColor = colors.cornflower
    pc.slices[3].fillColor = colors.lightsteelblue
    pc.slices[4].fillColor = colors.aquamarine
    pc.slices[5].fillColor = colors.cadetblue
    l = Line(0,0,0,200)
    d.add(pc)
    d.add(1)
    return d
```



sample7(...)

Case with overlapping pointers

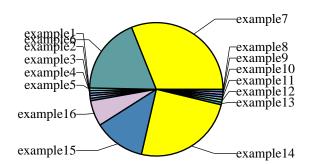
```
def sample7():
   "Case with overlapping pointers"
   d = Drawing(400, 200)
   pc = Pie()
   pc.y = 50
   pc.x = 150
   pc.width = 100
   pc.height = 100
   pc.sideLabels = 1
   pc.checkLabelOverlap = 1
   pc.simpleLabels = 0
   pc.slices.strokeWidth=1#0.5
   pc.slices[0].fillColor = colors.steelblue
   pc.slices[1].fillColor = colors.thistle
   pc.slices[2].fillColor = colors.cornflower
   pc.slices[3].fillColor = colors.lightsteelblue
   pc.slices[4].fillColor = colors.aquamarine
   pc.slices[5].fillColor = colors.cadetblue
   d.add(pc)
   return d
```



sample8(...)

Case with overlapping labels

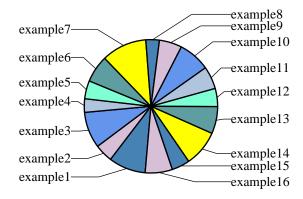
```
def sample8():
   "Case with overlapping labels"
"Labels overlap if they do not belong to adjacent pie slices due to nature of checkLabelOverlap"
   d = Drawing(400, 200)
   pc = Pie()
   pc.y = 50
   pc.x = 150
   pc.width = 100
   pc.height = 100
   pc.sideLabels = 1
   pc.checkLabelOverlap = 1
   pc.slices.strokeWidth=1#0.5
   pc.slices[0].fillColor = colors.steelblue
   pc.slices[1].fillColor = colors.thistle
   pc.slices[2].fillColor = colors.cornflower
   pc.slices[3].fillColor = colors.lightsteelblue
   pc.slices[4].fillColor = colors.aquamarine
   pc.slices[5].fillColor = colors.cadetblue
   d.add(pc)
   return d
```



sample9(...)

Case with overlapping labels

```
def sample9():
   "Case with overlapping labels"
"Labels overlap if they do not belong to adjacent pies due to nature of checkLabelOverlap"
   d = Drawing(400, 200)
   pc = Pie()
   pc.x = 125
   pc.y = 50
   pc.sideLabels = 1
   pc.checkLabelOverlap = 1
   pc.width = 100
   pc.height = 100
   pc.slices.strokeWidth=1#0.5
   pc.slices[0].fillColor = colors.steelblue
   pc.slices[1].fillColor = colors.thistle
   pc.slices[2].fillColor = colors.cornflower
   pc.slices[3].fillColor = colors.lightsteelblue
   pc.slices[4].fillColor = colors.aquamarine
   pc.slices[5].fillColor = colors.cadetblue
   d.add(pc)
   return d
```



slidebox

Classes

SlideBox(Widget)

Returns a slidebox widget

Public Attributes

background Colour of the background to the drawing (if any)

bottomPadding Padding at bottom of drawing

boxHeight Height of the boxes

boxOutlineColor Colour used to outline the boxes (if any)

boxOutlineWidth Width of the box outline (if any)

boxSpacing Space between the boxes

boxWidth Width of the boxes

endColor Color of last box

labelFillColor Colour for number insides

labelFontName Name of font used for the labels

labelFontSize Size of font used for the labels

labelStrokeColor Colour for for number outlines

leftPadding Padding on left of drawing

numberOfBoxes How many boxes there are

rightPadding Padding on right of drawing

sourceLabelFillColor Colour ink for the 'source' label (bottom right)

sourceLabelFontName Name of font used for the 'source' label

sourceLabelFontSize Font size for the 'source' label

sourceLabelOffset Padding at bottom of drawing

sourceLabelText Text used for the 'source' label (can be empty)

startColor Color of first box

topPadding Padding at top of drawing

triangleFillColor Colour of indicator triangles

triangleHeight Height of indicator triangles

trianglePosition Which box is highlighted by the triangles

triangleStrokeColor Colour of indicator triangle outline

triangleStrokeWidth Colour of indicator triangle outline

triangleWidth Width of indicator triangles

Example

def demo(self,drawing=None):

```
from reportlab.lib import colors
if not drawing:
    tx,ty=self._getDrawingDimensions()
    drawing = Drawing(tx,ty)
drawing.add(self.draw())
return drawing
```



Source: ReportLab

```
background = None
bottomPadding = 5
boxHeight = 15.590551181102363
boxOutlineColor = Color(0,0,0,1)
boxOutlineWidth = 0.58
boxSpacing = 2.1259842519685037
boxWidth = 20.69291338582677
endColor = Color(.098039,.301961,.529412,1)
labelFillColor = Color(1,1,1,1)
labelFontName = 'Helvetica-Bold'
labelFontSize = 10
labelStrokeColor = Color(0,0,0,1)
leftPadding = 5
numberOfBoxes = 7
rightPadding = 5
sourceLabelFillColor = Color(0,0,0,1)
sourceLabelFontName = 'Helvetica-Oblique'
sourceLabelFontSize = 6
sourceLabelOffset = 5.669291338582678
sourceLabelText = 'Source: ReportLab'
startColor = Color(.909804,.878431,.466667,1)
topPadding = 5
triangleFillColor = Color(1,1,1,1)
triangleHeight = 3.401574803149606
trianglePosition = 7
triangleStrokeColor = Color(0,0,0,1)
triangleStrokeWidth = 0.58
triangleWidth = 10.771653543307087
```

spider

Spider Chart

Normal use shows variation of 5-10 parameters against some 'norm' or target. When there is more than one series, place the series with the largest numbers first, as it will be overdrawn by each successive one.

Classes

SpiderChart(PlotArea)

Public Attributes

background Handle to background object e.g. Rect(0,0,width,height).

data Data to be plotted, list of (lists of) numbers.

debug Used only for debugging.

direction 'clockwise' or 'anticlockwise'

fillColor Color of the plot area interior.

height Height of the chart.

labels optional list of labels to use for each data point

spokeLabels collection of spoke label descriptor objects

spokes collection of spoke descriptor objects

startAngle angle of first slice; like the compass, 0 is due North

strandLabels collection of strand label descriptor objects

strands collection of strand descriptor objects

strokeColor Color of the plot area border.

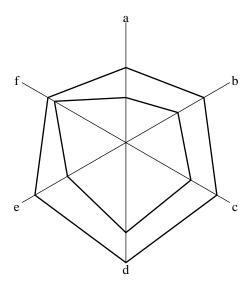
strokeWidth Width plot area border.

width Width of the chart.

x X position of the lower-left corner of the chart.

y Y position of the lower-left corner of the chart.

```
def demo(self):
    d = Drawing(200, 200)
    d.add(SpiderChart())
    return d
```



```
background = None
data = [[10, 12, 14, 16, 14, 12], [6, 8, 10, 12, 9, 11]]
debug = 0
direction = 'clockwise'
fillColor = None
height = 180
labels = ['a', 'b', 'c', 'd', 'e', 'f']
spokeLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04F88A58>
spokes = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04F88A08>
startAngle = 90
strandLabels = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04F88AA8>
strands = <reportlab.graphics.widgetbase.TypedPropertyCollection instance at 0x04F88AA8>
strokeColor = None
strokeWidth = 1
width = 180
x = 10
y = 10
```

SpokeLabel(WedgeLabel)

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

у

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""

d = Drawing(200, 100)

# mark the origin of the label
    d.add(Circle(100,90, 5, fillColor=colors.green))
lab = Label()
```

```
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)
return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
\lambda = 0
```

StrandLabel(SpokeLabel)

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dR radial shift for label

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

format Format for the label

height the height of the text

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

У

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""

d = Drawing(200, 100)
```

```
# mark the origin of the label
d.add(Circle(100,90, 5, fillColor=colors.green))

lab = Label()
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)

return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dR = 0
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
format = ''
height = None
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0

