

Package ‘xlcharts’

May 8, 2026

Title Create Native 'Excel' Charts and Work with Microsoft 'Excel' Files

Version 0.0.2

Maintainer Felix Luginbuhl <felix.luginbuhl@protonmail.ch>

Description An R interface to the 'OpenPyXL' 'Python' library to create native 'Excel' charts and work with Microsoft 'Excel' files.

URL <https://felixluginbuhl.com/xlcharts/>

License MIT + file LICENSE

SystemRequirements Python (>= 2.7.0), Conda

BugReports <https://github.com/lgnbhl/xlcharts/issues>

Config/reticulate list(packages = list(list(package = ``openpyxl")))
)

Depends R (>= 3.5)

Imports reticulate, writexl

Suggests testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.2.3

Config/testthat/edition 3

NeedsCompilation no

Author Felix Luginbuhl [aut, cre, cph] (ORCID:
<<https://orcid.org/0009-0008-6625-2899>>),
Eric Gazoni [ctb, cph] (Author of openpyxl (see AUTHORS and COPYRIGHT files for details)),
Charlie Clark [ctb, cph] (Author of openpyxl (see AUTHORS and COPYRIGHT files for details)),
openpyxl authors [ctb, cph] (Authors of openpyxl (see AUTHORS and COPYRIGHT files for details))

Repository CRAN

Date/Publication 2024-04-22 16:00:02 UTC

Contents

AbsoluteAnchor	10
absolute_coordinate	11
active	11
add_chart	12
add_data	13
add_table	14
AdjPoint2D	15
AdjustHandleList	15
Alignment	16
AlphaBiLevelEffect	17
AlphaCeilingEffect	18
AlphaFloorEffect	18
AlphaInverseEffect	19
AlphaModulateEffect	19
AlphaModulateFixedEffect	20
AlphaReplaceEffect	21
AnchorClientData	21
AnchorMarker	22
angle_to_degrees	23
AreaChart	23
AreaChart3D	24
ArrayDescriptor	25
ArrayFormula	25
AuthorList	26
AutoFilter	27
AutonumberBullet	28
avoid_duplicate_name	28
AxDataSource	29
Backdrop	30
BandFormat	31
BandFormatList	31
BarChart	32
BarChart3D	33
Bevel	34
BiLevelEffect	34
Blip	35
BlipFillProperties	37
BlurEffect	38
BookView	39
Border	40
Break	41
BubbleChart	42
builtin_format_code	43
builtin_format_id	44
CalcProperties	45
Camera	46

cast_numeric	47
cast_percentage	47
cast_time	48
Cell	49
CellsRule	50
CellRange	51
CellSmartTag	52
CellSmartTagPr	53
CellSmartTags	53
CellStyle	54
CellStyleList	55
CellWatch	56
CellWatches	57
CharacterProperties	57
ChartContainer	60
ChartLines	61
ChartRelation	62
Chartsheet	62
ChartsheetProperties	64
ChartsheetProtection	64
ChartsheetView	65
ChartsheetViewList	66
ChartSpace	67
cm_to_dxa	68
cm_to_EMU	69
ColBreak	69
Color	70
ColorChangeEffect	71
ColorChoice	72
ColorFilter	73
ColorList	73
ColorMapping	74
ColorReplaceEffect	75
ColorScale	76
ColorScaleRule	76
ColRange	78
ColumnDimension	78
column_index_from_string	80
Comment	81
CommentRecord	81
CommentSheet	83
ConditionalFormatting	83
ConditionalFormattingList	84
Connection	85
ConnectionSite	85
ConnectionSiteList	86
ConnectorLocking	87
Control	87

ControlProperty	88
Controls	89
coordinate_from_string	90
coordinate_to_tuple	91
CustomFilter	91
CustomFilters	92
CustomGeometry2D	93
CustomProperties	94
CustomProperty	94
CustomSplit	95
DashStop	95
DashStopList	96
DataBar	97
DataBarRule	98
DataLabel	99
DataLabelList	99
DataPoint	100
DataTable	101
DataTableFormula	102
DataValidation	103
DataValidationList	104
DateAxis	105
DateGroupItem	106
deepcopy	107
DefinedName	108
DefinedNameList	109
degrees_to_angle	110
DifferentialStyle	111
DifferentialStyleList	112
Dimension	112
DimensionHolder	113
DisplayUnitsLabel	114
DisplayUnitsLabelList	115
DocumentProperties	115
DocumentSecurity	117
DoughnutChart	118
Drawing	119
DrawingHF	120
DummyWorksheet	121
DuotoneEffect	122
dxa_to_cm	122
DynamicFilter	123
EffectContainer	124
EffectList	125
EmbeddedWAVAudioFile	126
EmptyCell	126
EMU_to_cm	127
EMU_to_inch	127

EMU_to_pixels	128
ErrorBars	129
ExcelReader	130
ExcelWriter	131
expand_cell_ranges	131
Extension	132
ExtensionList	133
ExternalBook	133
ExternalCell	134
ExternalData	135
ExternalDefinedName	136
ExternalLink	136
ExternalReference	137
ExternalSheetDataSet	138
ExternalSheetNames	138
FileSharing	139
FileVersion	140
Fill	141
FillOverlayEffect	141
FilterColumn	142
Filters	143
Font	144
FontReference	145
FormatObject	146
FormulaRule	147
FunctionGroup	148
FunctionGroupList	148
GeomGuide	149
GeomGuideList	150
GeomRect	150
get_column_interval	151
get_column_letter	152
get_type	152
GlowEffect	153
GradientFill	154
GradientFillProperties	155
GradientStop	156
GraphicalProperties	157
GraphicData	158
GraphicFrameLocking	159
GraphicObject	160
GrayscaleEffect	160
GroupLocking	161
GroupShapeProperties	162
GroupTransform2D	163
hash_password	164
HeaderFooter	165
HeaderFooterItem	166

HSLColor	167
HSLEffect	167
Hyperlink	168
HyperlinkList	169
iadd	169
IconFilter	170
IconSet	171
IconSetRule	172
IgnoredError	173
IgnoredErrors	174
Image	174
inch_to_dxa	175
inch_to_EMU	176
InlineFont	176
InnerShadowEffect	178
InputCells	179
install_openpyxl	180
install_pillow	180
Layout	181
Legend	181
LegendEntry	182
Level	183
LightRig	183
LinearShadeProperties	184
LineBreak	185
LineChart	185
LineChart3D	186
LineEndProperties	187
LineProperties	188
ListStyle	189
load_workbook	190
LuminanceEffect	191
ManualLayout	192
Marker	193
MergeCell	194
MergeCells	194
MergedCell	195
MergedCellRange	196
MultiCellRange	197
MultiLevelStrData	197
MultiLevelStrRef	198
NamedStyle	199
NamedStyleList	200
NestedGapAmount	201
NestedOverlap	201
NonVisualConnectorProperties	202
NonVisualDrawingShapeProps	203
NonVisualGraphicFrameProperties	203

NonVisualPictureProperties	204
NumData	205
NumDataSource	206
NumericAxis	206
NumFmt	207
NumRef	208
NumVal	208
ObjectAnchor	209
OneCellAnchor	210
Outline	211
PageBreak	212
PageMargins	212
PageSetupProperties	213
Pane	214
Paragraph	215
ParagraphProperties	216
Path2D	218
Path2DList	218
PathShadeProperties	219
PatternFill	220
PatternFillProperties	221
PhoneticProperties	221
PhoneticText	222
PieChart	223
PieChart3D	223
PivotFormat	224
PivotSource	225
pixels_to_EMU	226
pixels_to_points	226
PlotArea	227
Point2D	228
Point3D	229
points_to_pixels	229
PositiveSize2D	230
PresetGeometry2D	231
PresetShadowEffect	231
PrintArea	232
PrintOptions	233
PrintPageSetup	234
PrintSettings	235
PrintTitles	236
ProjectedPieChart	237
Protection	238
quote_sheetname	239
RadarChart	239
range_boundaries	240
range_to_tuple	241
ReadOnlyCell	242

Reference	242
RegularTextRun	243
Related	244
RelativeRect	245
RichTextProperties	245
RowBreak	247
RowDimension	248
RowRange	249
rows_from_range	250
Rule	251
RuleType	252
save_workbook	253
Scaling	254
ScatterChart	255
Scenario	256
ScenarioList	257
Scene3D	257
SchemeColor	258
Selection	260
Series	261
SeriesAxis	262
SeriesFactory	263
SeriesLabel	264
set_categories	264
Shape	265
Shape3D	266
ShapeStyle	267
SheetBackgroundPicture	268
SheetDimension	269
SheetFormatProperties	269
SheetProtection	270
SheetView	272
SheetViewList	274
short_color	275
Side	275
SmartTag	276
SmartTagList	277
SmartTagProperties	277
SmartTags	278
SoftEdgesEffect	279
SolidColorFillProperties	279
SortCondition	280
SortState	281
Spacing	282
SphereCoords	283
SpreadsheetDrawing	284
StockChart	284
Stop	285

StopList	286
StrData	287
StretchInfoProperties	287
StrRef	288
StrVal	289
StyleArray	289
StyleMatrixReference	290
Stylesheet	291
SurfaceChart	292
SurfaceChart3D	293
SystemColor	293
Table	296
TableColumn	298
TableFormula	299
TableNameDescriptor	300
TablePartList	300
TableStyle	301
TableStyleElement	302
TableStyleInfo	302
TableStyleList	303
TextAxis	304
TextBlock	305
TextField	306
TextNormalAutofit	306
TintEffect	307
Title	308
TitleDescriptor	309
title_maker	309
Transform2D	310
Trendline	311
TrendlineLabel	312
TwoCellAnchor	313
UpDownBars	314
ValueDescriptor	314
Vector3D	315
WebPublishing	316
WebPublishItem	317
WebPublishObject	318
WebPublishObjectList	319
Workbook	320
WorkbookParser	320
WorkbookProperties	321
WorkbookProtection	323
WorksheetCopy	324
WorksheetProperties	325
WriteOnlyCell	326
write_stylesheet	327
XDRPoint2D	328

XDRPositiveSize2D	328
XDRTransform2D	329
XMLColumnProps	330
XYSeries	331
x_axis	332
y_axis	333

Index	334
--------------	------------

AbsoluteAnchor	<i>AbsoluteAnchor</i>
----------------	-----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
AbsoluteAnchor(pos = NULL, ext = NULL, ...)
```

Arguments

pos	pos
ext	ext
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
AbsoluteAnchor()

## End(Not run)
```

absolute_coordinate	<i>absolute_coordinate</i>
---------------------	----------------------------

Description

Convert a coordinate to an absolute coordinate string (B12 -> \$B\$12)

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
absolute_coordinate(coord_string, ...)
```

Arguments

coord_string	coord_string
...	Additional arguments, i.e. kwargs.

Value

An string.

Examples

```
## Not run:  
absolute_coordinate("A1")  
  
## End(Not run)
```

active	<i>active</i>
--------	---------------

Description

Get the currently active sheet or NULL.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.workbook.html#openpyxl.workbook.workbook.Workbook.active>

Usage

```
active(py_obj)
```

Arguments

py_obj	py_obj
--------	--------

Details

:type: :class:'openpyxl.worksheet.worksheet.Worksheet'

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
wb |> active() #equivalent to wb$active

## End(Not run)
```

add_chart	<i>Add a chart to the sheet</i>
-----------	---------------------------------

Description

Optionally provide a cell for the top-left anchor

Usage

```
add_chart(py_obj, chart, anchor = NULL, ...)
```

Arguments

py_obj	py_obj
chart	chart
anchor	anchor
...	Additional arguments, i.e. kwargs.

Details

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.worksheet.html#openpyxl.worksheet.worksheet.Worksheet.add_chart

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ws <- wb$active
chart <- BarChart(type = "col")
data <- Reference(ws, min_col=2, min_row=1, max_row=7, max_col=3)
cats <- Reference(ws, min_col=1, min_row=2, max_row=7)
chart |>
  add_data(data = data, titles_from_data = TRUE) |>
  set_categories(cats)
ws |> add_chart(chart, "A10")

## End(Not run)
```

add_data

Add a range of data in a single pass.

Description

The default is to treat each column as a data series.

Usage

```
add_data(py_obj, data, from_rows = FALSE, titles_from_data = FALSE)
```

Arguments

py_obj	py_obj
data	data
from_rows	from_rows
titles_from_data	titles_from_data

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ws <- active(wb)

chart1 <- BarChart(
  type = "col",
  style = 10,
  title = "Bar Chart",
```

```

    shape = 4
) |>
  y_axis(title = "Test number") |>
  x_axis(title = "Sample length (mm)")

data <- Reference(ws, min_col=2, min_row=1, max_row=7, max_col=3)
cats <- Reference(ws, min_col=1, min_row=2, max_row=7)

chart1 |>
  add_data(data = data, titles_from_data = TRUE) |>
  set_categories(cats)

## End(Not run)

```

add_table	<i>Check for duplicate name in definedNames and other worksheet tables before adding table.</i>
-----------	---

Description

Check for duplicate name in definedNames and other worksheet tables before adding table.

Usage

```
add_table(py_obj, table)
```

Arguments

py_obj	py_obj
table	table

Value

An openpyxl Python object.