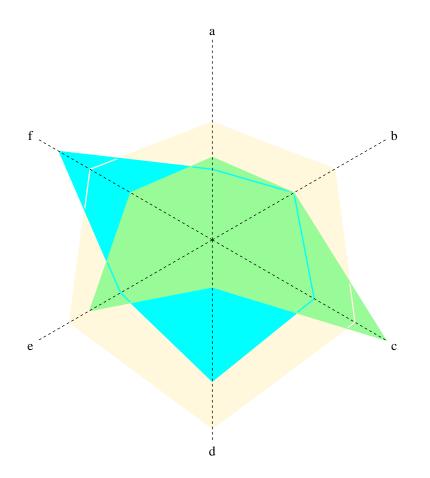
y = 0
```

Functions

```
sample1( ... )
```

Make a simple spider chart

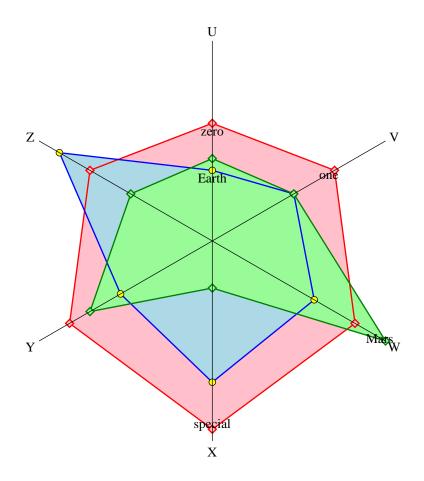
```
def sample1():
    "Make a simple spider chart"
    d = Drawing(400, 400)
    sp = SpiderChart()
    sp.x = 50
    sp.y = 50
    sp.width = 300
    sp.height = 300
    sp.data = [[10,12,14,16,14,12], [6,8,10,12,9,15],[7,8,17,4,12,8]]
    sp.labels = ['a','b','c','d','e','f']
    sp.strands[0].strokeColor = colors.cornsilk
    sp.strands[1].strokeColor = colors.cyan
    sp.strands[2].strokeColor = colors.palegreen
    sp.strands[0].fillColor = colors.cyan
    sp.strands[1].fillColor = colors.cyan
    sp.strands[2].fillColor = colors.cyan
    sp.strands[2].fillColor = colors.cyan
    sp.strands[2].fillColor = colors.cyan
    sp.strands[2].fillColor = colors.palegreen
    sp.spokes.strokeDashArray = (2,2)
    d.add(sp)
    return d
```



sample2(...)

Make a spider chart with markers, but no fill

```
def sample2():
    "Make a spider chart with markers, but no fill"
    d = Drawing(400, 400)
    sp = SpiderChart()
    sp.x = 50
    sp.y = 50
    sp.width = 300
    sp.height = 300
    sp.data = [[10,12,14,16,14,12], [6,8,10,12,9,15],[7,8,17,4,12,8]]
    sp.labels = ['U','V','W','X','Y','Z']
    sp.strands.strokeWidth = 1
    sp.strands[0].fillColor = colors.pink
    sp.strands[1].fillColor = colors.lightblue
    sp.strands[2].fillColor = colors.palegreen
    sp.strands[0].strokeColor = colors.red
    sp.strands[1].strokeColor = colors.blue
    sp.strands[2].strokeColor = colors.green
    sp.strands.symbol = "FilledDiamond"
sp.strands[1].symbol = makeMarker("Circle")
    sp.strands[1].symbol.strokeWidth = 0.5
    sp.strands[1].symbol.fillColor = colors.yellow
    sp.strands.symbolSize = 6
    sp.strandLabels[0,3]._text = 'special'
    sp.strandLabels[0,1]._text = 'one'
    sp.strandLabels[0,0]._text = 'zero'
sp.strandLabels[1,0]._text = 'Earth'
    sp.strandLabels[2,2]._text = 'Mars'
    sp.strandLabels.format = 'values'
    sp.strandLabels.dR = -5
    d.add(sp)
    return d
```



textlabels

#Copyright ReportLab Europe Ltd. 2000-2012
#see license.txt for license details
#history http://www.reportlab.co.uk/cgi-bin/viewcvs.cgi/public/reportlab/trunk/reportlab/graphics/charts/textlabels.py

Classes

BarChartLabel(PMVLabel)

An extended Label allowing for nudging, lines visibility etc

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fixedEnd None or fixed draw ends +/-

fixedStart None or fixed draw starts +/-

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

lineStrokeColor Color for a drawn line

lineStrokeWidth Non-zero for a drawn line

maxWidth maximum width the label can grow to

nudge Non-zero sign dependent nudge

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

у

Example

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""
    d = Drawing(200, 100)
    # mark the origin of the label
    d.add(Circle(100,90, 5, fillColor=colors.green))
    lab = Label()
    lab.setOrigin(100,90)
    lab.boxAnchor = 'ne'
    lab.angle = 45
    lab.dx = 0
    lab.dy = -20
    lab.boxStrokeColor = colors.green
    lab.setText('Another\nMulti-Line\nString')
    d.add(lab)
    return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fixedEnd = None
fixedStart = None
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
lineStrokeColor = None
lineStrokeWidth = 0
maxWidth = None
nudge = 0
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
y = 0
```

Label(Widget)

A text label to attach to something else, such as a chart axis.

This allows you to specify an offset, angle and many anchor properties relative to the label's origin. It allows, for example, angled multiline axis labels.

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal','anti','lo','hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

у

Example

def demo(self):

```
"""This shows a label positioned with its top right corner
at the top centre of the drawing, and rotated 45 degrees."""

d = Drawing(200, 100)

# mark the origin of the label
d.add(Circle(100,90, 5, fillColor=colors.green))

lab = Label()
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)

return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
y = 0
```

NA_Label(BarChartLabel)

An extended Label allowing for nudging, lines visibility etc

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fixedEnd None or fixed draw ends +/-

fixedStart None or fixed draw starts +/-

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

lineStrokeColor Color for a drawn line

lineStrokeWidth Non-zero for a drawn line

maxWidth maximum width the label can grow to

nudge Non-zero sign dependent nudge

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text Text to be used for N/A values

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

x

у

Example

```
def demo(self):
    """This shows a label positioned with its top right corner
   at the top centre of the drawing, and rotated 45 degrees."""
   d = Drawing(200, 100)
    # mark the origin of the label
   d.add(Circle(100,90, 5, fillColor=colors.green))
    lab = Label()
    lab.setOrigin(100,90)
    lab.boxAnchor = 'ne'
    lab.angle = 45
    lab.dx = 0
    lab.dy = -20
   lab.boxStrokeColor = colors.green
    lab.setText('Another\nMulti-Line\nString')
   d.add(lab)
   return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
fillColor = Color(0,0,0,1)
fixedEnd = None
fixedStart = None
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
lineStrokeColor = None
lineStrokeWidth = 0
maxWidth = None
nudge = 0
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
text = 'n/a'
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
\lambda = 0
```

PMVLabel(Label)

Public Attributes

angle angle of label: default (0), 90 is vertical, 180 is upside down, etc

bottomPadding padding at bottom of box

boxAnchor anchoring point of the label

boxFillColor the filling color of the box

boxStrokeColor border color of the box

boxStrokeWidth border width

boxTarget one of ('normal', 'anti', 'lo', 'hi')

customDrawChanger An instance of CustomDrawChanger to modify the behavior at draw time

dx delta x - offset

dy delta y - offset

fillColor label text color

fontName the name of the font used

fontSize the size of the font

height the height of the text

leading

leftPadding padding at left of box

maxWidth maximum width the label can grow to

rightPadding padding at right of box

strokeColor label text border color

strokeWidth label text border width

text the actual text to display

textAnchor the anchoring point of the text inside the label

topPadding padding at top of box

useAscentDescent If True then the font's Ascent Descent will be used to compute default heights and baseline.

visible True if the label is to be drawn

width the width of the label

X

у

```
def demo(self):
    """This shows a label positioned with its top right corner
    at the top centre of the drawing, and rotated 45 degrees."""

d = Drawing(200, 100)

# mark the origin of the label
    d.add(Circle(100,90, 5, fillColor=colors.green))
lab = Label()
```

```
lab.setOrigin(100,90)
lab.boxAnchor = 'ne'
lab.angle = 45
lab.dx = 0
lab.dy = -20
lab.boxStrokeColor = colors.green
lab.setText('Another\nMulti-Line\nString')
d.add(lab)
return d
```

```
angle = 0
bottomPadding = 0
boxAnchor = 'c'
boxFillColor = None
boxStrokeColor = None
boxStrokeWidth = 0.5
boxTarget = 'normal'
dx = 0
dy = 0
ay = 0
fillColor = Color(0,0,0,1)
fontName = 'Times-Roman'
fontSize = 10
height = None
leading = None
leftPadding = 0
maxWidth = None
rightPadding = 0
strokeColor = None
strokeWidth = 0.1
textAnchor = 'start'
topPadding = 0
useAscentDescent = False
visible = 1
width = None
x = 0
\lambda = 0
```

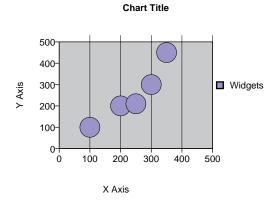
bubble

#Autogenerated by ReportLab guiedit do not edit

Classes

Bubble(_DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,ScatterPlot(),name='chart',validate=None,desc="The main chart")
self.chart.width
                   = 115
self.chart.height
                     = 80
self.chart.x = 30
self.chart.y = 40
self.chart.y
self.chart.lines[0].strokeColor = color01
self.chart.lines[1].strokeColor = color02
self.chart.lines[2].strokeColor = color03
self.chart.lines[3].strokeColor = color04
self.chart.lines[4].strokeColor = color05
self.chart.lines[5].strokeColor = color06
self.chart.lines[6].strokeColor = color07
self.chart.lines[7].strokeColor = color08
self.chart.lines[8].strokeColor = color09
self.chart.lines[9].strokeColor = color10
self.chart.lines.symbol.kind = 'Circle'
self.chart.lines.symbol.size = 15
self.chart.lines.symbol.size
self.chart.fillColor
                           = backgroundGrey
self.chart.lineLabels.fontName
                                            = 'Helvetica'
self.chart.xValueAxis.labels.fontName
                                            = 'Helvetica'
self.chart.xValueAxis.labels.fontSize
                                            = 0
self.chart.xValueAxis.forceZero
                           = [((100,100), (200,200), (250,210), (300,300), (350,450))]
self.chart.data
self.chart.xValueAxis.avoidBoundFrac
                                              = 1
self.chart.xValueAxis.gridEnd
                                               = 115
self.chart.xValueAxis.tickDown
                                               = 3
                                               = 1
self.chart.xValueAxis.visibleGrid
self.chart.yValueAxis.tickLeft
                                            = 3
                                           = 'Helvetica'
self.chart.yValueAxis.labels.fontName
self.chart.yValueAxis.labels.fontSize
                                           = 7
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName = 'Helvetica-Bold'
self.Title.fontSize = 7
self.Title.x
                     = 100
self.Title.y
                    = 135
self.Title._text
                     = 'Chart Title'
self.Title.maxWidth = 180
                     = 20
self.Title.height
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets')]
self.Legend.fontName = 'Helvetica'
self.Legend.fontSize
                          = 153
self.Legend.x
self.Legend.y
                          = 85
self.Legend.dxTextSpace
self.Legend.dy
self.Legend.dx
self.Legend.deltay
self.Legend.alignment = 'right'
self.chart.lineLabelFormat = None
self.chart.xLabel
                           = 'X Axis'
self.chart.y
                           = 30
self.chart.yLabel
                           = 'Y Axis'
self.chart.yValueAxis.labelTextFormat
                                          = '%d'
self.chart.yValueAxis.forceZero
                                          = 1
self.chart.xValueAxis.forceZero
self._add(self,0,name='preview',validate=None,desc=None)
```



clustered_bar

#Autogenerated by ReportLab guiedit do not edit

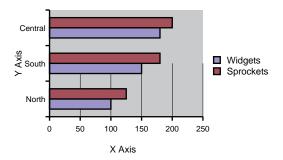
Classes

ClusteredBar(DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,HorizontalBarChart(),name='chart',validate=None,desc="The main chart")
self.chart.width
                     = 115
self.chart.height
self.chart.x
self.chart.y
                      = 40
self.chart.bars[0].fillColor = color01
self.chart.bars[1].fillColor = color02
self.chart.bars[2].fillColor = color03
self.chart.bars[3].fillColor = color04
self.chart.bars[4].fillColor = color05
self.chart.bars[5].fillColor = color06
self.chart.bars[6].fillColor = color07
self.chart.bars[7].fillColor = color08
self.chart.bars[8].fillColor = color09
self.chart.bars[9].fillColor = color10
self.chart.fillColor
                             = backgroundGrey
                                           = 'Helvetica'
self.chart.barLabels.fontName
self.chart.valueAxis.labels.fontName
                                           = 'Helvetica'
self.chart.valueAxis.labels.fontSize
                                           = 6
                                           = 1
self.chart.valueAxis.forceZero
self.chart.data
                            = [(100, 150, 180), (125, 180, 200)]
self.chart.groupSpacing
                            = 15
self.chart.valueAxis.avoidBoundFrac
                                              = 1
self.chart.valueAxis.gridEnd
                                              = 80
self.chart.valueAxis.tickDown
                                              = 3
self.chart.valueAxis.visibleGrid
                                                ['North', 'South', 'Central']
self.chart.categoryAxis.categoryNames
self.chart.categoryAxis.tickLeft
                                              = 3
                                              = 'Helvetica'
self.chart.categoryAxis.labels.fontName
self.chart.categoryAxis.labels.fontSize
                                              = 6
self.chart.categoryAxis.labels.dx
                                              = -3
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName
                     = 'Helvetica-Bold'
self.Title.fontSize
self.Title.x
                      = 100
self.Title.y
                      = 135
                      = 'Chart Title'
self.Title._text
self.Title.maxWidth
                     = 180
self.Title.height
                      = 20
self.Title.textAnchor ='middle'
```

```
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
                             = 'Helvetica'
self.Legend.fontName
                             = 7
self.Legend.fontSize
self.Legend.x
                             = 153
                             = 85
self.Legend.y
self.Legend.dxTextSpace
                             = 5
self.Legend.dy
                               5
                             =
self.Legend.dx
                             =
                               5
self.Legend.deltay
                             = 5
                             ='right'
self.Legend.alignment
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
self.XLabel.fontName
                            = 'Helvetica'
self.XLabel.fontSize
self.XLabel.x
                             = 85
self.XLabel.y
                             = 10
                             ='middle'
self.XLabel.textAnchor
self.XLabel.maxWidth
                             = 100
self.XLabel.height
                             = 20
self.XLabel._text
                             = "X Axis"
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
self.YLabel.fontName
                            = 'Helvetica'
                             = 7
self.YLabel.fontSize
self.YLabel.x
                             = 12
self.YLabel.y
                             = 80
self.YLabel.angle
                             = 90
self.YLabel.textAnchor
                             ='middle'
self.YLabel.maxWidth
                             = 100
self.YLabel.height
                             = 20
                             = "Y Axis"
self.YLabel. text
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



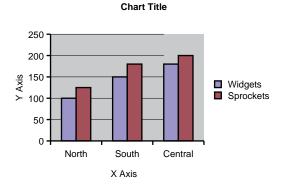
clustered column

#Autogenerated by ReportLab guiedit do not edit

Classes

ClusteredColumn(_DrawingEditorMixin, Drawing)