Examples

```

## Not run:
wb <- Workbook()
ws <- wb$active
tab = Table(displayName="Table1", ref="A1:E5")
ws |> add_table(tab)
ws$tables

## End(Not run)

```

AdjPoint2D

AdjPoint2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
AdjPoint2D(x = NULL, y = NULL, ...)
```

Arguments

x	x
y	y
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AdjPoint2D(x = 1L, y = 2L)  
  
## End(Not run)
```

AdjustHandleList

AdjustHandleList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
AdjustHandleList(...)
```

Arguments

...	Additional arguments, i.e. kwargs.
-----	------------------------------------

Value

An openpyxl Python object.

Examples

```
## Not run:
AdjustHandleList()

## End(Not run)
```

Alignment

Alignment

Description

Alignment options for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.alignment.html>

Usage

```
Alignment(
    horizontal = NULL,
    vertical = NULL,
    textRotation = 0L,
    wrapText = NULL,
    shrinkToFit = NULL,
    indent = 0L,
    relativeIndent = 0L,
    justifyLastLine = NULL,
    readingOrder = 0L,
    text_rotation = NULL,
    wrap_text = NULL,
    shrink_to_fit = NULL,
    mergeCell = NULL,
    ...
)
```

Arguments

horizontal	horizontal
vertical	vertical
textRotation	textRotation
wrapText	wrapText
shrinkToFit	shrinkToFit
indent	indent
relativeIndent	relativeIndent
justifyLastLine	justifyLastLine

readingOrder	readingOrder
text_rotation	text_rotation
wrap_text	wrap_text
shrink_to_fit	shrink_to_fit
mergeCell	mergeCell
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Alignment()

## End(Not run)
```

AlphaBiLevelEffect	<i>AlphaBiLevelEffect</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaBiLevelEffect(thresh = NULL, ...)
```

Arguments

thresh	thresh
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
AlphaBiLevelEffect(thresh = 1L)

## End(Not run)
```

AlphaCeilingEffect *AlphaCeilingEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaCeilingEffect(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaCeilingEffect()  
  
## End(Not run)
```

AlphaFloorEffect *AlphaFloorEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaFloorEffect(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaFloorEffect()  
  
## End(Not run)
```

AlphaInverseEffect *AlphaInverseEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaInverseEffect(...)
```

Arguments

```
...                    Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaInverseEffect()  
  
## End(Not run)
```

AlphaModulateEffect *AlphaModulateEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaModulateEffect(cont = NULL, ...)
```

Arguments

cont	cont
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaModulateEffect(cont = EffectContainer(type = "tree"))  
  
## End(Not run)
```

AlphaModulateFixedEffect
AlphaModulateFixedEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaModulateFixedEffect(amt = NULL, ...)
```

Arguments

amt	amt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaModulateFixedEffect(amt = 1L)  
  
## End(Not run)
```

AlphaReplaceEffect *AlphaReplaceEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
AlphaReplaceEffect(a = NULL, ...)
```

Arguments

a	a
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AlphaReplaceEffect(a = 1L)  
  
## End(Not run)
```

AnchorClientData *AnchorClientData*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
AnchorClientData(fLocksWithSheet = NULL, fPrintsWithSheet = NULL, ...)
```

Arguments

fLocksWithSheet	fLocksWithSheet
fPrintsWithSheet	fPrintsWithSheet
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
AnchorClientData()

## End(Not run)
```

AnchorMarker

AnchorMarker

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
AnchorMarker(col = 0L, colOff = 0L, row = 0L, rowOff = 0L, ...)
```

Arguments

col	col
colOff	colOff
row	row
rowOff	rowOff
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
AnchorMarker()

## End(Not run)
```

angle_to_degrees	<i>angle_to_degrees</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
angle_to_degrees(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:
angle_to_degrees(value = 1000L)

## End(Not run)
```

AreaChart	<i>AreaChart</i>
-----------	------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.area_chart.html

Usage

```
AreaChart(axId = NULL, extLst = NULL, ...)
```

Arguments

axId	axId
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AreaChart()  
  
## End(Not run)
```

AreaChart3D

AreaChart3D

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.area_chart.html

Usage

```
AreaChart3D(gapDepth = NULL, ...)
```

Arguments

gapDepth	gapDepth
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AreaChart3D()  
  
## End(Not run)
```

ArrayDescriptor	<i>ArrayDescriptor</i>
-----------------	------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.cell_style.html

Usage

```
ArrayDescriptor(key = NULL, ...)
```

Arguments

key	key
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ArrayDescriptor()  
  
## End(Not run)
```

ArrayFormula	<i>ArrayFormula</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.formula.html>

Usage

```
ArrayFormula(ref, text = NULL, ...)
```

Arguments

ref	ref
text	text
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ArrayFormula(ref = "A1")  
  
## End(Not run)
```

AuthorList

AuthorList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.comments.author.html>

Usage

```
AuthorList(author = list(), ...)
```

Arguments

author	author
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AuthorList(author = c("author1", "author2"))  
  
## End(Not run)
```

AutoFilter

AutoFilter

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
AutoFilter(  
    ref = NULL,  
    filterColumn = list(),  
    sortState = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

ref	ref
filterColumn	filterColumn
sortState	sortState
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AutoFilter()  
  
## End(Not run)
```

AutonumberBullet	<i>AutonumberBullet</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
AutonumberBullet(type = NULL, startAt = NULL, ...)
```

Arguments

type	type
startAt	startAt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
AutonumberBullet(type = "hindiNumPeriod", startAt = 1L)

## End(Not run)
```

avoid_duplicate_name	<i>avoid_duplicate_name</i>
----------------------	-----------------------------

Description

Naive check to see whether name already exists.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.child.html>

Usage

```
avoid_duplicate_name(names, value, ...)
```

Arguments

names	names
value	value
...	Additional arguments, i.e. kwargs.

Details

If name does exist suggest a name using an incremter Duplicates are case insensitive

Value

An character string.

Examples

```
## Not run:
avoid_duplicate_name(names = "name", value = "name")

## End(Not run)
```

AxDataSource

AxDataSource

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
AxDataSource(
  numRef = NULL,
  numLit = NULL,
  strRef = NULL,
  strLit = NULL,
  multiLvlStrRef = NULL,
  ...
)
```

Arguments

numRef	numRef
numLit	numLit
strRef	strRef
strLit	strLit
multiLvlStrRef	multiLvlStrRef
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
AxDataSource(numRef = NumRef())  
  
## End(Not run)
```

Backdrop

Backdrop

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Backdrop(anchor = NULL, norm = NULL, up = NULL, extLst = NULL, ...)
```

Arguments

anchor	anchor
norm	norm
up	up
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Backdrop(  
  anchor = Point3D(x = 1L, y = 2L, z = 3L),  
  norm = Vector3D(dx = 1L, dy = 2L, dz = 3L),  
  up = Vector3D(dx = 1L, dy = 2L, dz = 3L)  
)  
  
## End(Not run)
```

BandFormat

BandFormat

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.surface_chart.html

Usage

```
BandFormat(idx = 0L, spPr = NULL, ...)
```

Arguments

idx	idx
spPr	spPr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
BandFormat()  
  
## End(Not run)
```

BandFormatList

BandFormatList

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.surface_chart.html

Usage

```
BandFormatList(bandFmt = list(), ...)
```

Arguments

bandFmt	bandFmt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
BandFormatList()

## End(Not run)
```

BarChart

BarChart

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.bar_chart.html

Usage

```
BarChart(gapWidth = 150L, overlap = NULL, serLines = NULL, extLst = NULL, ...)
```

Arguments

gapWidth	gapWidth
overlap	overlap
serLines	serLines
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
BarChart()

## End(Not run)
```

BarChart3D

BarChart3D

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.bar_chart.html

Usage

```
BarChart3D(  
    gapWidth = 150L,  
    gapDepth = 150L,  
    shape = NULL,  
    serLines = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

gapWidth	gapWidth
gapDepth	gapDepth
shape	shape
serLines	serLines
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
BarChart3D()  
  
## End(Not run)
```

Bevel	<i>Bevel</i>
-------	--------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Bevel(w = NULL, h = NULL, prst = NULL, ...)
```

Arguments

w	w integer
h	h integer
prst	prst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Bevel(w = 1L, h = 1L)

## End(Not run)
```

BiLevelEffect	<i>BiLevelEffect</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
BiLevelEffect(thresh = NULL, ...)
```

Arguments

thresh	thresh
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
BiLevelEffect(thresh = 1L)  
  
## End(Not run)
```

Blip

Blip

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
Blip(  
  cstate = NULL,  
  embed = NULL,  
  link = NULL,  
  noGrp = NULL,  
  noSelect = NULL,  
  noRot = NULL,  
  noChangeAspect = NULL,  
  noMove = NULL,  
  noResize = NULL,  
  noEditPoints = NULL,  
  noAdjustHandles = NULL,  
  noChangeArrowheads = NULL,  
  noChangeShapeType = NULL,  
  extLst = NULL,  
  alphaBiLevel = NULL,  
  alphaCeiling = NULL,  
  alphaFloor = NULL,  
  alphaInv = NULL,  
  alphaMod = NULL,  
  alphaModFix = NULL,  
  alphaRepl = NULL,  
  biLevel = NULL,  
  blur = NULL,  
  clrChange = NULL,  
  clrRepl = NULL,  
  duotone = NULL,
```

```

    fillOverlay = NULL,
    grayscl = NULL,
    hsl = NULL,
    lum = NULL,
    tint = NULL,
    ...
)

```

Arguments

cstate	cstate
embed	embed
link	link
noGrp	noGrp
noSelect	noSelect
noRot	noRot
noChangeAspect	noChangeAspect
noMove	noMove
noResize	noResize
noEditPoints	noEditPoints
noAdjustHandles	noAdjustHandles
noChangeArrowheads	noChangeArrowheads
noChangeShapeType	noChangeShapeType
extLst	extLst
alphaBiLevel	alphaBiLevel
alphaCeiling	alphaCeiling
alphaFloor	alphaFloor
alphaInv	alphaInv
alphaMod	alphaMod
alphaModFix	alphaModFix
alphaRepl	alphaRepl
biLevel	biLevel
blur	blur
clrChange	clrChange
clrRepl	clrRepl
duotone	duotone
fillOverlay	fillOverlay
grayscl	grayscl

hsl	hsl
lum	lum
tint	tint
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Blip()

## End(Not run)
```

BlipFillProperties	<i>BlipFillProperties</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
BlipFillProperties(
    dpi = NULL,
    rotWithShape = NULL,
    blip = NULL,
    tile = NULL,
    srcRect = NULL,
    ...
)
```

Arguments

dpi	dpi
rotWithShape	rotWithShape
blip	blip
tile	tile
srcRect	srcRect
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
BlipFillProperties()  
  
## End(Not run)
```

BlurEffect

BlurEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
BlurEffect(rad = NULL, grow = NULL, ...)
```

Arguments

rad	rad
grow	grow
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
BlurEffect(rad = 0.5)  
  
## End(Not run)
```

 BookView

BookView

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.views.html>

Usage

```
BookView(
    visibility = "visible",
    minimized = FALSE,
    showHorizontalScroll = TRUE,
    showVerticalScroll = TRUE,
    showSheetTabs = TRUE,
    xWindow = NULL,
    yWindow = NULL,
    windowHeight = NULL,
    windowWidth = NULL,
    tabRatio = 600L,
    firstSheet = 0L,
    activeTab = 0L,
    autoFilterDateGrouping = TRUE,
    extLst = NULL,
    ...
)
```

Arguments

visibility	visibility
minimized	minimized
showHorizontalScroll	showHorizontalScroll
showVerticalScroll	showVerticalScroll
showSheetTabs	showSheetTabs
xWindow	xWindow
yWindow	yWindow
windowWidth	windowWidth
windowHeight	windowHeight
tabRatio	tabRatio
firstSheet	firstSheet
activeTab	activeTab

```

autoFilterDateGrouping
    autoFilterDateGrouping
extLst          extLst
...            Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
BookView()

## End(Not run)

```

Border

Border

Description

Border positioning for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.borders.html>

Usage

```

Border(
    left = NULL,
    right = NULL,
    top = NULL,
    bottom = NULL,
    diagonal = NULL,
    diagonal_direction = NULL,
    vertical = NULL,
    horizontal = NULL,
    diagonalUp = FALSE,
    diagonalDown = FALSE,
    outline = TRUE,
    start = NULL,
    end = NULL,
    ...
)

```

Arguments

left	left
right	right
top	top
bottom	bottom
diagonal	diagonal
diagonal_direction	diagonal_direction
vertical	vertical
horizontal	horizontal
diagonalUp	diagonalUp
diagonalDown	diagonalDown
outline	outline
start	start
end	end
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Border()  
  
## End(Not run)
```

Break

Break

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.pagebreak.html>

Usage

```
Break(id = 0L, min = 0L, max = 16383L, man = TRUE, pt = NULL, ...)
```

Arguments

id	id
min	min
max	max
man	man
pt	pt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Break()  
  
## End(Not run)
```

BubbleChart

BubbleChart

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.bubble_chart.html

Usage