```
self.chart.bars[2].fillColor = color03
self.chart.bars[3].fillColor = color04
self.chart.bars[4].fillColor = color05
self.chart.bars[5].fillColor = color06
self.chart.bars[6].fillColor = color07
self.chart.bars[7].fillColor = color08
self.chart.bars[8].fillColor = color09
self.chart.bars[9].fillColor = color10
self.chart.fillColor
                          = backgroundGrey
self.chart.barLabels.fontName
                                          = 'Helvetica'
                                          = 'Helvetica'
self.chart.valueAxis.labels.fontName
self.chart.valueAxis.labels.fontSize
                                          = 7
self.chart.valueAxis.forceZero
                                          = 1
                     = [(100, 150, 180), (125, 180, 200)]
self.chart.data
self.chart.groupSpacing
                           = 15
self.chart.valueAxis.avoidBoundFrac
                                             = 1
self.chart.valueAxis.gridEnd
                                             = 115
self.chart.valueAxis.tickLeft
                                            = 3
self.chart.valueAxis.visibleGrid
                                            = 1
                                            = ['North', 'South', 'Central']
self.chart.categoryAxis.categoryNames
self.chart.categoryAxis.tickDown
                                            = 'Helvetica'
self.chart.categoryAxis.labels.fontName
                                            = 7
self.chart.categoryAxis.labels.fontSize
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName = 'Helvetica-Bold'
self.Title.fontSize = 7
self.Title.x
                     = 100
self.Title.y
                    = 135
self.Title._text
                    = 'Chart Title'
self.Title.maxWidth = 180
                   = 20
self.Title.height
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName = 'Helvetica'
self.Legend.fontSize
                          = 7
                          = 153
self.Legend.x
self.Legend.y
                          = 85
self.Legend.dxTextSpace
                          = 5
self.Legend.dy
                          = 5
self.Legend.dx
                          = 5
self.Legend.deltay
                          = 5
self.Legend.alignment
                         ='right'
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
self.XLabel.fontName = 'Helvetica'
                          = 7
self.XLabel.fontSize
self.XLabel.x
                          = 85
self.XLabel.y
                          = 10
self.XLabel.textAnchor
                         ='middle
self.XLabel.maxWidth
                          = 100
self.XLabel.height
                         = 20
= "X Axis"
self.XLabel. text
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
self.YLabel.fontName = 'Helvetica'
self.YLabel.fontSize
                          = 7
self.YLabel.x
                         = 12
self.YLabel.y
                          = 80
self.YLabel.angle
self.YLabel.textAnchor
                          ='middle
self.YLabel.maxWidth
                          = 100
                        = 20
= "Y Axis"
self.YLabel.height
self.YLabel. text
self._add(self,0,name='preview',validate=None,desc=None)
```



exploded_pie

#Autogenerated by ReportLab guiedit do not edit

Classes

ExplodedPie(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
    Drawing.__init__(self,width,height,*args,**kw)
    self._add(self,Pie(),name='chart',validate=None,desc="The main chart")
                          = 100
    self.chart.width
    self.chart.height
                          = 100
    self.chart.x
                          = 25
    self.chart.y
                          = 25
    self.chart.slices[0].fillColor = color01
    self.chart.slices[1].fillColor = color02
    self.chart.slices[2].fillColor = color03
    self.chart.slices[3].fillColor = color04
    self.chart.slices[4].fillColor = color05
    self.chart.slices[5].fillColor = color06
    self.chart.slices[6].fillColor = color07
    self.chart.slices[7].fillColor = color08
    self.chart.slices[8].fillColor = color09
    self.chart.slices[9].fillColor = color10
    self.chart.data
                                   = (100, 150, 180)
    self.chart.startAngle
                                   = -90
    self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
    self.Title.fontName
                          = 'Helvetica-Bold'
    self.Title.fontSize
                         = 7
                          = 100
    self.Title.x
   self.Title.y
                          = 135
                          = 'Chart Title'
    self.Title._text
                         = 180
    self.Title.maxWidth
    self.Title.height
                          = 20
    self.Title.textAnchor ='middle'
    self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
    self.Legend.colorNamePairs = [(color01, 'North'), (color02, 'South'), (color03, 'Central')]
    self.Legend.fontName
                                 'Helvetica'
    self.Legend.fontSize
                               = 7
                               = 160
    self.Legend.x
    self.Legend.y
                               = 85
    self.Legend.dxTextSpace
    self.Legend.dy
    self.Legend.dx
    self.Legend.deltay
    self.Legend.alignment
                               ='right
    self.Legend.columnMaximum = 10
    self.chart.slices.strokeWidth = 1
    self.chart.slices.fontName
                                   = 'Helvetica'
    self.background
                                   = ShadedRect()
```

```
self.background.fillColorStart = backgroundGrev
self.background.fillColorEnd
                             = backgroundGrey
self.background.numShades
                               = 1
self.background.strokeWidth
                              = 0.5
self.background.x
                               = 20
self.background.y
self.chart.slices.popout
                              = 5
self.background.height
                              = 110
self.background.width
                               = 110
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title North South Central

filled radar

#Autogenerated by ReportLab guiedit do not edit

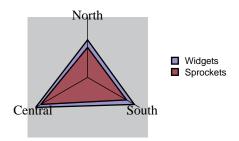
Classes

FilledRadarChart(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
    Drawing.__init__(self,width,height,*args,**kw)
    self._add(self,SpiderChart(),name='chart',validate=None,desc="The main chart")
    self.chart.width
                        = 90
    self.chart.height
                          = 90
    self.chart.x
                         = 45
    self.chart.y
                          = 25
    self.chart.strands[0].fillColor = color01
    self.chart.strands[1].fillColor = color02
    self.chart.strands[2].fillColor = color03
    self.chart.strands[3].fillColor = color04
    self.chart.strands[4].fillColor = color05
    self.chart.strands[5].fillColor = color06
    self.chart.strands[6].fillColor = color07
    self.chart.strands[7].fillColor
                                     = color08
    self.chart.strands[8].fillColor = color09
    self.chart.strands[9].fillColor = color10
    self.chart.strandLabels.fontName = 'Helvetica'
    self.chart.strandLabels.fontSize = 6
    self.chart.fillColor
                                     = backgroundGrey
                                     = [(125, 180, 200), (100, 150, 180)]
= ['North', 'South', 'Central']
    self.chart.data
    self.chart.labels
    self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
    self.Title.fontName = 'Helvetica-Bold'
    self.Title.fontSize = 7
                          = 100
    self.Title.x
    self.Title.y
                         = 135
                          = 'Chart Title'
    self.Title._text
    self.Title.maxWidth = 180
    self.Title.height
                          = 20
```

```
self.Title.textAnchor = 'middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName
                           = 'Helvetica'
self.Legend.fontSize
                            = 7
                            = 153
self.Legend.x
self.Legend.y
                           = 85
\verb|self.Legend.\bar{d}xTextSpace|
                              5
self.Legend.dy
self.Legend.dx
self.Legend.deltay
self.Legend.alignment
                           ='right'
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



linechart_with_markers

#Autogenerated by ReportLab guiedit do not edit

Classes

LineChartWithMarkers(_DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,LinePlot(),name='chart',validate=None,desc="The main chart")
self.chart.width
                     = 115
                      = 80
self.chart.height
self.chart.x
                      = 30
self.chart.y
                      = 40
self.chart.lines[0].strokeColor = color01
self.chart.lines[1].strokeColor = color02
self.chart.lines[2].strokeColor = color03
self.chart.lines[3].strokeColor = color04
self.chart.lines[4].strokeColor = color05
self.chart.lines[5].strokeColor = color06
self.chart.lines[6].strokeColor = color07
self.chart.lines[7].strokeColor = color08
self.chart.lines[8].strokeColor = color09
self.chart.lines[9].strokeColor = color10
self.chart.lines[0].symbol = makeMarker('FilledSquare')
self.chart.lines[1].symbol = makeMarker('FilledDiamond')
self.chart.lines[2].symbol = makeMarker('FilledStarFive')
self.chart.lines[3].symbol = makeMarker('FilledTriangle')
self.chart.lines[4].symbol = makeMarker('FilledCircle')
self.chart.lines[5].symbol = makeMarker('FilledPentagon')
self.chart.lines[6].symbol = makeMarker('FilledStarSix')
self.chart.lines[7].symbol = makeMarker('FilledHeptagon')
```

```
self.chart.lines[8].symbol = makeMarker('FilledOctagon')
self.chart.lines[9].symbol = makeMarker('FilledCross')
                           = backgroundGrey
self.chart.fillColor
self.chart.lineLabels.fontName
                                             = 'Helvetica'
self.chart.xValueAxis.labels.fontName
                                             = 'Helvetica'
self.chart.xValueAxis.labels.fontSize
                                             = 7
                                             = 0
self.chart.xValueAxis.forceZero
                            = [((0, 50), (100, 100), (200, 200), (250, 210), (300, 300), (400, 500)]
self.chart.data
self.chart.xValueAxis.avoidBoundFrac
                                               = 1
self.chart.xValueAxis.gridEnd
                                                = 115
self.chart.xValueAxis.tickDown
                                                = 3
self.chart.xValueAxis.visibleGrid
                                               = 1
self.chart.yValueAxis.tickLeft
                                             = 3
self.chart.yValueAxis.labels.fontName
                                             = 'Helvetica'
self.chart.yValueAxis.labels.fontSize
                                            = 7
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
                     = 'Helvetica-Bold'
self.Title.fontName
                     = 7
self.Title.fontSize
self.Title.x
                      = 100
self.Title.y
                      = 135
self.Title._text
                      = 'Chart Title'
                     = 180
self.Title.maxWidth
self.Title.height
                      = 20
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName
                           = 'Helvetica'
                           = 7
self.Legend.fontSize
self.Legend.x
                           = 153
self.Legend.y
                           = 85
self.Legend.dxTextSpace
                           =
                             5
self.Legend.dy
                           =
                             5
self.Legend.dx
                           = 5
                           = 5
self.Legend.deltay
self.Legend.alignment
                           ='right'
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
                        = 'Helvetica'
self.XLabel.fontName
                           = 7
self.XLabel.fontSize
self.XLabel.x
                           = 85
self.XLabel.y
                           = 10
self.XLabel.textAnchor
                           ='middle'
self.XLabel.maxWidth
                           = 100
self.XLabel.height
                           = 20
self.XLabel._text
                           = "X Axis"
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
                          = 'Helvetica'
self.YLabel.fontName
self.YLabel.fontSize
                           = 7
self.YLabel.x
                           = 12
                           = 80
self.YLabel.y
self.YLabel.angle
                           = 90
self.YLabel.textAnchor
                           ='middle'
self.YLabel.maxWidth
                           = 100
                           = 2.0
self.YLabel.height
                           = "Y Axis"
self.YLabel._text
self.chart.yValueAxis.forceZero
                                          = 1
self.chart.xValueAxis.forceZero
self._add(self,0,name='preview',validate=None,desc=None)
```

600 500 400 200 100 100

300

500

Chart Title

0

100

200

X Axis

line_chart

#Autogenerated by ReportLab guiedit do not edit

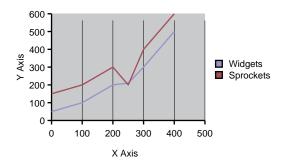
Classes

LineChart(_DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,LinePlot(),name='chart',validate=None,desc="The main chart")
self.chart.width
                     = 115
self.chart.height
                     = 80
                     = 30
self.chart.x
                     = 40
self.chart.y
self.chart.lines[0].strokeColor = color01
self.chart.lines[1].strokeColor = color02
self.chart.lines[2].strokeColor = color03
self.chart.lines[3].strokeColor = color04
self.chart.lines[4].strokeColor = color05
self.chart.lines[5].strokeColor = color06
self.chart.lines[6].strokeColor = color07
self.chart.lines[7].strokeColor = color08
self.chart.lines[8].strokeColor = color09
self.chart.lines[9].strokeColor = color10
self.chart.fillColor
                            = backgroundGrey
                                           = 'Helvetica'
self.chart.lineLabels.fontName
self.chart.xValueAxis.labels.fontName
                                           = 'Helvetica'
self.chart.xValueAxis.labels.fontSize
                                           = 7
self.chart.xValueAxis.forceZero
                                            = 0
                           = [((0, 50), (100, 100), (200, 200), (250, 210), (300, 300), (400, 500)]
self.chart.data
self.chart.xValueAxis.avoidBoundFrac
                                              = 1
self.chart.xValueAxis.gridEnd
                                              = 115
self.chart.xValueAxis.tickDown
                                              = 3
self.chart.xValueAxis.visibleGrid
                                              = 1
self.chart.yValueAxis.tickLeft
                                            = 3
self.chart.yValueAxis.labels.fontName
                                            = 'Helvetica'
self.chart.yValueAxis.labels.fontSize
                                           = 7
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName = 'Helvetica-Bold'
self.Title.fontSize = 7
self.Title.x
                     = 100
self.Title.y
                     = 135
self.Title._text
                     = 'Chart Title'
self.Title.maxWidth = 180
                     = 20
self.Title.height
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName = 'Helvetica'
                          = 7
self.Legend.fontSize
                          = 153
self.Legend.x
self.Legend.y
                          = 85
self.Legend.dxTextSpace
self.Legend.dy
                          = 5
self.Legend.dx
                          = 5
self.Legend.deltay
                          = 5
self.Legend.alignment
                          ='right'
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
self.XLabel.fontName = 'Helvetica'
self.XLabel.fontSize
                          = 85
self.XLabel.x
self.XLabel.y
                          = 10
                          ='middle'
self.XLabel.textAnchor
self.XLabel.maxWidth
                          = 100
self.XLabel.height
                          = 20
                          = "X Axis"
self.XLabel._text
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
self.YLabel.fontName = 'Helvetica'
                          = 7
self.YLabel.fontSize
self.YLabel.x
                          = 12
```

```
= 80
self.YLabel.y
self.YLabel.angle
                           = 90
self.YLabel.textAnchor
                           ='middle'
self.YLabel.maxWidth
                           = 100
self.YLabel.height
                           = 20
                           = "Y Axis"
self.YLabel._text
self.chart.yValueAxis.forceZero
                                           = 1
self.chart.xValueAxis.forceZero
                                           = 1
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



radar

#Autogenerated by ReportLab guiedit do not edit

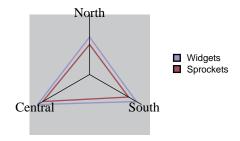
Classes

RadarChart(_DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,SpiderChart(),name='chart',validate=None,desc="The main chart")
self.chart.width
                      = 90
self.chart.height
                      = 45
self.chart.x
self.chart.y
                      = 25
self.chart.strands[0].strokeColor= color01
self.chart.strands[1].strokeColor= color02
self.chart.strands[2].strokeColor= color03
self.chart.strands[3].strokeColor= color04
self.chart.strands[4].strokeColor= color05
self.chart.strands[5].strokeColor= color06
self.chart.strands[6].strokeColor= color07
self.chart.strands[7].strokeColor= color08
self.chart.strands[8].strokeColor= color09
self.chart.strands[9].strokeColor= color10
self.chart.strands[0].fillColor
self.chart.strands[1].fillColor
self.chart.strands[2].fillColor
                                 = None
self.chart.strands[3].fillColor
                                 = None
self.chart.strands[4].fillColor
                                 = None
self.chart.strands[5].fillColor
                                 = None
self.chart.strands[6].fillColor
                                 = None
self.chart.strands[7].fillColor
                                 = None
self.chart.strands[8].fillColor
self.chart.strands[9].fillColor
                                 = None
self.chart.strands.strokeWidth
                                 = 1
self.chart.strandLabels.fontName = 'Helvetica'
self.chart.strandLabels.fontSize = 6
self.chart.fillColor
                                 = backgroundGrey
```

```
= [(125, 180, 200), (100, 150, 180)]
= ['North', 'South', 'Central']
self.chart.data
self.chart.labels
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName
                      = 'Helvetica-Bold'
                       = 7
self.Title.fontSize
                      = 100
self.Title.x
self.Title.y
                      = 135
self.Title._text
                      = 'Chart Title'
self.Title.maxWidth
                     = 180
self.Title.height
                      = 20
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
                          = 'Helvetica'
self.Legend.fontName
                            = 7
self.Legend.fontSize
self.Legend.x
                            = 153
                            = 85
self.Legend.y
self.Legend.dxTextSpace
                            = 5
self.Legend.dy
self.Legend.dx
self.Legend.deltay
self.Legend.alignment
                            ='right'
self.chart.strands.strokeWidth
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



scatter

#Autogenerated by ReportLab guiedit do not edit

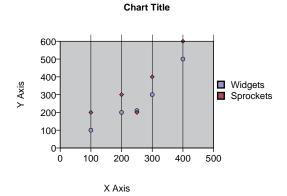
Classes

Scatter(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,neignt=150, args, ....,
    Drawing.__init__(self,width,height,*args,**kw)
      _init__(self,width=200,height=150,*args,**kw):
    self._add(self,ScatterPlot(),name='chart',validate=None,desc="The main chart")
    self.chart.width
                           = 115
    self.chart.height
    self.chart.x
                            = 30
    self.chart.y
                            = 40
    self.chart.lines[0].strokeColor = color01
    self.chart.lines[1].strokeColor = color02
    self.chart.lines[2].strokeColor = color03
    self.chart.lines[3].strokeColor = color04
    self.chart.lines[4].strokeColor = color05
    self.chart.lines[5].strokeColor = color06
    self.chart.lines[6].strokeColor = color07
    self.chart.lines[7].strokeColor = color08
    self.chart.lines[8].strokeColor = color09
```

```
self.chart.lines[9].strokeColor = color10
self.chart.fillColor
                                                                    = backgroundGrey
self.chart.lineLabels.fontName
                                                                                                         = 'Helvetica'
self.chart.xValueAxis.labels.fontName
                                                                                                         = 'Helvetica'
self.chart.xValueAxis.labels.fontSize
self.chart.xValueAxis.forceZero
                                                                                                         = 0
self.chart.data
                                                                  = [((100,100), (200,200), (250,210), (300,300), (400,500)), ((100,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (20
self.chart.xValueAxis.avoidBoundFrac
                                                                                                                = 1
                                                                                                                = 115
self.chart.xValueAxis.gridEnd
self.chart.xValueAxis.tickDown
                                                                                                                = 3
self.chart.xValueAxis.visibleGrid
                                                                                                                = 1
self.chart.yValueAxis.tickLeft
                                                                                                          = 3
self.chart.yValueAxis.labels.fontName
                                                                                                         = 'Helvetica'
self.chart.yValueAxis.labels.fontSize
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName = 'Helvetica-Bold'
                                                   = 7
self.Title.fontSize
                                                   = 100
self.Title.x
self.Title.y
                                                    = 135
self.Title._text
                                                    = 'Chart Title'
self.Title.maxWidth = 180
                                                   = 20
self.Title.height
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName
                                                               = 'Helvetica'
self.Legend.fontSize
                                                                = 7
                                                               = 153
self.Legend.x
self.Legend.y
                                                                = 85
self.Legend.dxTextSpace
self.Legend.dy
self.Legend.dx
self.Legend.deltay
self.Legend.alignment
                                                                ='right'
self.chart.lineLabelFormat = None
self.chart.xLabel
                                                                   = 'X Axis'
self.chart.y
                                                                   = 30
self.chart.yLabel
                                                                   = 'Y Axis'
                                                                                                    = '%d'
self.chart.yValueAxis.labelTextFormat
self.chart.yValueAxis.forceZero
                                                                                                     = 1
self.chart.xValueAxis.forceZero
                                                                                                     = 1
```

self._add(self,0,name='preview',validate=None,desc=None)



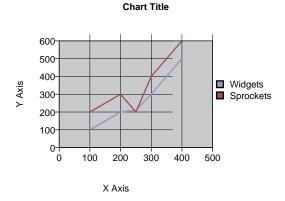
scatter_lines

#Autogenerated by ReportLab guiedit do not edit

Classes

ScatterLines(_DrawingEditorMixin, Drawing)