```
BubbleChart(  
    varyColors = NULL,  
    ser = list(),  
    dLbls = NULL,  
    bubble3D = NULL,  
    bubbleScale = NULL,  
    showNegBubbles = NULL,  
    sizeRepresents = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

varyColors	varyColors
ser	ser
dLbIs	dLbIs
bubble3D	bubble3D
bubbleScale	bubbleScale
showNegBubbles	showNegBubbles
sizeRepresents	sizeRepresents
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
BubbleChart()

## End(Not run)
```

builtin_format_code *builtin_format_code*

Description

Return one of the standard format codes by index.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.numbers.html>

Usage

```
builtin_format_code(index, ...)
```

Arguments

index	index
...	Additional arguments, i.e. kwargs.

Value

An character string.

Examples

```
## Not run:  
builtin_format_code(index = 2L)  
  
## End(Not run)
```

builtin_format_id	<i>builtin_format_id</i>
-------------------	--------------------------

Description

Return the id of a standard style.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.numbers.html>

Usage

```
builtin_format_id(fmt, ...)
```

Arguments

fmt	fmt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
builtin_format_id(fmt = NULL)  
  
## End(Not run)
```

CalcProperties	<i>CalcProperties</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.properties.html>

Usage

```
CalcProperties(
    calcId = 124519L,
    calcMode = NULL,
    fullCalcOnLoad = TRUE,
    refMode = NULL,
    iterate = NULL,
    iterateCount = NULL,
    iterateDelta = NULL,
    fullPrecision = NULL,
    calcCompleted = NULL,
    calcOnSave = NULL,
    concurrentCalc = NULL,
    concurrentManualCount = NULL,
    forceFullCalc = NULL,
    ...
)
```

Arguments

calcId	calcId
calcMode	calcMode
fullCalcOnLoad	fullCalcOnLoad
refMode	refMode
iterate	iterate
iterateCount	iterateCount
iterateDelta	iterateDelta
fullPrecision	fullPrecision
calcCompleted	calcCompleted
calcOnSave	calcOnSave
concurrentCalc	concurrentCalc
concurrentManualCount	concurrentManualCount
forceFullCalc	forceFullCalc
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CalcProperties()

## End(Not run)
```

Camera

Camera

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Camera(prst = NULL, fov = NULL, zoom = NULL, rot = NULL, ...)
```

Arguments

prst	prst
fov	fov
zoom	zoom
rot	rot
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Camera(prst = "perspectiveLeft")

## End(Not run)
```

cast_numeric	<i>cast_numeric</i>
--------------	---------------------

Description

Explicitly convert a string to a numeric value

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.inference.html>

Usage

```
cast_numeric(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An numeric value.

Examples

```
## Not run:  
cast_numeric(value = "1")  
  
## End(Not run)
```

cast_percentage	<i>cast_percentage</i>
-----------------	------------------------

Description

Explicitly convert a string to numeric value and format as a percentage

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.inference.html>

Usage

```
cast_percentage(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An numeric value.

Examples

```
## Not run:  
cast_percentage(value = "50%")  
  
## End(Not run)
```

cast_time

cast_time

Description

Explicitly convert a string to a number and format as datetime or time

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.inference.html>

Usage

```
cast_time(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An Python "datetime.time" object.

Examples

```
## Not run:  
cast_time(value = "00:00:01")  
  
## End(Not run)
```

Cell

Cell

Description

Describes cell associated properties.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.cell.html>

Usage

```
Cell(  
    worksheet,  
    row = NULL,  
    column = NULL,  
    value = NULL,  
    style_array = NULL,  
    ...  
)
```

Arguments

worksheet	worksheet
row	row
column	column
value	value
style_array	style_array
...	Additional arguments, i.e. kwargs.

Details

Properties of interest include style, type, value, and address.

Value

An openpyxl Python object.

Examples

```
## Not run:  
wb <- Workbook()  
ws <- ws$active  
Cell(worksheet = ws, row = 1L, column = 1L)  
  
## End(Not run)
```

CellIsRule

CellIsRule

Description

Conditional formatting rule based on cell contents.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
CellIsRule(  
    operator = NULL,  
    formula = list(),  
    stopIfTrue = NULL,  
    font = NULL,  
    border = NULL,  
    fill = NULL,  
    ...  
)
```

Arguments

operator	operator
formula	formula as list
stopIfTrue	stopIfTrue
font	font
border	border
fill	fill
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CellIsRule(operator = "equal")  
  
## End(Not run)
```

CellRange	<i>CellRange</i>
-----------	------------------

Description

Represents a range in a sheet: title and coordinates.

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.cell_range.html

Usage

```
CellRange(  
    range_string = NULL,  
    min_col = NULL,  
    min_row = NULL,  
    max_col = NULL,  
    max_row = NULL,  
    title = NULL,  
    ...  
)
```

Arguments

range_string	range_string
min_col	min_col
min_row	min_row
max_col	max_col
max_row	max_row
title	title
...	Additional arguments, i.e. kwargs.

Details

This object is used to perform operations on ranges, like: - shift, expand or shrink - union/intersection with another sheet range, We can check whether a range is: - equal or not equal to another, - disjoint of another, - contained in another. We can get: - the size of a range. - the range bounds (vertices) - the coordinates, - the string representation,

Value

An openpyxl Python object.

Examples

```
## Not run:
CellRange(range_string = "A1")

## End(Not run)
```

CellSmartTag

CellSmartTag

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.smart_tag.html

Usage

```
CellSmartTag(
    cellSmartTagPr = list(),
    type = NULL,
    deleted = FALSE,
    xmlBased = FALSE,
    ...
)
```

Arguments

cellSmartTagPr	cellSmartTagPr
type	type
deleted	deleted
xmlBased	xmlBased
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CellSmartTag(type = 1L)

## End(Not run)
```

CellSmartTagPr	<i>CellSmartTagPr</i>
----------------	-----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.smart_tag.html

Usage

```
CellSmartTagPr(key = NULL, val = NULL, ...)
```

Arguments

key	key
val	val
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CellSmartTagPr(key = "key", val = "val")

## End(Not run)
```

CellSmartTags	<i>CellSmartTags</i>
---------------	----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.smart_tag.html

Usage

```
CellSmartTags(cellSmartTag = list(), r = NULL, ...)
```

Arguments

cellSmartTag	cellSmartTag
r	r
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CellStyle(cellSmartTag = list(), r = "r")

## End(Not run)
```

CellStyle

CellStyle

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.cell_style.html

Usage

```
CellStyle(
    numFmtId = 0L,
    fontId = 0L,
    fillId = 0L,
    borderId = 0L,
    xfId = NULL,
    quotePrefix = NULL,
    pivotButton = NULL,
    applyNumberFormat = NULL,
    applyFont = NULL,
    applyFill = NULL,
    applyBorder = NULL,
    applyAlignment = NULL,
    applyProtection = NULL,
    alignment = NULL,
    protection = NULL,
    extLst = NULL,
    ...
)
```

Arguments

numFmtId	numFmtId
fontId	fontId
fillId	fillId
borderId	borderId

xfId	xfId
quotePrefix	quotePrefix
pivotButton	pivotButton
applyNumberFormat	applyNumberFormat
applyFont	applyFont
applyFill	applyFill
applyBorder	applyBorder
applyAlignment	applyAlignment
applyProtection	applyProtection
alignment	alignment
protection	protection
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CellStyle()

## End(Not run)
```

CellStyleList	<i>CellStyleList</i>
---------------	----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.cell_style.html

Usage

```
CellStyleList(count = NULL, xf = list(), ...)
```

Arguments

count	count
xf	xf
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CellStyleList()  
  
## End(Not run)
```

CellWatch

CellWatch

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.cell_watch.html

Usage

```
CellWatch(r = NULL, ...)
```

Arguments

<code>r</code>	<code>r</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CellWatch(r = "r")  
  
## End(Not run)
```

CellWatches

CellWatches

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.cell_watch.html

Usage

```
CellWatches(cellWatch = list(), ...)
```

Arguments

cellWatch	cellWatch
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CellWatches()  
  
## End(Not run)
```

CharacterProperties

CharacterProperties

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
CharacterProperties(  
    kumimoji = NULL,  
    lang = NULL,  
    altLang = NULL,  
    sz = NULL,  
    b = NULL,  
    i = NULL,  
    u = NULL,  
    strike = NULL,
```

```

kern = NULL,
cap = NULL,
spc = NULL,
normalizeH = NULL,
baseline = NULL,
noProof = NULL,
dirty = NULL,
err = NULL,
smtClean = NULL,
smtId = NULL,
bmk = NULL,
ln = NULL,
highlight = NULL,
latin = NULL,
ea = NULL,
cs = NULL,
sym = NULL,
hlinkClick = NULL,
hlinkMouseOver = NULL,
rtl = NULL,
extLst = NULL,
noFill = NULL,
solidFill = NULL,
gradFill = NULL,
blipFill = NULL,
pattFill = NULL,
grpFill = NULL,
effectLst = NULL,
effectDag = NULL,
uLnTx = NULL,
uLn = NULL,
uFillTx = NULL,
uFill = NULL,
...
)

```

Arguments

kumimoji	kumimoji
lang	lang
altLang	altLang
sz	sz
b	b
i	i
u	u
strike	strike

kern	kern
cap	cap
spc	spc
normalizeH	normalizeH
baseline	baseline
noProof	noProof
dirty	dirty
err	err
smtClean	smtClean
smtId	smtId
bmK	bmK
ln	ln
highlight	highlight
latin	latin
ea	ea
cs	cs
sym	sym
hlinkClick	hlinkClick
hlinkMouseOver	hlinkMouseOver
rtl	rtl
extLst	extLst
noFill	noFill
solidFill	solidFill
gradFill	gradFill
blipFill	blipFill
pattFill	pattFill
grpFill	grpFill
effectLst	effectLst
effectDag	effectDag
uLnTx	uLnTx
uLn	uLn
uFillTx	uFillTx
uFill	uFill
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CharacterProperties()

## End(Not run)
```

ChartContainer

ChartContainer

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.chartspace.html>

Usage

```
ChartContainer(
  title = NULL,
  autoTitleDeleted = NULL,
  pivotFmts = list(),
  view3D = NULL,
  floor = NULL,
  sideWall = NULL,
  backWall = NULL,
  plotArea = NULL,
  legend = NULL,
  plotVisOnly = TRUE,
  dispBlanksAs = "gap",
  showDLblsOverMax = NULL,
  extLst = NULL,
  ...
)
```

Arguments

title	title
autoTitleDeleted	autoTitleDeleted
pivotFmts	pivotFmts
view3D	view3D
floor	floor
sideWall	sideWall
backWall	backWall
plotArea	plotArea
legend	legend

plotVisOnly	plotVisOnly
dispBlanksAs	dispBlanksAs
showDLblsOverMax	showDLblsOverMax
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartContainer()

## End(Not run)
```

ChartLines

ChartLines

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
ChartLines(spPr = NULL, ...)
```

Arguments

spPr	spPr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartLines()

## End(Not run)
```

 ChartRelation

ChartRelation

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.relation.html>

Usage

```
ChartRelation(id, ...)
```

Arguments

id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartRelation(id = "id")

## End(Not run)
```

 Chartsheet

Chartsheet

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.chartsheet.html>

Usage

```
Chartsheet(
    sheetPr = NULL,
    sheetViews = NULL,
    sheetProtection = NULL,
    customSheetViews = NULL,
    pageMargins = NULL,
    pageSetup = NULL,
    headerFooter = NULL,
    drawing = NULL,
```

```

drawingHF = NULL,
picture = NULL,
webPublishItems = NULL,
extLst = NULL,
parent = NULL,
title = "",
sheet_state = "visible",
...
)

```

Arguments

sheetPr	sheetPr
sheetViews	sheetViews
sheetProtection	sheetProtection
customSheetViews	customSheetViews
pageMargins	pageMargins
pageSetup	pageSetup
headerFooter	headerFooter
drawing	drawing
drawingHF	drawingHF
picture	picture
webPublishItems	webPublishItems
extLst	extLst
parent	parent
title	title
sheet_state	sheet_state
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
Chartsheet()

## End(Not run)

```

ChartsheetProperties *ChartsheetProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.properties.html>

Usage

```
ChartsheetProperties(published = NULL, codeName = NULL, tabColor = NULL, ...)
```

Arguments

published	published
codeName	codeName
tabColor	tabColor
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ChartsheetProperties()  
  
## End(Not run)
```

ChartsheetProtection *ChartsheetProtection*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.protection.html>

Usage

```

ChartsheetProtection(
    content = NULL,
    objects = NULL,
    hashValue = NULL,
    spinCount = NULL,
    saltValue = NULL,
    algorithmName = NULL,
    password = NULL,
    ...
)

```

Arguments

content	content
objects	objects
hashValue	hashValue
spinCount	spinCount
saltValue	saltValue
algorithmName	algorithmName
password	password
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
ChartsheetProtection()

## End(Not run)

```

ChartsheetView

ChartsheetView

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.views.html>

Usage

```
ChartsheetView(
    tabSelected = NULL,
    zoomScale = NULL,
    workbookViewId = 0L,
    zoomToFit = TRUE,
    extLst = NULL,
    ...
)
```

Arguments

tabSelected	tabSelected
zoomScale	zoomScale
workbookViewId	workbookViewId
zoomToFit	zoomToFit
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartsheetView()