```
_init__(self,width=200,height=150,*args,**kw):
Drawing.__init__(self,width,height,*args,**kw)
self._add(self,ScatterPlot(),name='chart',validate=None,desc="The main chart")
self.chart.width = 115
                                     = 80
self.chart.height
                                    = 30
self.chart.x
                                    = 40
self.chart.y
self.chart.lines[0].strokeColor = color01
self.chart.lines[1].strokeColor = color02
self.chart.lines[2].strokeColor = color03
self.chart.lines[3].strokeColor = color04
self.chart.lines[4].strokeColor = color05
self.chart.lines[5].strokeColor = color06
self.chart.lines[6].strokeColor = color07
self.chart.lines[7].strokeColor = color08
self.chart.lines[8].strokeColor = color09
self.chart.lines[9].strokeColor = color10
self.chart.lines[0].symbol = None
self.chart.lines[1].symbol = None
self.chart.lines[2].symbol = None
self.chart.lines[3].symbol = None
self.chart.lines[4].symbol = None
self.chart.lines[5].symbol = None
self.chart.lines[6].symbol = None
self.chart.lines[7].symbol = None
self.chart.lines[8].symbol = None
self.chart.lines[9].symbol = None
self.chart.fillColor
                                               = backgroundGrey
                                                                            = 'Helvetica'
self.chart.lineLabels.fontName
self.chart.xValueAxis.labels.fontName
                                                                            = 'Helvetica'
self.chart.xValueAxis.labels.fontSize
                                                                           = 0
self.chart.xValueAxis.forceZero
self.chart.data
                                                = [((100,100), (200,200), (250,210), (300,300), (400,500)), ((100,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (20
self.chart.xValueAxis.avoidBoundFrac
                                                                           = 1
self.chart.xValueAxis.gridEnd
                                                                                  = 115
self.chart.xValueAxis.tickDown
                                                                                  = 3
self.chart.xValueAxis.visibleGrid
                                                                                 = 1
self.chart.yValueAxis.tickLeft
                                                                            = 3
self.chart.yValueAxis.labels.fontName
                                                                             = 'Helvetica'
self.chart.yValueAxis.labels.fontSize
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
self.Title.fontName = 'Helvetica-Bold'
self.Title.fontSize = 7
self.Title.x
                                     = 100
self.Title.y
                                     = 135
self.Title._text
                                     = 'Chart Title'
                                     = 180
self.Title.maxWidth
                                     = 20
self.Title.height
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName
                                              = 'Helvetica'
                                              = 7
self.Legend.fontSize
self.Legend.x
                                              = 153
self.Legend.y
                                              = 85
self.Legend.dxTextSpace
                                              = 5
self.Legend.dy
                                              = 5
self.Legend.dx
                                               = 5
self.Legend.deltay
                                              = 5
self.Legend.alignment = 'right'
self.chart.lineLabelFormat = None
self.chart.xLabel
self.chart.y
                                                = 'X Axis'
                                                = 30
self.chart.yLabel
                                                = 'Y Axis'
self.chart.yValueAxis.gridEnd
                                                                         = 115
self.chart.yValueAxis.visibleGrid
self.chart.yValueAxis.labelTextFormat
                                                                         = '%d'
self.chart.yValueAxis.forceZero
                                                                         = 1
self.chart.xValueAxis.forceZero
                                                                         = 1
self.chart.joinedLines
                                                                          = 1
self._add(self,0,name='preview',validate=None,desc=None)
```



scatter_lines_markers

#Autogenerated by ReportLab guiedit do not edit

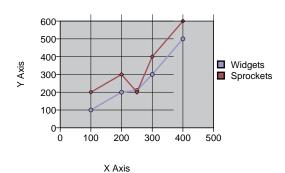
Classes

ScatterLinesMarkers(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
        Drawing.__init__(self,width,height,*args,**kw)
        self._add(self,ScatterPlot(),name='chart',validate=None,desc="The main chart")
        self.chart.width
                                                       = 115
        self.chart.height
                                                       = 80
        self.chart.x
                                                       = 30
                                                       = 40
        self.chart.y
        self.chart.lines[0].strokeColor = color01
        self.chart.lines[1].strokeColor = color02
        self.chart.lines[2].strokeColor = color03
        self.chart.lines[3].strokeColor = color04
        self.chart.lines[4].strokeColor = color05
        self.chart.lines[5].strokeColor = color06
        self.chart.lines[6].strokeColor = color07
        self.chart.lines[7].strokeColor = color08
        self.chart.lines[8].strokeColor = color09
        self.chart.lines[9].strokeColor = color10
        self.chart.fillColor
                                                                      = backgroundGrey
        self.chart.lineLabels.fontName
                                                                                                       = 'Helvetica'
        self.chart.xValueAxis.labels.fontName
                                                                                                        = 'Helvetica'
        self.chart.xValueAxis.labels.fontSize
                                                                                                       = 7
                                                                                                       = 0
        self.chart.xValueAxis.forceZero
                                                                    = [((100,100), (200,200), (250,210), (300,300), (400,500)), ((100,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (200,200), (20
        self.chart.data
        self.chart.xValueAxis.avoidBoundFrac
                                                                                                             = 1
        self.chart.xValueAxis.gridEnd
                                                                                                              = 115
        self.chart.xValueAxis.tickDown
                                                                                                             = 3
                                                                                                             = 1
        self.chart.xValueAxis.visibleGrid
        self.chart.yValueAxis.tickLeft
                                                                                                          3
        self.chart.yValueAxis.labels.fontName
                                                                                                       = 'Helvetica'
                                                                                                       = 7
        self.chart.yValueAxis.labels.fontSize
        self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
        self.Title.fontName
                                                       = 'Helvetica-Bold'
                                                       = 7
        self.Title.fontSize
        self.Title.x
                                                       = 100
        self.Title.y
                                                       = 135
        self.Title._text
                                                       = 'Chart Title'
                                                       = 180
        self.Title.maxWidth
        self.Title.height
        self.Title.textAnchor = 'middle'
        self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
        self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
        self.Legend.fontName
                                                                  = 'Helvetica'
        self.Legend.fontSize
                                                                  = 7
```

```
= 153
self.Legend.x
self.Legend.y
                           = 85
self.Legend.dxTextSpace
                           =
                             5
self.Legend.dy
                             5
self.Legend.dx
                             5
self.Legend.deltay
self.Legend.alignment
                           ='right'
self.chart.lineLabelFormat = None
                            = 'X Axis'
self.chart.xLabel
self.chart.y
                            = 30
self.chart.yLabel
                            = 'Y Axis'
self.chart.yValueAxis.gridEnd
                                           = 115
self.chart.yValueAxis.visibleGrid
                                           = 1
self.chart.yValueAxis.labelTextFormat
                                           = '%d'
self.chart.yValueAxis.forceZero
                                           = 1
self.chart.xValueAxis.forceZero
                                          = 1
self.chart.joinedLines
                                          = 1
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



simple_pie

#Autogenerated by ReportLab guiedit do not edit

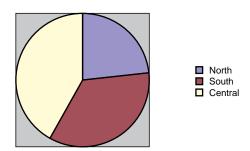
Classes

SimplePie(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
    Drawing.__init__(self,width,height,*args,**kw)
    self._add(self,Pie(),name='chart',validate=None,desc="The main chart")
    self.chart.width
                         = 100
   self.chart.height
                          = 100
    self.chart.x
                          = 25
    self.chart.y
                          = 25
    self.chart.slices[0].fillColor = color01
    self.chart.slices[1].fillColor = color02
    self.chart.slices[2].fillColor = color03
    self.chart.slices[3].fillColor = color04
    self.chart.slices[4].fillColor = color05
    self.chart.slices[5].fillColor = color06
    self.chart.slices[6].fillColor = color07
    self.chart.slices[7].fillColor = color08
    self.chart.slices[8].fillColor = color09
    self.chart.slices[9].fillColor = color10
    self.chart.data
                                   = (100, 150, 180)
    self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
    self.Title.fontName = 'Helvetica-Bold'
                          = 7
    self.Title.fontSize
    self.Title.x
                          = 100
```

```
self.Title.y
                      = 135
                     = 'Chart Title'
self.Title._text
                    = 180
self.Title.maxWidth
self.Title.height
                     = 20
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'North'), (color02, 'South'),(color03, 'Central')]
                          = 'Helvetica'
self.Legend.fontName
                          = 7
self.Legend.fontSize
                          = 160
self.Legend.x
self.Legend.y
                          = 85
self.Legend.dxTextSpace
                          = 5
self.Legend.dy
self.Legend.dx
self.Legend.deltay
                          = 5
                          ='right'
self.Legend.alignment
self.chart.slices.strokeWidth = 1
self.chart.slices.fontName
                              = 'Helvetica'
self.background
                              = ShadedRect()
self.background.fillColorStart = backgroundGrey
self.background.fillColorEnd = backgroundGrey
self.background.numShades
                              = 1
                              = 0.5
self.background.strokeWidth
self.background.x
                              = 25
self.background.y
self.Legend.columnMaximum = 10
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



stacked bar

#Autogenerated by ReportLab guiedit do not edit

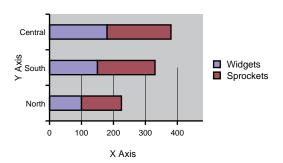
Classes

StackedBar(DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
    Drawing.__init__(self,width,height,*args,**kw)
self._add(self,HorizontalBarChart(),name='chart',validate=None,desc="The main chart")
    self.chart.width
                           = 115
    self.chart.height
                            = 80
    self.chart.x
                            = 30
    self.chart.y
                            = 40
    self.chart.bars[0].fillColor = color01
    self.chart.bars[1].fillColor = color02
    self.chart.bars[2].fillColor = color03
    self.chart.bars[3].fillColor = color04
    self.chart.bars[4].fillColor = color05
    self.chart.bars[5].fillColor = color06
```

```
self.chart.bars[6].fillColor = color07
self.chart.bars[7].fillColor = color08
self.chart.bars[8].fillColor = color09
self.chart.bars[9].fillColor = color10
self.chart.fillColor
                             = backgroundGrey
                                            = 'Helvetica'
self.chart.barLabels.fontName
                                            = 'Helvetica'
self.chart.valueAxis.labels.fontName
self.chart.valueAxis.labels.fontSize
                                            = 6
self.chart.valueAxis.forceZero
                                             = 1
                             = [(100, 150, 180), (125, 180, 200)]
self.chart.data
self.chart.groupSpacing
                            = 15
self.chart.valueAxis.avoidBoundFrac
                                                = 1
self.chart.valueAxis.gridEnd
                                                = 80
                                                = 3
self.chart.valueAxis.tickDown
                                               = 1
self.chart.valueAxis.visibleGrid
                                               = ['North', 'South', 'Central']
self.chart.categoryAxis.categoryNames
                                               = 3
self.chart.categoryAxis.tickLeft
self.chart.categoryAxis.labels.fontName
                                               = 'Helvetica'
                                               = 6
self.chart.categoryAxis.labels.fontSize
self.chart.categoryAxis.labels.dx
self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
                      = 'Helvetica-Bold'
self.Title.fontName
                      = 7
self.Title.fontSize
                      = 100
self.Title.x
self.Title.y
                      = 135
self.Title._text
                      = 'Chart Title'
self.Title.maxWidth = 180
self.Title.height
                      = 20
self.Title.textAnchor ='middle'
self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
self.Legend.fontName = 'Helvetica'
self.Legend.fontSize
                           = 7
self.Legend.x
                           = 153
self.Legend.y
self.Legend.dxTextSpace
                              5
self.Legend.dy
self.Legend.dx
                           = 5
self.Legend.deltay
                            = 5
                         ='right'
self.Legend.alignment
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
self.XLabel.fontName = 'Helvetica'
                           = 7
self.XLabel.fontSize
self.XLabel.x
                           = 85
                           = 10
self.XLabel.y
self.XLabel.textAnchor
                           ='middle'
self.XLabel.maxWidth
                           = 100
self.XLabel.height
                           = 20
                          = "X Axis"
self.XLabel._text
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
self.YLabel.fontName = 'Helvetica'
self.YLabel.fontSize
                           = 7
                           = 12
self.YLabel.x
                           = 80
self.YLabel.y
self.YLabel.angle
                           = 90
self.YLabel.textAnchor
                           ='middle'
self.YLabel.maxWidth
                            = 100
self.YLabel.height
                           = 20
self.YLabel._text
                           = "Y Axis"
self.chart.categoryAxis.style='stacked'
self._add(self,0,name='preview',validate=None,desc=None)
```