## End(Not run)
```

ChartsheetViewList *ChartsheetViewList*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.views.html>

Usage

```
ChartsheetViewList(sheetView = NULL, extLst = NULL, ...)
```

Arguments

sheetView	sheetView
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartsheetViewList()

## End(Not run)
```

 ChartSpace

ChartSpace

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.chartspace.html>

Usage

```
ChartSpace(
    date1904 = NULL,
    lang = NULL,
    roundedCorners = NULL,
    style = NULL,
    clrMapOvr = NULL,
    pivotSource = NULL,
    protection = NULL,
    chart = NULL,
    spPr = NULL,
    txPr = NULL,
    externalData = NULL,
    printSettings = NULL,
    userShapes = NULL,
    extLst = NULL,
    ...
)
```

Arguments

date1904	date1904
lang	lang
roundedCorners	roundedCorners
style	style
clrMapOvr	clrMapOvr
pivotSource	pivotSource

protection	protection
chart	chart
spPr	spPr
txPr	txPr
externalData	externalData
printSettings	printSettings
userShapes	userShapes
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ChartSpace(chart = ChartContainer())

## End(Not run)
```

cm_to_dxa

cm_to_dxa

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
cm_to_dxa(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:
cm_to_dxa(value = 1L)

## End(Not run)
```

cm_to_EMU	<i>cm_to_EMU</i>
-----------	------------------

Description

1 cm = 360000 EMUs

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
cm_to_EMU(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:
cm_to_EMU(value = 1L)

## End(Not run)
```

ColBreak	<i>ColBreak</i>
----------	-----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.pagebreak.html>

Usage

```
ColBreak(count = NULL, manualBreakCount = NULL, brk = list(), ...)
```

Arguments

count	count
manualBreakCount	manualBreakCount
brk	brk
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ColBreak()

## End(Not run)
```

Color

Color

Description

Named colors for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.colors.html>

Usage

```
Color(
    rgb = "00000000",
    indexed = NULL,
    auto = NULL,
    theme = NULL,
    tint = 0,
    index = NULL,
    type = "rgb",
    ...
)
```

Arguments

rgb	rgb
indexed	indexed
auto	auto
theme	theme
tint	tint
index	index
type	type
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Color()

## End(Not run)
```

ColorChangeEffect *ColorChangeEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
ColorChangeEffect(useA = NULL, clrFrom = NULL, clrTo = NULL, ...)
```

Arguments

useA	useA
clrFrom	clrFrom
clrTo	clrTo
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
# issue using xlcharts::Color() function as built from
# class 'openpyxl.styles.colors.Color' while
# ColorChangeEffect() arguments require 'openpyxl.drawing.effect.Color'
openpyxl <- reticulate::import("openpyxl")
ColorChangeEffect(
  clrFrom = openpyxl$drawing$effect$Color(),
  clrTo = openpyxl$drawing$effect$Color()
)

## End(Not run)
```

ColorChoice

ColorChoice

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.colors.html>

Usage

```
ColorChoice(  
    scrgbClr = NULL,  
    srgbClr = NULL,  
    hslClr = NULL,  
    sysClr = NULL,  
    schemeClr = NULL,  
    prstClr = NULL,  
    ...  
)
```

Arguments

scrgbClr	scrgbClr
srgbClr	srgbClr
hslClr	hslClr
sysClr	sysClr
schemeClr	schemeClr
prstClr	prstClr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ColorChoice()  
  
## End(Not run)
```

 ColorFilter

ColorFilter

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
ColorFilter(dxId = NULL, cellColor = NULL, ...)
```

Arguments

dxId	dxId
cellColor	cellColor
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ColorFilter()

## End(Not run)
```

 ColorList

ColorList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.colors.html>

Usage

```
ColorList(indexedColors = list(), mruColors = list(), ...)
```

Arguments

indexedColors	indexedColors
mruColors	mruColors
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ColorList()  
  
## End(Not run)
```

ColorMapping

ColorMapping

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.colors.html>

Usage

```
ColorMapping(  
    bg1 = "lt1",  
    tx1 = "dk1",  
    bg2 = "lt2",  
    tx2 = "dk2",  
    accent1 = "accent1",  
    accent2 = "accent2",  
    accent3 = "accent3",  
    accent4 = "accent4",  
    accent5 = "accent5",  
    accent6 = "accent6",  
    hlink = "hlink",  
    folHlink = "folHlink",  
    extLst = NULL,  
    ...  
)
```

Arguments

bg1	bg1
tx1	tx1
bg2	bg2
tx2	tx2
accent1	accent1
accent2	accent2

accent3	accent3
accent4	accent4
accent5	accent5
accent6	accent6
hlink	hlink
folHlink	folHlink
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ColorMapping()

## End(Not run)
```

ColorReplaceEffect	<i>ColorReplaceEffect</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
ColorReplaceEffect(...)
```

Arguments

...	Additional arguments, i.e. kwargs.
-----	------------------------------------

Value

An openpyxl Python object.

Examples

```
## Not run:
ColorReplaceEffect()

## End(Not run)
```

 ColorScale

ColorScale

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
ColorScale(cfvo = NULL, color = NULL, ...)
```

Arguments

cfvo	cfvo
color	color
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
first <- FormatObject(type = 'min')
last <- FormatObject(type = 'max')
# colors match the format objects:
colors <- list(Color('AA0000'), Color('00AA00'))
cs2 <- ColorScale(cfvo = list(first, last), color = colors)

## End(Not run)
```

 ColorScaleRule

ColorScaleRule

Description

Backwards compatibility

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
ColorScaleRule(  
    start_type = NULL,  
    start_value = NULL,  
    start_color = NULL,  
    mid_type = NULL,  
    mid_value = NULL,  
    mid_color = NULL,  
    end_type = NULL,  
    end_value = NULL,  
    end_color = NULL,  
    ...  
)
```

Arguments

start_type	start_type
start_value	start_value
start_color	start_color
mid_type	mid_type
mid_value	mid_value
mid_color	mid_color
end_type	end_type
end_value	end_value
end_color	end_color
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ColorScaleRule(  
    start_type='percentile', start_value=10, start_color='FFAA0000',  
    mid_type='percentile', mid_value=50, mid_color='FF0000AA',  
    end_type='percentile', end_value=90, end_color='FF00AA00')  
  
## End(Not run)
```

 ColRange

ColRange

Description

Represent a range of at least one column

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.print_settings.html

Usage

```
ColRange(range_string = NULL, min_col = NULL, max_col = NULL, ...)
```

Arguments

range_string	range_string
min_col	min_col
max_col	max_col
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ColRange(range_string = "A:B")

## End(Not run)
```

 ColumnDimension

ColumnDimension

Description

Information about the display properties of a column.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```
ColumnDimension(  
    worksheet,  
    index = "A",  
    width = 13L,  
    bestFit = FALSE,  
    hidden = FALSE,  
    outlineLevel = 0L,  
    outline_level = NULL,  
    collapsed = FALSE,  
    style = NULL,  
    min = NULL,  
    max = NULL,  
    customWidth = FALSE,  
    visible = NULL,  
    auto_size = NULL,  
    ...  
)
```

Arguments

worksheet	worksheet
index	index
width	width
bestFit	bestFit
hidden	hidden
outlineLevel	outlineLevel
outline_level	outline_level
collapsed	collapsed
style	style
min	min
max	max
customWidth	customWidth
visible	visible
auto_size	auto_size
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
wb <- Workbook()  
ws <- wb$active  
ColumnDimension(worksheet = ws)  
  
## End(Not run)
```

```
column_index_from_string  
      column_index_from_string
```

Description

Convert a column name into a numerical index

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
column_index_from_string(str_col, ...)
```

Arguments

str_col	str_col
...	Additional arguments, i.e. kwargs.

Details

('A' -> 1)

Value

A numeric value.

Examples

```
## Not run:  
column_index_from_string(str_col = "A")  
  
## End(Not run)
```

Comment	<i>Comment</i>
---------	----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.comments.comments.html>

Usage

```
Comment(text, author, height = 79L, width = 144L, ...)
```

Arguments

text	text
author	author
height	height
width	width
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Comment(text = "text", author = "author")  
  
## End(Not run)
```

CommentRecord	<i>CommentRecord</i>
---------------	----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.comments.comment_sheet.html

Usage

```
CommentRecord(  
    ref = "",  
    authorId = 0L,  
    guid = NULL,  
    shapeId = 0L,  
    text = NULL,  
    commentPr = NULL,  
    author = NULL,  
    height = 79L,  
    width = 144L,  
    ...  
)
```

Arguments

ref	ref
authorId	authorId
guid	guid
shapeId	shapeId
text	text
commentPr	commentPr
author	author
height	height
width	width
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CommentRecord()  
  
## End(Not run)
```

CommentSheet	<i>CommentSheet</i>
--------------	---------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.comments.comment_sheet.html

Usage

```
CommentSheet(authors = NULL, commentList = list(), extLst = NULL, ...)
```

Arguments

authors	authors
commentList	commentList
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CommentSheet(  
    authors = AuthorList(author = c("author1", "author2"))  
)  
  
## End(Not run)
```

ConditionalFormatting	<i>ConditionalFormatting</i>
-----------------------	------------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.formatting.html>

Usage

```
ConditionalFormatting(  
    sqref = list(),  
    pivot = NULL,  
    cfRule = list(),  
    extLst = NULL,  
    ...  
)
```

Arguments

sqref	sqref
pivot	pivot
cfRule	cfRule
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ConditionalFormatting()

## End(Not run)
```

ConditionalFormattingList
ConditionalFormattingList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.formatting.html>

Usage

```
ConditionalFormattingList(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ConditionalFormattingList()

## End(Not run)
```

Connection	<i>Connection</i>
------------	-------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.connector.html>

Usage

```
Connection(id = NULL, idx = NULL, ...)
```

Arguments

id	id
idx	idx
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Connection(id = 1L, idx = 1L)  
  
## End(Not run)
```

ConnectionSite	<i>ConnectionSite</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
ConnectionSite(ang = NULL, pos = NULL, ...)
```

Arguments

ang	ang
pos	pos
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ConnectionSite(ang = 1.5, pos = AdjPoint2D(x = 1L, y = 2L))  
  
## End(Not run)
```

ConnectionSiteList	<i>ConnectionSiteList</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
ConnectionSiteList(cxn = NULL, ...)
```

Arguments

cxn	cxn
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ConnectionSiteList()  
  
## End(Not run)
```

ConnectorLocking	<i>ConnectorLocking</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.connector.html>

Usage

```
ConnectorLocking(extLst = NULL, ...)
```

Arguments

extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ConnectorLocking()

## End(Not run)
```

Control	<i>Control</i>
---------	----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.controls.html>

Usage

```
Control(controlPr = NULL, shapeId = NULL, name = NULL, ...)
```

Arguments

controlPr	controlPr
shapeId	shapeId
name	name
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

An openpyxl Python object.

Examples

```
## Not run:
Control(
    controlPr = ControlProperty(
        anchor = ObjectAnchor(from = AnchorMarker(), to = AnchorMarker())
    ),
    shapeId = 1L
)

## End(Not run)
```

ControlProperty

ControlProperty

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.controls.html>

Usage

```
ControlProperty(
    anchor = NULL,
    locked = TRUE,
    defaultSize = TRUE,
    print = TRUE,
    disabled = FALSE,
    recalcAlways = FALSE,
    uiObject = FALSE,
    autoFill = TRUE,
    autoLine = TRUE,
    autoPict = TRUE,
    macro = NULL,
    altText = NULL,
    linkedCell = NULL,
    listFillRange = NULL,
    cf = "pict",
    id = NULL,
    ...
)
```

Arguments

anchor	anchor
locked	locked
defaultSize	defaultSize
print	_print
disabled	disabled
recalcAlways	recalcAlways
uiObject	uiObject
autoFill	autoFill
autoLine	autoLine
autoPict	autoPict
macro	macro
altText	altText
linkedCell	linkedCell
listFillRange	listFillRange
cf	cf
id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ControlProperty(
    anchor = ObjectAnchor(from = AnchorMarker(), to = AnchorMarker())
)

## End(Not run)
```

Controls

Controls

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.controls.html>

Usage

```
Controls(control = list(), ...)
```

Arguments

control control
... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Controls()  
  
## End(Not run)
```

coordinate_from_string
coordinate_from_string

Description

Convert a coordinate string like 'B12' to a list ('B', 12)

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
coordinate_from_string(coord_string, ...)
```

Arguments

coord_string coord_string
... Additional arguments, i.e. kwargs.

Value

A list.

Examples

```
## Not run:  
coordinate_from_string(coord_string = "A1")  
  
## End(Not run)
```

coordinate_to_tuple *coordinate_to_tuple*

Description

Convert an Excel style coordinate to (row, column) list

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
coordinate_to_tuple(coordinate, ...)
```

Arguments

coordinate	coordinate
...	Additional arguments, i.e. kwargs.

Value

A list.

Examples

```
## Not run:
coordinate_to_tuple(coordinate = "A1")

## End(Not run)
```

CustomFilter *CustomFilter*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
CustomFilter(operator = NULL, val = NULL, ...)
```

Arguments

operator	operator
val	val
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CustomFilter(operator = "equal", val = 1L)

## End(Not run)
```

CustomFilters

CustomFilters

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
CustomFilters(and = FALSE, customFilter = list(), ...)
```

Arguments

and	_and
customFilter	customFilter
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CustomFilters()

## End(Not run)
```

CustomGeometry2D

CustomGeometry2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
CustomGeometry2D(  
    avLst = NULL,  
    gdLst = NULL,  
    ahLst = NULL,  
    cxnLst = NULL,  
    rect = NULL,  
    pathLst = NULL,  
    ...  
)
```

Arguments

avLst	avLst
gdLst	gdLst
ahLst	ahLst
cxnLst	cxnLst
rect	rect
pathLst	pathLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
CustomGeometry2D(pathLst = Path2DList())  
  
## End(Not run)
```

CustomProperties *CustomProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.custom.html>

Usage

```
CustomProperties(customPr = list(), ...)
```

Arguments

customPr	customPr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CustomProperties()

## End(Not run)
```

CustomProperty *CustomProperty*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.custom.html>

Usage

```
CustomProperty(name = NULL, ...)
```

Arguments

name	name
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
CustomProperty(name = "name")

## End(Not run)
```

CustomSplit

CustomSplit

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pie_chart.html

Usage

```
CustomSplit(secondPiePt = list(), ...)
```

Arguments

```
secondPiePt    secondPiePt
...            Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:
CustomSplit()

## End(Not run)
```

DashStop

DashStop

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.line.html>

Usage

```
DashStop(d = 0L, sp = 0L, ...)
```

Arguments

d	d
sp	sp
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DashStop()

## End(Not run)
```

DashStopList

DashStopList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.line.html>

Usage

```
DashStopList(ds = list(), ...)
```

Arguments

ds	ds
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DashStopList()

## End(Not run)
```

DataBar

DataBar

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
DataBar(  
    minLength = NULL,  
    maxLength = NULL,  
    showValue = NULL,  
    cfvo = NULL,  
    color = NULL,  
    ...  
)
```

Arguments

<code>minLength</code>	<code>minLength</code>
<code>maxLength</code>	<code>maxLength</code>
<code>showValue</code>	<code>showValue</code>
<code>cfvo</code>	<code>cfvo</code>
<code>color</code>	<code>color</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
first <- FormatObject(type='min')  
second <- FormatObject(type='max')  
DataBar(cfvo = list(first, second), color = "638EC6")  
  
## End(Not run)
```

DataBarRule	<i>DataBarRule</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
DataBarRule(
    start_type = NULL,
    start_value = NULL,
    end_type = NULL,
    end_value = NULL,
    color = NULL,
    showValue = NULL,
    minLength = NULL,
    maxLength = NULL,
    ...
)
```

Arguments

start_type	start_type
start_value	start_value
end_type	end_type
end_value	end_value
color	color
showValue	showValue
minLength	minLength
maxLength	maxLength
...	Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:
DataBarRule(start_type='percentile', start_value=10, end_type='percentile', end_value='90',
color="FF638EC6", showValue= NULL, minLength=NULL, maxLength=NULL)

## End(Not run)
```

DataLabel

DataLabel

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.label.html>

Usage

```
DataLabel(idx = 0L, ...)
```

Arguments

idx	idx
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DataLabel()

## End(Not run)
```

DataLabelList

DataLabelList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.label.html>

Usage

```
DataLabelList(dLbl = list(), delete = NULL, ...)
```

Arguments

dLbl	dLbl
delete	delete
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DataLabelList()

## End(Not run)
```

DataPoint

DataPoint

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.marker.html>

Usage

```
DataPoint(
    idx = NULL,
    invertIfNegative = NULL,
    marker = NULL,
    bubble3D = NULL,
    explosion = NULL,
    spPr = NULL,
    pictureOptions = NULL,
    extLst = NULL,
    ...
)
```

Arguments

idx	idx
invertIfNegative	invertIfNegative
marker	marker
bubble3D	bubble3D
explosion	explosion
spPr	spPr
pictureOptions	pictureOptions
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DataPoint(idx = 1L)

## End(Not run)
```

<i>DataTable</i>	<i>DataTable</i>
------------------	------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.plotarea.html>

Usage

```
DataTable(
  showHorzBorder = NULL,
  showVertBorder = NULL,
  showOutline = NULL,
  showKeys = NULL,
  spPr = NULL,
  txPr = NULL,
  extLst = NULL,
  ...
)
```

Arguments

- showHorzBorder showHorzBorder
- showVertBorder showVertBorder
- showOutline showOutline
- showKeys showKeys
- spPr spPr
- txPr txPr
- extLst extLst
- ... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DataTable()

## End(Not run)
```

DataTableFormula	<i>DataTableFormula</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.formula.html>

Usage

```
DataTableFormula(
    ref,
    ca = FALSE,
    dt2D = FALSE,
    dtr = FALSE,
    r1 = NULL,
    r2 = NULL,
    del1 = FALSE,
    del2 = FALSE,
    ...
)
```

Arguments

ref	ref
ca	ca
dt2D	dt2D
dtr	dtr
r1	r1
r2	r2
del1	del1
del2	del2
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DataTableFormula(ref = "A1")  
  
## End(Not run)
```

DataValidation

DataValidation

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.datavalidation.html>

Usage

```
DataValidation(  
  type = NULL,  
  formula1 = NULL,  
  formula2 = NULL,  
  showErrorMessage = FALSE,  
  showInputMessage = FALSE,  
  showDropDown = FALSE,  
  allowBlank = FALSE,  
  sqref = list(),  
  promptTitle = NULL,  
  errorStyle = NULL,  
  error = NULL,  
  prompt = NULL,  
  errorTitle = NULL,  
  imeMode = NULL,  
  operator = NULL,  
  allow_blank = FALSE,  
  ...  
)
```

Arguments

type	type
formula1	formula1
formula2	formula2
showErrorMessage	showErrorMessage
showInputMessage	showInputMessage

showDropDown	showDropDown
allowBlank	allowBlank
sqref	sqref
promptTitle	promptTitle
errorStyle	errorStyle
error	error
prompt	prompt
errorTitle	errorTitle
imeMode	imeMode
operator	operator
allow_blank	allow_blank
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DataValidation()

## End(Not run)
```

DataValidationList	<i>DataValidationList</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.datavalidation.html>

Usage

```
DataValidationList(
    disablePrompts = NULL,
    xWindow = NULL,
    yWindow = NULL,
    count = NULL,
    dataValidation = list(),
    ...
)
```

Arguments

disablePrompts	disablePrompts
xWindow	xWindow
yWindow	yWindow
count	count
dataValidation	dataValidation
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DataValidationList()  
  
## End(Not run)
```

DateAxis

DateAxis

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
DateAxis(  
    auto = NULL,  
    lblOffset = NULL,  
    baseTimeUnit = NULL,  
    majorUnit = NULL,  
    majorTimeUnit = NULL,  
    minorUnit = NULL,  
    minorTimeUnit = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

auto	auto
lblOffset	lblOffset
baseTimeUnit	baseTimeUnit
majorUnit	majorUnit
majorTimeUnit	majorTimeUnit
minorUnit	minorUnit
minorTimeUnit	minorTimeUnit
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DateAxis()

## End(Not run)
```

DateGroupItem	<i>DateGroupItem</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
DateGroupItem(
    year = NULL,
    month = NULL,
    day = NULL,
    hour = NULL,
    minute = NULL,
    second = NULL,
    dateTimeGrouping = NULL,
    ...
)
```

Arguments

year	year
month	month
day	day
hour	hour
minute	minute
second	second
dateTimeGrouping	dateTimeGrouping
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DateGroupItem(year = 2024, dateTimeGrouping = "year")

## End(Not run)
```

 deepcopy

Deep copy operation from deepcopy Python module

Description

<https://docs.python.org/3/library/copy.html>

Usage

```
deepcopy(x, memo = NULL, nil = c())
```

Arguments

x	x
memo	memo
nil	_nil

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
deecopy(wb)

## End(Not run)
```

DefinedName	<i>DefinedName</i>
-------------	--------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.defined_name.html

Usage

```
DefinedName(
  name = NULL,
  comment = NULL,
  customMenu = NULL,
  description = NULL,
  help = NULL,
  statusBar = NULL,
  localSheetId = NULL,
  hidden = NULL,
  vbProcedure = NULL,
  xlm = NULL,
  functionGroupId = NULL,
  shortcutKey = NULL,
  publishToServer = NULL,
  workbookParameter = NULL,
  attr_text = NULL,
  ...
)
```

Arguments

name	name
comment	comment
customMenu	customMenu
description	description
help	help
statusBar	statusBar
localSheetId	localSheetId

hidden	hidden
vbProcedure	vbProcedure
xlm	xlm
functionGroupId	functionGroupId
shortcutKey	shortcutKey
publishToServer	publishToServer
workbookParameter	workbookParameter
attr_text	attr_text
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DefinedName(name = "name")

## End(Not run)
```

DefinedNameList	<i>DefinedNameList</i>
-----------------	------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.defined_name.html

Usage

```
DefinedNameList(definedName = list(), ...)
```

Arguments

definedName	definedName
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DefinedNameList()  
  
## End(Not run)
```

degrees_to_angle	<i>degrees_to_angle</i>
------------------	-------------------------

Description

1 degree = 60000 angles

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
degrees_to_angle(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:  
degrees_to_angle(value = 1)  
  
## End(Not run)
```

DifferentialStyle *DifferentialStyle*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.differential.html>

Usage

```
DifferentialStyle(  
    font = NULL,  
    numFmt = NULL,  
    fill = NULL,  
    alignment = NULL,  
    border = NULL,  
    protection = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

font	font
numFmt	numFmt
fill	fill
alignment	alignment
border	border
protection	protection
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DifferentialStyle()  
  
## End(Not run)
```

DifferentialStyleList *DifferentialStyleList*

Description

Dedupable container for differential styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.differential.html>

Usage

DifferentialStyleList(dxfs = list(), count = NULL, ...)

Arguments

dxfs	dxfs
count	count
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
DifferentialStyleList()

## End(Not run)
```

Dimension

Dimension

Description

Information about the display properties of a row or column.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```

Dimension(
    index,
    hidden,
    outlineLevel,
    collapsed,
    worksheet,
    visible = TRUE,
    style = NULL,
    ...
)

```

Arguments

index	index
hidden	hidden
outlineLevel	outlineLevel
collapsed	collapsed
worksheet	worksheet
visible	visible
style	style
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
Dimension(index = 1L, hidden = NULL,
outlineLevel = NULL, collapsed = NULL, worksheet = NULL)

## End(Not run)

```

DimensionHolder

DimensionHolder

Description

Allow columns to be grouped

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```
DimensionHolder(worksheet, reference = "index", default_factory = NULL, ...)
```

Arguments

worksheet	worksheet
reference	reference
default_factory	default_factory
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ws <- wb$active
DimensionHolder(worksheet = ws)

## End(Not run)
```

DisplayUnitsLabel	<i>DisplayUnitsLabel</i>
-------------------	--------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
DisplayUnitsLabel(layout = NULL, tx = NULL, spPr = NULL, txPr = NULL, ...)
```

Arguments

layout	layout
tx	tx
spPr	spPr
txPr	txPr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DisplayUnitsLabel()  
  
## End(Not run)
```

DisplayUnitsLabelList *DisplayUnitsLabelList*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
DisplayUnitsLabelList(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DisplayUnitsLabelList()  
  
## End(Not run)
```

DocumentProperties *DocumentProperties*

Description

High-level properties of the document.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.packaging.core.html>

Usage

```

DocumentProperties(
  category = NULL,
  contentStatus = NULL,
  keywords = NULL,
  lastModifiedBy = NULL,
  lastPrinted = NULL,
  revision = NULL,
  version = NULL,
  created = NULL,
  creator = "openpyxl",
  description = NULL,
  identifier = NULL,
  language = NULL,
  modified = NULL,
  subject = NULL,
  title = NULL,
  ...
)

```

Arguments

category	category
contentStatus	contentStatus
keywords	keywords
lastModifiedBy	lastModifiedBy
lastPrinted	lastPrinted
revision	revision
version	version
created	created
creator	creator
description	description
identifier	identifier
language	language
modified	modified
subject	subject
title	title
...	Additional arguments, i.e. kwargs.

Details

Defined in ECMA-376 Par2 Annex D

Value

An openpyxl Python object.

Examples

```
## Not run:  
DocumentProperties()  
  
## End(Not run)
```

DocumentSecurity	<i>DocumentSecurity</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.protection.html>

Usage

```
DocumentSecurity(  
    workbookPassword = NULL,  
    workbookPasswordCharacterSet = NULL,  
    revisionsPassword = NULL,  
    revisionsPasswordCharacterSet = NULL,  
    lockStructure = NULL,  
    lockWindows = NULL,  
    lockRevision = NULL,  
    revisionsAlgorithmName = NULL,  
    revisionsHashValue = NULL,  
    revisionsSaltValue = NULL,  
    revisionsSpinCount = NULL,  
    workbookAlgorithmName = NULL,  
    workbookHashValue = NULL,  
    workbookSaltValue = NULL,  
    workbookSpinCount = NULL,  
    ...  
)
```

Arguments

workbookPassword	workbookPassword
workbookPasswordCharacterSet	workbookPasswordCharacterSet
revisionsPassword	revisionsPassword