stacked column

#Autogenerated by ReportLab guiedit do not edit

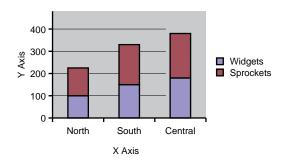
Classes

StackedColumn(_DrawingEditorMixin, Drawing)

```
def __init__(self,width=200,height=150,*args,**kw):
    Drawing.__init__(self,width,height,*args,**kw)
self._add(self,VerticalBarChart(),name='chart',validate=None,desc="The main chart")
    self.chart.width
                          = 115
    self.chart.height
                          = 80
    self.chart.x
                          = 30
                          = 40
    self.chart.y
    self.chart.bars[0].fillColor = color01
    self.chart.bars[1].fillColor = color02
    self.chart.bars[2].fillColor = color03
    self.chart.bars[3].fillColor = color04
    self.chart.bars[4].fillColor = color05
    self.chart.bars[5].fillColor = color06
    self.chart.bars[6].fillColor = color07
    self.chart.bars[7].fillColor = color08
    self.chart.bars[8].fillColor = color09
    self.chart.bars[9].fillColor = color10
                                 = backgroundGrey
    self.chart.fillColor
                                                 = 'Helvetica'
    self.chart.barLabels.fontName
    self.chart.valueAxis.labels.fontName
                                                 = 'Helvetica'
    self.chart.valueAxis.labels.fontSize
                                                 = 7
    self.chart.valueAxis.forceZero
                                = [(100, 150, 180), (125, 180, 200)]
    self.chart.data
    self.chart.groupSpacing
                                 = 15
    self.chart.valueAxis.avoidBoundFrac
                                                    = 1
    self.chart.valueAxis.gridEnd
                                                    = 115
    self.chart.valueAxis.tickLeft
                                                    = 3
    self.chart.valueAxis.visibleGrid
                                                    = 1
                                                      ['North', 'South', 'Central']
    self.chart.categoryAxis.categoryNames
    self.chart.categoryAxis.tickDown
    self.chart.categoryAxis.labels.fontName
                                                      'Helvetica
    self.chart.categoryAxis.labels.fontSize
                                                    = 7
    self._add(self,Label(),name='Title',validate=None,desc="The title at the top of the chart")
                         = 'Helvetica-Bold'
    self.Title.fontName
    self.Title.fontSize
    self.Title.x
                           = 100
                          = 135
    self.Title.y
    self.Title._text
                          = 'Chart Title'
    self.Title.maxWidth
                          = 180
                          = 2.0
    self.Title.height
    self.Title.textAnchor ='middle'
    self._add(self,Legend(),name='Legend',validate=None,desc="The legend or key for the chart")
    self.Legend.colorNamePairs = [(color01, 'Widgets'), (color02, 'Sprockets')]
```

```
= 'Helvetica'
self.Legend.fontName
                           = 7
self.Legend.fontSize
self.Legend.x
                           = 153
self.Legend.y
                           = 85
self.Legend.dxTextSpace
                             5
self.Legend.dy
self.Legend.dx
                           = 5
self.Legend.deltay
                           ='right'
self.Legend.alignment
self._add(self,Label(),name='XLabel',validate=None,desc="The label on the horizontal axis")
                           = 'Helvetica'
self.XLabel.fontName
                           = 7
self.XLabel.fontSize
self.XLabel.x
                           = 85
self.XLabel.y
                           = 10
self.XLabel.textAnchor
                           ='middle'
self.XLabel.maxWidth
                           = 100
                           = 20
self.XLabel.height
self.XLabel._text
                           = "X Axis"
self._add(self,Label(),name='YLabel',validate=None,desc="The label on the vertical axis")
self.YLabel.fontName
                          = 'Helvetica'
self.YLabel.fontSize
self.YLabel.x
                           = 12
self.YLabel.y
                           = 80
self.YLabel.angle
                           = 90
                           ='middle'
self.YLabel.textAnchor
self.YLabel.maxWidth
                           = 100
self.YLabel.height
                           = 20
                           = "Y Axis"
self.YLabel._text
self.chart.categoryAxis.style='stacked'
self._add(self,0,name='preview',validate=None,desc=None)
```

Chart Title



eventcal

This file is a

Classes

EventCalendar(Widget)

Public Attributes

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
data = []
day = 0
endTime = None
height = 150
startTime = None
timeColWidth = None
trackNames = None
trackRowHeight = 20
width = 300
x = 0
y = 0
```

flags

This file is a collection of flag graphics as widgets.

All flags are represented at the ratio of 1:2, even where the official ratio for the flag is something else (such as 3:5 for the German national flag). The only exceptions are for where this would look _very_ wrong, such as the Danish flag whose (ratio is 28:37), or the Swiss flag (which is square).

Unless otherwise stated, these flags are all the 'national flags' of the countries, rather than their state flags, naval flags, ensigns or any other variants. (National flags are the flag flown by civilians of a country and the ones usually used to represent a country abroad. State flags are the variants used by the government and by diplomatic missions overseas).

To check on how close these are to the 'official' representations of flags, check the World Flag Database at http://www.flags.ndirect.co.uk/

The flags this file contains are:

EU Members:

United Kingdom, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Holland (The Netherlands), Spain, Sweden

Others:

USA, Czech Republic, European Union, Switzerland, Turkey, Brazil

(Brazilian flag contributed by Publio da Costa Melo [publio@planetarium.com.br]).

Classes

Flag(Symbol)

This is a generic flag class that all the flags in this file use as a basis.

This class basically provides edges and a tidy-up routine to hide any bits of line that overlap the 'outside' of the flag

possible attributes:

x', 'y', 'size', 'fillColor'

Public Attributes

border Whether a background is drawn

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor Background color

kind Which flag

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

Star(_Symbol)

This draws a 5-pointed star.

possible attributes: 'x', 'y', 'size', 'fillColor', 'strokeColor'

Public Attributes

angle angle in degrees

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

grids

#Copyright ReportLab Europe Ltd. 2000-2012
#see license.txt for license details
#history http://www.reportlab.co.uk/cgi-bin/viewcvs.cgi/public/reportlab/trunk/reportlab/graphics/widgets/grids.py

Classes

DoubleGrid(Widget)

This combines two ordinary Grid objects orthogonal to each other.

Public Attributes

grid0 The first grid component.

grid1 The second grid component.

height The grid's height.

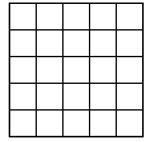
width The grid's width.

x The grid's lower-left x position.

y The grid's lower-left y position.

Example

```
def demo(self):
   D = Drawing(100, 100)
   g = DoubleGrid()
   D.add(g)
   return D
```



```
grid0.delta = 20
grid0.delta0 = 0
grid0.deltaSteps = []
grid0.fillColor = Color(1,1,1,1)
grid0.height = 100
grid0.orientation = 'vertical'
grid0.stripeColors = [Color(1,0,0,1), Color(0,.501961,0,1), Color(0,0,1,1)]
grid0.strokeColor = Color(0,0,0,1)
grid0.strokeWidth = 1
grid0.useLines = 1
grid0.useRects = 0
grid0.width = 100
grid0.x = 0
grid0.y = 0
grid1.delta = 20
grid1.delta0 = 0
grid1.deltaSteps = []
grid1.fillColor = Color(1,1,1,1)
grid1.height = 100
grid1.orientation = 'horizontal'
gridl.stripeColors = [Color(1,0,0,1), Color(0,.501961,0,1), Color(0,0,1,1)] gridl.strokeColor = Color(0,0,0,1)
grid1.strokeWidth = 1
grid1.useLines = 1
grid1.useRects = 0
grid1.width = 100
grid1.x = 0
grid1.y = 0
height = 100
width = 100
x = 0
y = 0
```

Grid(Widget)

This makes a rectangular grid of equidistant stripes.

The grid contains an outer border rectangle, and stripes inside which can be drawn with lines and/or as solid tiles. The drawing order is: outer rectangle, then lines and tiles.

The stripes' width is indicated as 'delta'. The sequence of stripes can have an offset named 'delta0'. Both values need to be positive!

Public Attributes

delta Determines the width/height of the stripes.

delta0 Determines the stripes initial width/height offset.

deltaSteps List of deltas to be used cyclically.

fillColor Background color for entire rectangle.

height The grid's height.

orientation Determines if stripes are vertical or horizontal.

rectStrokeColor Color for outer rect stroke.

rectStrokeWidth Width for outer rect stroke.

stripeColors Colors applied cyclically in the right or upper direction.

strokeColor Color used for lines.

strokeWidth Width used for lines.

useLines Determines if stripes are drawn with lines.

useRects Determines if stripes are drawn with solid rectangles.

width The grid's width.

x The grid's lower-left x position.

y The grid's lower-left y position.

Example