```

revisionsPasswordCharacterSet
    revisionsPasswordCharacterSet
lockStructure lockStructure
lockWindows lockWindows
lockRevision lockRevision
revisionsAlgorithmName
    revisionsAlgorithmName
revisionsHashValue
    revisionsHashValue
revisionsSaltValue
    revisionsSaltValue
revisionsSpinCount
    revisionsSpinCount
workbookAlgorithmName
    workbookAlgorithmName
workbookHashValue
    workbookHashValue
workbookSaltValue
    workbookSaltValue
workbookSpinCount
    workbookSpinCount
... Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
DocumentSecurity()

## End(Not run)

```

DoughnutChart

DoughnutChart

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pie_chart.html

Usage

```
DoughnutChart(firstSliceAng = 0L, holeSize = 10L, extLst = NULL, ...)
```

Arguments

firstSliceAng	firstSliceAng
holeSize	holeSize
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DoughnutChart()  
  
## End(Not run)
```

Drawing

Drawing

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.drawing.html>

Usage

```
Drawing(id = NULL, ...)
```

Arguments

id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Drawing()  
  
## End(Not run)
```

DrawingHF

DrawingHF

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.relation.html>

Usage

```
DrawingHF(  
    id = NULL,  
    lho = NULL,  
    lhe = NULL,  
    lhf = NULL,  
    cho = NULL,  
    che = NULL,  
    chf = NULL,  
    rho = NULL,  
    rhe = NULL,  
    rhf = NULL,  
    lfo = NULL,  
    lfe = NULL,  
    lff = NULL,  
    cfo = NULL,  
    cfe = NULL,  
    cff = NULL,  
    rfo = NULL,  
    rfe = NULL,  
    rff = NULL,  
    ...  
)
```

Arguments

id	id
lho	lho
lhe	lhe
lhf	lhf
cho	cho
che	che
chf	chf
rho	rho
rhe	rhe
rhf	rhf

lfo	lfo
lfe	lfe
lff	lff
cfo	cfo
cfe	cfe
cff	cff
rfo	rfo
rfe	rfe
rff	rff
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DrawingHF()  
  
## End(Not run)
```

DummyWorksheet

DummyWorksheet

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.reference.html>

Usage

```
DummyWorksheet(title, ...)
```

Arguments

title	title
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DummyWorksheet(title = "title")  
  
## End(Not run)
```

DuotoneEffect	<i>DuotoneEffect</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
DuotoneEffect(...)
```

Arguments

```
... Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
DuotoneEffect()  
  
## End(Not run)
```

dxa_to_cm	<i>dxa_to_cm</i>
-----------	------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
dxa_to_cm(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
dxa_to_cm(value = 1L)

## End(Not run)
```

DynamicFilter

DynamicFilter

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
DynamicFilter(
    type = NULL,
    val = NULL,
    valIso = NULL,
    maxVal = NULL,
    maxValIso = NULL,
    ...
)
```

Arguments

type	type
val	val
valIso	valIso
maxVal	maxVal
maxValIso	maxValIso
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
DynamicFilter(type = "thisWeek")  
  
## End(Not run)
```

EffectContainer	<i>EffectContainer</i>
-----------------	------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
EffectContainer(type = NULL, name = NULL, ...)
```

Arguments

type	type
name	name
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
EffectContainer(type = "sib")  
  
## End(Not run)
```

EffectList

EffectList

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
EffectList(  
    blur = NULL,  
    fillOverlay = NULL,  
    glow = NULL,  
    innerShdw = NULL,  
    outerShdw = NULL,  
    prstShdw = NULL,  
    reflection = NULL,  
    softEdge = NULL,  
    ...  
)
```

Arguments

blur	blur
fillOverlay	fillOverlay
glow	glow
innerShdw	innerShdw
outerShdw	outerShdw
prstShdw	prstShdw
reflection	reflection
softEdge	softEdge
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
EffectList()  
  
## End(Not run)
```

EmbeddedWAVAudioFile *EmbeddedWAVAudioFile*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
EmbeddedWAVAudioFile(name = NULL, ...)
```

Arguments

name	name
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
EmbeddedWAVAudioFile()

## End(Not run)
```

EmptyCell *EmptyCell*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.read_only.html

Usage

```
EmptyCell(...)
```

Arguments

...	Additional arguments, i.e. kwargs.
-----	------------------------------------

Value

An openpyxl Python object.

Examples

```
## Not run:  
EmptyCell()  
  
## End(Not run)
```

EMU_to_cm

EMU_to_cm

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
EMU_to_cm(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
EMU_to_cm(value = 100L)  
  
## End(Not run)
```

EMU_to_inch

EMU_to_inch

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
EMU_to_inch(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
EMU_to_inch(value = 100L)  
  
## End(Not run)
```

EMU_to_pixels	<i>EMU_to_pixels</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
EMU_to_pixels(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
EMU_to_pixels(value = 10000L)  
  
## End(Not run)
```

ErrorBars

ErrorBars

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.error_bar.html

Usage

```
ErrorBars(  
    errDir = NULL,  
    errBarType = "both",  
    errValType = "fixedVal",  
    noEndCap = NULL,  
    plus = NULL,  
    minus = NULL,  
    val = NULL,  
    spPr = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

<code>errDir</code>	<code>errDir</code>
<code>errBarType</code>	<code>errBarType</code>
<code>errValType</code>	<code>errValType</code>
<code>noEndCap</code>	<code>noEndCap</code>
<code>plus</code>	<code>plus</code>
<code>minus</code>	<code>minus</code>
<code>val</code>	<code>val</code>
<code>spPr</code>	<code>spPr</code>
<code>extLst</code>	<code>extLst</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ErrorBars()  
  
## End(Not run)
```

ExcelReader

ExcelReader

Description

Read an Excel package and dispatch the contents to the relevant modules

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.reader.excel.html>

Usage

```
ExcelReader(  
    fn,  
    read_only = FALSE,  
    keep_vba = FALSE,  
    data_only = FALSE,  
    keep_links = TRUE,  
    rich_text = FALSE,  
    ...  
)
```

Arguments

fn	fn
read_only	read_only
keep_vba	keep_vba
data_only	data_only
keep_links	keep_links
rich_text	rich_text
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
tmp <- write_xlsx(list(mysheet = iris))  
ExcelReader(fn = tmp)  
  
## End(Not run)
```

ExcelWriter

ExcelWriter

Description

Write a workbook object to an Excel file.

<https://openpyxl.readthedocs.io/en/latest/api/openpyxl.writer.excel.html>

Usage

```
ExcelWriter(workbook, archive, ...)
```

Arguments

workbook	workbook
archive	archive
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ExcelWriter(workbook = wb, archive = wb)

## End(Not run)
```

expand_cell_ranges

expand_cell_ranges

Description

Expand cell ranges to a sequence of addresses.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.datavalidation.html>

Usage

```
expand_cell_ranges(range_string, ...)
```

Arguments

```

range_string  range_string
...           Additional arguments, i.e. kwargs.

```

Details

Reverse of `collapse_cell_addresses` Eg. converts "A1:A2 B1:B2" to (A1, A2, B1, B2)

Value

An Python builtin object.

Examples

```

## Not run:
expand_cell_ranges(range_string = "A1:A2")

## End(Not run)

```

Extension

Extension

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.errors.html>

Usage

```
Extension(uri = NULL, ...)
```

Arguments

```

uri           uri
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
Extension()

## End(Not run)

```

ExtensionList	<i>ExtensionList</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.descriptors.excel.html>

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.errors.html>

Usage

```
ExtensionList(ext = list(), ...)
```

Arguments

ext	ext
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ExtensionList()  
  
## End(Not run)
```

ExternalBook	<i>ExternalBook</i>
--------------	---------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalBook(  
    sheetNames = NULL,  
    definedNames = list(),  
    sheetDataSet = NULL,  
    id = NULL,  
    ...  
)
```

Arguments

sheetNames	sheetNames
definedNames	definedNames
sheetDataSet	sheetDataSet
id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ExternalBook()

## End(Not run)
```

ExternalCell

ExternalCell

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalCell(r = NULL, t = NULL, vm = NULL, v = NULL, ...)
```

Arguments

r	r
t	t
vm	vm
v	v
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ExternalCell(r = "r")  
  
## End(Not run)
```

ExternalData	<i>ExternalData</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.chartspace.html>

Usage

```
ExternalData(autoUpdate = NULL, id = NULL, ...)
```

Arguments

autoUpdate	autoUpdate
id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ExternalData(id = "id")  
  
## End(Not run)
```

ExternalDefinedName *ExternalDefinedName*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalDefinedName(name = NULL, refersTo = NULL, sheetId = NULL, ...)
```

Arguments

name	name
refersTo	refersTo
sheetId	sheetId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ExternalDefinedName(name = "name")

## End(Not run)
```

ExternalLink *ExternalLink*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalLink(
    externalBook = NULL,
    ddeLink = NULL,
    oleLink = NULL,
    extLst = NULL,
    ...
)
```

Arguments

externalBook	externalBook
ddeLink	ddeLink
oleLink	oleLink
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ExternalLink()  
  
## End(Not run)
```

ExternalReference *ExternalReference*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_reference.html

Usage

```
ExternalReference(id, ...)
```

Arguments

id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ExternalReference(id = "id")  
  
## End(Not run)
```

ExternalSheetDataSet *ExternalSheetDataSet*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalSheetDataSet(sheetData = NULL, ...)
```

Arguments

sheetData	sheetData
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ExternalSheetDataSet(sheetData = list())

## End(Not run)
```

ExternalSheetNames *ExternalSheetNames*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.external_link.external.html

Usage

```
ExternalSheetNames(sheetName = list(), ...)
```

Arguments

sheetName	sheetName
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ExternalSheetNames()

## End(Not run)
```

FileSharing

FileSharing

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.protection.html>

Usage

```
FileSharing(
    readOnlyRecommended = NULL,
    userName = NULL,
    reservationPassword = NULL,
    algorithmName = NULL,
    hashValue = NULL,
    saltValue = NULL,
    spinCount = NULL,
    ...
)
```

Arguments

readOnlyRecommended	readOnlyRecommended
userName	userName
reservationPassword	reservationPassword
algorithmName	algorithmName
hashValue	hashValue
saltValue	saltValue
spinCount	spinCount
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FileSharing()

## End(Not run)
```

 FileVersion

FileVersion

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.properties.html>

Usage

```
FileVersion(
    appName = NULL,
    lastEdited = NULL,
    lowestEdited = NULL,
    rupBuild = NULL,
    codeName = NULL,
    ...
)
```

Arguments

appName	appName
lastEdited	lastEdited
lowestEdited	lowestEdited
rupBuild	rupBuild
codeName	codeName
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FileVersion()

## End(Not run)
```

Fill

Fill

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fills.html>

Usage

```
Fill(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Fill()  
  
## End(Not run)
```

FillOverlayEffect

FillOverlayEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
FillOverlayEffect(blend = NULL, ...)
```

Arguments

blend blend
... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FillOverlayEffect(blend = "darken")

## End(Not run)
```

FilterColumn

FilterColumn

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
FilterColumn(
  colId = NULL,
  hiddenButton = FALSE,
  showButton = TRUE,
  filters = NULL,
  top10 = NULL,
  customFilters = NULL,
  dynamicFilter = NULL,
  colorFilter = NULL,
  iconFilter = NULL,
  extLst = NULL,
  blank = NULL,
  vals = NULL,
  ...
)
```

Arguments

colId	colId
hiddenButton	hiddenButton
showButton	showButton
filters	filters
top10	top10
customFilters	customFilters
dynamicFilter	dynamicFilter
colorFilter	colorFilter
iconFilter	iconFilter
extLst	extLst

blank	blank
vals	vals
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FilterColumn(colId = 1L)

## End(Not run)
```

Filters

Filters

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
Filters(
    blank = NULL,
    calendarType = NULL,
    filter = list(),
    dateGroupItem = list(),
    ...
)
```

Arguments

blank	blank
calendarType	calendarType
filter	filter
dateGroupItem	dateGroupItem
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Filters()  
  
## End(Not run)
```

Font

Font

Description

Font options used in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fonts.html>

Usage

```
Font(  
  name = NULL,  
  sz = NULL,  
  b = NULL,  
  i = NULL,  
  charset = NULL,  
  u = NULL,  
  strike = NULL,  
  color = NULL,  
  scheme = NULL,  
  family = NULL,  
  size = NULL,  
  bold = NULL,  
  italic = NULL,  
  strikethrough = NULL,  
  underline = NULL,  
  vertAlign = NULL,  
  outline = NULL,  
  shadow = NULL,  
  condense = NULL,  
  extend = NULL,  
  ...  
)
```

Arguments

name	name
sz	sz
b	b

i	i
charset	charset
u	u
strike	strike
color	color
scheme	scheme
family	family
size	size
bold	bold
italic	italic
strikethrough	strikethrough
underline	underline
vertAlign	vertAlign
outline	outline
shadow	shadow
condense	condense
extend	extend
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Font()  
  
## End(Not run)
```

FontReference

FontReference

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
FontReference(idx = NULL, ...)
```

Arguments

idx	idx
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FontReference()

## End(Not run)
```

FormatObject

FormatObject

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
FormatObject(type, val = NULL, gte = NULL, extLst = NULL, ...)
```

Arguments

type	type
val	val
gte	gte
extLst	extLst
...	Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:
FormatObject(type = "num")

## End(Not run)
```

FormulaRule	<i>FormulaRule</i>
-------------	--------------------

Description

Conditional formatting with custom differential style

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
FormulaRule(  
    formula = NULL,  
    stopIfTrue = NULL,  
    font = NULL,  
    border = NULL,  
    fill = NULL,  
    ...  
)
```

Arguments

formula	formula
stopIfTrue	stopIfTrue
font	font
border	border
fill	fill
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
wb <- Workbook()  
ws <- wb$active  
ws$conditional_formatting$add('E1:E10',  
    FormulaRule(  
        formula = list('ISBLANK(A1)'),  
        stopIfTrue=TRUE  
    )  
)  
## End(Not run)
```

FunctionGroup	<i>FunctionGroup</i>
---------------	----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.function_group.html

Usage

```
FunctionGroup(name = NULL, ...)
```

Arguments

name	name
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
FunctionGroup(name = "name")

## End(Not run)
```

FunctionGroupList	<i>FunctionGroupList</i>
-------------------	--------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.function_group.html

Usage

```
FunctionGroupList(builtInGroupCount = 16L, functionGroup = list(), ...)
```

Arguments

builtInGroupCount	builtInGroupCount
functionGroup	functionGroup
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
FunctionGroupList()  
  
## End(Not run)
```

GeomGuide

GeomGuide

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
GeomGuide(name = NULL, fmla = NULL, ...)
```

Arguments

name	name
fmla	fmla
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GeomGuide(name = "name", fmla = "fmla")  
  
## End(Not run)
```

GeomGuideList	<i>GeomGuideList</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
GeomGuideList(gd = NULL, ...)
```

Arguments

gd	gd
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
GeomGuideList()

## End(Not run)
```

GeomRect	<i>GeomRect</i>
----------	-----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
GeomRect(l = NULL, t = NULL, r = NULL, b = NULL, ...)
```

Arguments

l	l
t	t
r	r
b	b
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GeomRect(l = 1L, t = 1L, 1L, 1L)  
  
## End(Not run)
```

`get_column_interval` *get_column_interval*

Description

Given the start and end columns, return all the columns in the series.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
get_column_interval(start, end, ...)
```

Arguments

<code>start</code>	start
<code>end</code>	end
<code>...</code>	Additional arguments, i.e. kwargs.

Details

The start and end columns can be either column letters or 1-based indexes.

Value

An openpyxl Python object.

Examples

```
## Not run:  
get_column_interval(start = "A", end = 3L)  
  
## End(Not run)
```

get_column_letter *get_column_letter*

Description

Convert a column index into a column letter

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
get_column_letter(idx, ...)
```

Arguments

idx	idx
...	Additional arguments, i.e. kwargs.

Details

(3 -> 'C')

Value

An openpyxl Python object.

Examples

```
## Not run:  
get_column_letter(idx = 3L)  
  
## End(Not run)
```

get_type *get_type*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.cell.html>

Usage

```
get_type(t, value, ...)
```

Arguments

t	t
value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
get_type(t = "t", value = "value")  
  
## End(Not run)
```

GlowEffect

GlowEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
GlowEffect(rad = NULL, ...)
```

Arguments

rad	rad
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GlowEffect(rad = 1.5)  
  
## End(Not run)
```

 GradientFill

GradientFill

Description

Fill areas with gradient

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fills.html>

Usage

```
GradientFill(
    type = "linear",
    degree = 0L,
    left = 0L,
    right = 0L,
    top = 0L,
    bottom = 0L,
    stop = list(),
    ...
)
```

Arguments

type	type
degree	degree
left	left
right	right
top	top
bottom	bottom
stop	stop
...	Additional arguments, i.e. kwargs.

Details

Two types of gradient fill are supported: - A type='linear' gradient interpolates colours between a set of specified Stops, across the length of an area. The gradient is left-to-right by default, but this orientation can be modified with the degree attribute. A list of Colors can be provided instead and they will be positioned with equal distance between them. - A type='path' gradient applies a linear gradient from each edge of the area. Attributes top, right, bottom, left specify the extent of fill from the respective borders. Thus top="0.2" will fill the top 20

Value

An openpyxl Python object.

Examples

```
## Not run:  
GradientFill()  
  
## End(Not run)
```

GradientFillProperties

GradientFillProperties

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
GradientFillProperties(  
    flip = NULL,  
    rotWithShape = NULL,  
    gsLst = list(),  
    lin = NULL,  
    path = NULL,  
    tileRect = NULL,  
    ...  
)
```

Arguments

flip	flip
rotWithShape	rotWithShape
gsLst	gsLst
lin	lin
path	path
tileRect	tileRect
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GradientFillProperties()  
  
## End(Not run)
```

GradientStop

GradientStop

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
GradientStop(  
    pos = NULL,  
    scrgbClr = NULL,  
    srgbClr = NULL,  
    hslClr = NULL,  
    sysClr = NULL,  
    schemeClr = NULL,  
    prstClr = NULL,  
    ...  
)
```

Arguments

pos	pos
scrgbClr	scrgbClr
srgbClr	srgbClr
hslClr	hslClr
sysClr	sysClr
schemeClr	schemeClr
prstClr	prstClr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GradientStop()  
  
## End(Not run)
```

GraphicalProperties *GraphicalProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.shapes.html>

Usage

```
GraphicalProperties(  
    bwMode = NULL,  
    xfrm = NULL,  
    noFill = NULL,  
    solidFill = NULL,  
    gradFill = NULL,  
    pattFill = NULL,  
    ln = NULL,  
    scene3d = NULL,  
    custGeom = NULL,  
    prstGeom = NULL,  
    sp3d = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

<code>bwMode</code>	<code>bwMode</code>
<code>xfrm</code>	<code>xfrm</code>
<code>noFill</code>	<code>noFill</code>
<code>solidFill</code>	<code>solidFill</code>
<code>gradFill</code>	<code>gradFill</code>
<code>pattFill</code>	<code>pattFill</code>
<code>ln</code>	<code>ln</code>
<code>scene3d</code>	<code>scene3d</code>
<code>custGeom</code>	<code>custGeom</code>
<code>prstGeom</code>	<code>prstGeom</code>
<code>sp3d</code>	<code>sp3d</code>
<code>extLst</code>	<code>extLst</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Details

This element specifies the formatting for the parent chart element. The `custGeom`, `prstGeom`, `scene3d`, and `xfrm` elements are not supported. The `bwMode` attribute is not supported. This doesn't leave much. And the element is used in different places.

Value

An `openpyxl` Python object.

Examples

```
## Not run:
GraphicalProperties()

## End(Not run)
```

GraphicData

GraphicData

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.graphic.html>

Usage

```
GraphicData(
    uri = "http://schemas.openxmlformats.org/drawingml/2006/chart",
    chart = NULL,
    ...
)
```

Arguments

<code>uri</code>	<code>uri</code>
<code>chart</code>	<code>chart</code>
<code>...</code>	Additional arguments, i.e. <code>kwargs</code> .

Value

An `openpyxl` Python object.

Examples

```
## Not run:
GraphicData()

## End(Not run)
```

GraphicFrameLocking *GraphicFrameLocking*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.graphic.html>

Usage

```
GraphicFrameLocking(  
    noGrp = NULL,  
    noDrilldown = NULL,  
    noSelect = NULL,  
    noChangeAspect = NULL,  
    noMove = NULL,  
    noResize = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

noGrp	noGrp
noDrilldown	noDrilldown
noSelect	noSelect
noChangeAspect	noChangeAspect
noMove	noMove
noResize	noResize
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GraphicFrameLocking()  
  
## End(Not run)
```

GraphicObject	<i>GraphicObject</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.graphic.html>

Usage

```
GraphicObject(graphicData = NULL, ...)
```

Arguments

graphicData	graphicData
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
GraphicObject()  
  
## End(Not run)
```

GrayscaleEffect	<i>GrayscaleEffect</i>
-----------------	------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
GrayscaleEffect(...)
```

Arguments

...	Additional arguments, i.e. kwargs.
-----	------------------------------------

Value

An openpyxl Python object.

Examples

```
## Not run:
GrayscaleEffect()

## End(Not run)
```

GroupLocking

GroupLocking

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.properties.html>

Usage

```
GroupLocking(
  noGrp = NULL,
  noUngrp = NULL,
  noSelect = NULL,
  noRot = NULL,
  noChangeAspect = NULL,
  noChangeArrowheads = NULL,
  noMove = NULL,
  noResize = NULL,
  noEditPoints = NULL,
  noAdjustHandles = NULL,
  noChangeShapeType = NULL,
  extLst = NULL,
  ...
)
```

Arguments

noGrp	noGrp
noUngrp	noUngrp
noSelect	noSelect
noRot	noRot
noChangeAspect	noChangeAspect
noChangeArrowheads	noChangeArrowheads
noMove	noMove
noResize	noResize
noEditPoints	noEditPoints

```

noAdjustHandles      noAdjustHandles
noChangeShapeType    noChangeShapeType
extLst               extLst
...                 Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
GroupLocking()

## End(Not run)

```

GroupShapeProperties *GroupShapeProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.properties.html>

Usage

```

GroupShapeProperties(
    bwMode = NULL,
    xfrm = NULL,
    scene3d = NULL,
    extLst = NULL,
    ...
)

```

Arguments

```

bwMode      bwMode
xfrm        xfrm
scene3d     scene3d
extLst      extLst
...         Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```
## Not run:
GroupShapeProperties()

## End(Not run)
```

GroupTransform2D

GroupTransform2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
GroupTransform2D(
    rot = 0L,
    flipH = NULL,
    flipV = NULL,
    off = NULL,
    ext = NULL,
    chOff = NULL,
    chExt = NULL,
    ...
)
```

Arguments

rot	rot
flipH	flipH
flipV	flipV
off	off
ext	ext
chOff	chOff
chExt	chExt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
GroupTransform2D()

## End(Not run)
```

hash_password	<i>hash_password</i>
---------------	----------------------

Description

Create a password hash from a given string for protecting a worksheet

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.protection.html>

Usage

```
hash_password(plaintext_password = "", ...)
```

Arguments

```
plaintext_password
    plaintext_password
...
    Additional arguments, i.e. kwargs.
```

Details

only. This will not work for encrypting a workbook. This method is based on the algorithm provided by Daniel Rentz of OpenOffice and the PEAR package Spreadsheet_Excel_Writer by Xavier Noguer <xnoguer@rezebra.com>. See also <http://blogs.msdn.com/b/ericwhite/archive/2008/02/23/the-legacy-hashing-algorithm-in-open-xml.aspx>

Value

An openpyxl Python object.

Examples

```
## Not run:
hash_password(plaintext_password = "password")

## End(Not run)
```

HeaderFooter	<i>HeaderFooter</i>
--------------	---------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.header_footer.html

Usage

```
HeaderFooter(
    differentOddEven = NULL,
    differentFirst = NULL,
    scaleWithDoc = NULL,
    alignWithMargins = NULL,
    oddHeader = NULL,
    oddFooter = NULL,
    evenHeader = NULL,
    evenFooter = NULL,
    firstHeader = NULL,
    firstFooter = NULL,
    ...
)
```

Arguments

<code>differentOddEven</code>	<code>differentOddEven</code>
<code>differentFirst</code>	<code>differentFirst</code>
<code>scaleWithDoc</code>	<code>scaleWithDoc</code>
<code>alignWithMargins</code>	<code>alignWithMargins</code>
<code>oddHeader</code>	<code>oddHeader</code>
<code>oddFooter</code>	<code>oddFooter</code>
<code>evenHeader</code>	<code>evenHeader</code>
<code>evenFooter</code>	<code>evenFooter</code>
<code>firstHeader</code>	<code>firstHeader</code>
<code>firstFooter</code>	<code>firstFooter</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
HeaderFooter()  
  
## End(Not run)
```

HeaderFooterItem	<i>HeaderFooterItem</i>
------------------	-------------------------

Description

Header or footer item

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.header_footer.html

Usage

```
HeaderFooterItem(left = NULL, right = NULL, center = NULL, ...)
```

Arguments

left	left
right	right
center	center
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
HeaderFooterItem()  
  
## End(Not run)
```

HSLColor

HSLColor

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.colors.html>

Usage

```
HSLColor(hue = NULL, sat = NULL, lum = NULL, ...)
```

Arguments

hue	hue
sat	sat
lum	lum
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
HSLColor(hue = 1L, sat = 1L, lum = 1L)  
  
## End(Not run)
```

HSLEffect

HSLEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
HSLEffect(hue = NULL, sat = NULL, lum = NULL, ...)
```

Arguments

hue	hue
sat	sat
lum	lum
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
HSEffect(hue = 1L, sat = 1L, lum = 1L)

## End(Not run)
```

Hyperlink

Hyperlink

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.hyperlink.html>

Usage

```
Hyperlink(
    ref = NULL,
    location = NULL,
    tooltip = NULL,
    display = NULL,
    id = NULL,
    target = NULL,
    ...
)
```

Arguments

ref	ref
location	location
tooltip	tooltip
display	display
id	id
target	target
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Hyperlink(ref = "ref")  
  
## End(Not run)
```

HyperlinkList	<i>HyperlinkList</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.hyperlink.html>

Usage

```
HyperlinkList(hyperlink = list(), ...)
```

Arguments

hyperlink	hyperlink
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
HyperlinkList()  
  
## End(Not run)
```

iadd	<i>iadd from operator Python module</i>
------	---

Description

<https://docs.python.org/3/library/operator.html#in-place-operators>

Usage

```
iadd(a, b)
```

Arguments

a	a
b	b

Value

A Python object.