```
def demo(self):
   D = Drawing(100, 100)

g = Grid()
   D.add(g)

return D
```

```
delta = 20
delta0 = 0
deltaSteps = []
fillColor = Color(1,1,1,1)
height = 100
orientation = 'vertical'
stripeColors = [Color(1,0,0,1), Color(0,.501961,0,1), Color(0,0,1,1)]
strokeColor = Color(0,0,0,1)
strokeWidth = 2
useLines = 0
```

useRects = 1 width = 100 x = 0 y = 0

ShadedPolygon(Widget, LineShape)

Public Attributes

```
angle Shading angle
```

cylinderMode True if shading reverses in middle.

fillColorEnd None

fillColorStart None

numShades The number of interpolating colors.

overprintMask overprinting for ordinary CMYK

points None

strokeColor None

strokeDashArray a sequence of numbers represents on and off, e.g. (2,1)

strokeLineCap Line cap 0=butt, 1=round 2=square

strokeLineJoin Line join 0=miter, 1=round 2=bevel

strokeMiterLimit miter limit control miter line joins

strokeOpacity The level of transparency of the line, any real number betwen 0 and 1

strokeOverprint Turn on stroke overprinting

strokeWidth None

Example

```
def demo(self):
    msg = "demo() must be implemented for each Widget!"
    raise shapes.NotImplementedError, msg
```

```
angle = 90
cylinderMode = 0
fillColorEnd = Color(0,.501961,0,1)
fillColorStart = Color(1,0,0,1)
numShades = 50
points = [-1, -1, 2, 2, 3, -1]
strokeColor = Color(0,0,0,1)
strokeDashArray = None
strokeLineCap = 0
strokeLineJoin = 0
strokeMiterLimit = 0
strokeOpacity = None
strokeWidth = 1
```

ShadedRect(Widget)

This makes a rectangle with shaded colors between two colors.

Colors are interpolated linearly between 'fillColorStart' and 'fillColorEnd', both of which appear at the margins. If 'numShades' is set to one, though, only 'fillColorStart' is used.

Public Attributes

cylinderMode True if shading reverses in middle.

fillColorEnd End value of the color shade.

fillColorStart Start value of the color shade.

height The grid's height.

numShades The number of interpolating colors.

orientation Determines if stripes are vertical or horizontal.

strokeColor Color used for border line.

strokeWidth Width used for lines.

width The grid's width.

x The grid's lower-left x position.

y The grid's lower-left y position.

Example

```
def demo(self):
   D = Drawing(100, 100)
   g = ShadedRect()
   D.add(g)
   return D
```



```
cylinderMode = 0
fillColorEnd = Color(0,0,0,1)
fillColorStart = Color(1,.752941,.796078,1)
height = 100
numShades = 20
orientation = 'vertical'
strokeColor = Color(0,0,0,1)
strokeWidth = 2
width = 100
x = 0
y = 0
```

signsandsymbols

This file is a collection of widgets to produce some common signs and symbols.

Widgets include:

- ETriangle (an equilateral triangle),
- RTriangle (a right angled triangle),
- Octagon,
- Crossbox,
- Tickbox,
- SmileyFace,
- StopSign,
- NoEntry,
- NotAllowed (the red roundel from 'no smoking' signs),
- NoSmoking,
- DangerSign (a black exclamation point in a yellow triangle),
- YesNo (returns a tickbox or a crossbox depending on a testvalue),
- FloppyDisk,
- ArrowOne, and
- ArrowTwo

Classes

ArrowOne(_Symbol)

This widget draws an arrow (style one).

possible attributes:

'x', 'y', 'size', 'fillColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

ArrowTwo(ArrowOne)

This widget draws an arrow (style two).

possible attributes:

'x', 'y', 'size', 'fillColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

Crossbox(_Symbol)

This draws a black box with a red cross in it - a 'checkbox'.

possible attributes:

'x', 'y', 'size', 'crossColor', 'strokeColor', 'crosswidth'

Public Attributes

crossColor None

crosswidth None

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

DangerSign(_Symbol)

This draws a 'danger' sign: a yellow box with a black exclamation point.

possible attributes:

'x', 'y', 'size', 'strokeColor', 'fillColor', 'strokeWidth'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

ETriangle(_Symbol)

This draws an equilateral triangle.

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

FloppyDisk(_Symbol)

This widget draws an icon of a floppy disk.

possible attributes:

'x', 'y', 'size', 'diskcolor'

Public Attributes

diskColor None

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

NoEntry(_Symbol)

This draws a (British) No Entry sign - a red circle with a white line on it.

possible attributes:

'x', 'y', 'size'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

innerBarColor color of the inner bar

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

NoSmoking(NotAllowed)

This draws a no-smoking sign.

possible attributes:

'x', 'y', 'size'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

NotAllowed(_Symbol)

This draws a 'forbidden' roundel (as used in the no-smoking sign).

possible attributes:

'x', 'y', 'size'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

Octagon(_Symbol)

This widget draws an Octagon.

possible attributes:

'x', 'y', 'size', 'fillColor', 'strokeColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

RTriangle(_Symbol)

This draws a right-angled triangle.

possible attributes:

'x', 'y', 'size', 'fillColor', 'strokeColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

SmileyFace(_Symbol)

This draws a classic smiley face.

possible attributes:

'x', 'y', 'size', 'fillColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

StopSign(_Symbol)

This draws a (British) stop sign.

possible attributes:

'x', 'y', 'size'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

stopColor color of the word stop

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

Tickbox(_Symbol)

This draws a black box with a red tick in it - another 'checkbox'.

possible attributes:

'x', 'y', 'size', 'tickColor', 'strokeColor', 'tickwidth'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

tickColor None

tickwidth None

x symbol x coordinate

y symbol y coordinate

YesNo(_Symbol)

This widget draw a tickbox or crossbox depending on 'testValue'.

If this widget is supplied with a 'True' or 1 as a value for testValue, it will use the tickbox widget. Otherwise, it will produce a crossbox.

possible attributes:

'x', 'y', 'size', 'tickcolor', 'crosscolor', 'testValue'

Public Attributes

crosscolor None

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

testValue None

tickcolor None

x symbol x coordinate

y symbol y coordinate

_Symbol(Widget)

Abstract base widget possible attributes: 'x', 'y', 'size', 'fillColor', 'strokeColor'

Public Attributes

dx symbol x coordinate adjustment

dy symbol x coordinate adjustment

fillColor None

size None

strokeColor None

strokeWidth None

x symbol x coordinate

y symbol y coordinate

table

#Copyright ReportLab Europe Ltd. 2000-2012
#see license.txt for license details
#history http://www.reportlab.co.uk/cgi-bin/viewcvs.cgi/public/reportlab/trunk/reportlab/graphics/widgets/grids.py

Classes

TableWidget(Widget)

A two dimensions table of labels

Public Attributes

alignment Alignment of text within cells

borderStrokeColor table border color

borderStrokeWidth border line width

boxAnchor location of the table anchoring point

data a list of list of strings to be displayed in the cells

dividerDashArray Dash array for dividerLines.

fillColor table fill color

fontColor font color

fontName text font in the table

fontSize font size of the table

height table height

horizontalDividerStrokeColor table inner horizontal lines color

horizontalDividerStrokeWidth table inner horizontal lines width

textAnchor Alignment of text within cells

verticalDividerStrokeColor table inner vertical lines color

verticalDividerStrokeWidth table inner vertical lines width

width table width

x x position of left edge of table

y y position of bottom edge of table

Example

```
def demo(self):
    """ returns a sample of this widget with data
    """
    d = Drawing(400, 200)
    t = TableWidget()
    d.add(t, name='table')
    d.table.dividerDashArray = (1, 3, 2)
    d.table.verticalDividerStrokeColor = None
    d.table.borderStrokeWidth = 0
    d.table.borderStrokeColor = colors.red
    return d
```

```
fontSize = 8
height = 100
horizontalDividerStrokeColor = Color(0,0,0,1)
horizontalDividerStrokeWidth = 0.5
textAnchor = 'start'
verticalDividerStrokeColor = Color(0,0,0,1)
verticalDividerStrokeWidth = 0.25
width = 200
x = 10
y = 10
```