Examples

```
## Not run:  
a <- "hello"  
iadd(a = a, b = " world")  
  
## End(Not run)
```

IconFilter

IconFilter

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
IconFilter(iconSet = NULL, iconId = NULL, ...)
```

Arguments

iconSet	iconSet
iconId	iconId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
IconFilter(iconSet = "3TrafficLights1")  
  
## End(Not run)
```

IconSet	<i>IconSet</i>
---------	----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
IconSet(  
    iconSet = NULL,  
    showValue = NULL,  
    percent = NULL,  
    reverse = NULL,  
    cfvo = NULL,  
    ...  
)
```

Arguments

iconSet	iconSet
showValue	showValue
percent	percent
reverse	reverse
cfvo	cfvo
...	Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:  
first <- FormatObject(type='percent', val=0)  
second <- FormatObject(type='percent', val=33)  
third <- FormatObject(type='percent', val=67)  
iconset <- IconSet(  
    iconSet = '3TrafficLights1',  
    cfvo = list(first, second, third)  
)  
  
## End(Not run)
```

IconSetRule

IconSetRule

Description

Convenience function for creating icon set rules

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
IconSetRule(  
    icon_style = NULL,  
    type = NULL,  
    values = NULL,  
    showValue = NULL,  
    percent = NULL,  
    reverse = NULL,  
    ...  
)
```

Arguments

icon_style	icon_style
type	type
values	values
showValue	showValue
percent	percent
reverse	reverse
...	Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:  
IconSetRule('5Arrows', 'percent', list(10, 20, 30, 40, 50),  
    showValue=NULL, percent=NULL, reverse=NULL)  
  
## End(Not run)
```

IgnoredError	<i>IgnoredError</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.errors.html>

Usage

```
IgnoredError(
    sqref = NULL,
    evalError = FALSE,
    twoDigitTextYear = FALSE,
    numberStoredAsText = FALSE,
    formula = FALSE,
    formulaRange = FALSE,
    unlockedFormula = FALSE,
    emptyCellReference = FALSE,
    listDataValidation = FALSE,
    calculatedColumn = FALSE,
    ...
)
```

Arguments

sqref	sqref
evalError	evalError
twoDigitTextYear	twoDigitTextYear
numberStoredAsText	numberStoredAsText
formula	formula
formulaRange	formulaRange
unlockedFormula	unlockedFormula
emptyCellReference	emptyCellReference
listDataValidation	listDataValidation
calculatedColumn	calculatedColumn
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
IgnoredError()

## End(Not run)
```

IgnoredErrors	<i>IgnoredErrors</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.errors.html>

Usage

```
IgnoredErrors(ignoredError = list(), extLst = NULL, ...)
```

Arguments

ignoredError	ignoredError
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
IgnoredErrors()

## End(Not run)
```

Image	<i>Image</i>
-------	--------------

Description

Image in a spreadsheet. You must have the Pillow Python library installed, which can be installed using 'install_pillow()'.
<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.image.html>

Usage

```
Image(img, ...)
```

Arguments

img	img
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
install_pillow()
image_path <- system.file('extdata/logo.png', package='xlcharts')
Image(img = image_path)

## End(Not run)
```

inch_to_dxa	<i>inch_to_dxa</i>
-------------	--------------------

Description

1 inch = 72 * 20 dxa

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
inch_to_dxa(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An numeric value.

Examples

```
## Not run:
inch_to_dxa(value = 1)

## End(Not run)
```

inch_to_EMU *inch_to_EMU*

Description

1 inch = 914400 EMUs

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
inch_to_EMU(value, ...)
```

Arguments

value	value
...	Additional arguments, i.e. kwargs.

Value

An numeric value.

Examples

```
## Not run:  
inch_to_EMU(value = 1)  
  
## End(Not run)
```

InlineFont *InlineFont*

Description

Font for inline text because, yes what you need are different objects with the same elements but different constraints.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.text.html>

Usage

```
InlineFont(  
    rFont = NULL,  
    charset = NULL,  
    family = NULL,  
    b = NULL,  
    i = NULL,  
    strike = NULL,  
    outline = NULL,  
    shadow = NULL,  
    condense = NULL,  
    extend = NULL,  
    color = NULL,  
    sz = NULL,  
    u = NULL,  
    vertAlign = NULL,  
    scheme = NULL,  
    ...  
)
```

Arguments

rFont	rFont
charset	charset
family	family
b	b
i	i
strike	strike
outline	outline
shadow	shadow
condense	condense
extend	extend
color	color
sz	sz
u	u
vertAlign	vertAlign
scheme	scheme
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
InlineFont()  
  
## End(Not run)
```

InnerShadowEffect *InnerShadowEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
InnerShadowEffect(blurRad = NULL, dist = NULL, dir = NULL, ...)
```

Arguments

blurRad	blurRad
dist	dist
dir	dir
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
InnerShadowEffect(blurRad = 1, dist = 1, dir = 1)  
  
## End(Not run)
```

InputCells	<i>InputCells</i>
------------	-------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.scenario.html>

Usage

```
InputCells(  
    r = NULL,  
    deleted = FALSE,  
    undone = FALSE,  
    val = NULL,  
    numFmtId = NULL,  
    ...  
)
```

Arguments

r	r
deleted	deleted
undone	undone
val	val
numFmtId	numFmtId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
InputCells(r = "r", val = "val")  
  
## End(Not run)
```

install_openpyxl	<i>Install openpyxl Python module</i>
------------------	---------------------------------------

Description

Install openpyxl Python module

Usage

```
install_openpyxl(method = "auto", conda = "auto")
```

Arguments

method	method
conda	conda

Value

(Invisible) 'TRUE' if the Conda environment was created successfully.

install_pillow	<i>Install pillow Python module</i>
----------------	-------------------------------------

Description

Module needed to include images in an Excel file.

Usage

```
install_pillow(method = "auto", conda = "auto")
```

Arguments

method	method
conda	conda

Value

(Invisible) 'TRUE' if the Conda environment was created successfully.

Layout	<i>Layout</i>
--------	---------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.layout.html>

Usage

```
Layout(manualLayout = NULL, extLst = NULL, ...)
```

Arguments

manualLayout	manualLayout
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Layout()  
  
## End(Not run)
```

Legend	<i>Legend</i>
--------	---------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.legend.html>

Usage

```
Legend(  
    legendPos = "r",  
    legendEntry = list(),  
    layout = NULL,  
    overlay = NULL,  
    spPr = NULL,  
    txPr = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

legendPos	legendPos
legendEntry	legendEntry
layout	layout
overlay	overlay
spPr	spPr
txPr	txPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Legend()

## End(Not run)
```

LegendEntry

LegendEntry

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.legend.html>

Usage

```
LegendEntry(idx = 0, delete = NULL, txPr = NULL, extLst = NULL, ...)
```

Arguments

idx	idx
delete	delete
txPr	txPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
LegendEntry()

## End(Not run)
```

Level	<i>Level</i>
-------	--------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
Level(pt = list(), ...)
```

Arguments

pt	pt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Level()

## End(Not run)
```

LightRig	<i>LightRig</i>
----------	-----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
LightRig(rig = NULL, dir = NULL, rot = NULL, ...)
```

Arguments

rig	rig
dir	dir
rot	rot
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LightRig(rig = "morning", dir = "t")  
  
## End(Not run)
```

LinearShadeProperties *LinearShadeProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
LinearShadeProperties(ang = NULL, scaled = NULL, ...)
```

Arguments

ang	ang
scaled	scaled
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LinearShadeProperties(ang = 30)  
  
## End(Not run)
```

`LineBreak`*LineBreak*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
LineBreak(rPr = NULL, ...)
```

Arguments

<code>rPr</code>	<code>rPr</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LineBreak()  
  
## End(Not run)
```

`LineChart`*LineChart*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.line_chart.html

Usage

```
LineChart(  
    hiLowLines = NULL,  
    upDownBars = NULL,  
    marker = NULL,  
    smooth = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

hiLowLines	hiLowLines
upDownBars	upDownBars
marker	marker
smooth	smooth
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
LineChart()

## End(Not run)
```

LineChart3D

LineChart3D

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.line_chart.html

Usage

```
LineChart3D(
    gapDepth = NULL,
    hiLowLines = NULL,
    upDownBars = NULL,
    marker = NULL,
    smooth = NULL,
    ...
)
```

Arguments

gapDepth	gapDepth
hiLowLines	hiLowLines
upDownBars	upDownBars
marker	marker
smooth	smooth
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LineChart3D()  
  
## End(Not run)
```

LineEndProperties *LineEndProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.line.html>

Usage

```
LineEndProperties(type = NULL, w = NULL, len = NULL, ...)
```

Arguments

type	type
w	w
len	len
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LineEndProperties()  
  
## End(Not run)
```

 LineProperties

LineProperties

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.line.html>

Usage

```
LineProperties(
    w = NULL,
    cap = NULL,
    compd = NULL,
    algn = NULL,
    noFill = NULL,
    solidFill = NULL,
    gradFill = NULL,
    pattFill = NULL,
    prstDash = NULL,
    custDash = NULL,
    round = NULL,
    bevel = NULL,
    miter = NULL,
    headEnd = NULL,
    tailEnd = NULL,
    extLst = NULL,
    ...
)
```

Arguments

w	w
cap	cap
compd	compd
algn	algn
noFill	noFill
solidFill	solidFill
gradFill	gradFill
pattFill	pattFill
prstDash	prstDash
custDash	custDash
round	round
bevel	bevel

miter	miter
headEnd	headEnd
tailEnd	tailEnd
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
LineProperties()  
  
## End(Not run)
```

ListStyle

ListStyle

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
ListStyle(  
    defPPr = NULL,  
    lv11pPr = NULL,  
    lv12pPr = NULL,  
    lv13pPr = NULL,  
    lv14pPr = NULL,  
    lv15pPr = NULL,  
    lv16pPr = NULL,  
    lv17pPr = NULL,  
    lv18pPr = NULL,  
    lv19pPr = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

defPPr	defPPr
lv11pPr	lv11pPr
lv12pPr	lv12pPr
lv13pPr	lv13pPr
lv14pPr	lv14pPr
lv15pPr	lv15pPr
lv16pPr	lv16pPr
lv17pPr	lv17pPr
lv18pPr	lv18pPr
lv19pPr	lv19pPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ListStyle()

## End(Not run)
```

load_workbook	<i>load_workbook</i>
---------------	----------------------

Description

Open the given filename and return the workbook

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.reader.excel.html>

Usage

```
load_workbook(
    filename,
    read_only = FALSE,
    keep_vba = FALSE,
    data_only = FALSE,
    keep_links = TRUE,
    rich_text = FALSE,
    ...
)
```

Arguments

filename	filename string or a file-like object open in binary mode c.f., :class:'zipfile.ZipFile' :param read_only: optimised for reading, content cannot be edited
read_only	read_only bool
keep_vba	keep_vba preserve vba content (this does NOT mean you can use it)
data_only	data_only bool
keep_links	keep_links whether links to external workbooks should be preserved. The default is TRUE
rich_text	rich_text bool :rtype: :class:'openpyxl.workbook.Workbook' .. note:: When using lazy load, all worksheets will be :class:'openpyxl.worksheet.iter_worksheet.IterableWorksheet' and the returned workbook will be read-only.
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
tmp <- write_xlsx(list(mysheet = iris))
load_workbook(filename = tmp)

## End(Not run)
```

LuminanceEffect

LuminanceEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
LuminanceEffect(bright = 0L, contrast = 0L, ...)
```

Arguments

bright	bright
contrast	contrast
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
LuminanceEffect()

## End(Not run)
```

ManualLayout

ManualLayout

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.layout.html>

Usage

```
ManualLayout(
  layoutTarget = NULL,
  xMode = NULL,
  yMode = NULL,
  wMode = "factor",
  hMode = "factor",
  x = NULL,
  y = NULL,
  w = NULL,
  h = NULL,
  extLst = NULL,
  ...
)
```

Arguments

layoutTarget	layoutTarget
xMode	xMode
yMode	yMode
wMode	wMode
hMode	hMode
x	x
y	y
w	w
h	h
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ManualLayout()

## End(Not run)
```

Marker

Marker

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.marker.html>

Usage

```
Marker(symbol = NULL, size = NULL, spPr = NULL, extLst = NULL, ...)
```

Arguments

symbol	symbol
size	size
spPr	spPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Marker()

## End(Not run)
```

MergeCell
*MergeCell***Description**

Represents a range in a sheet: title and coordinates.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.merge.html>

Usage

```
MergeCell(ref = NULL, ...)
```

Arguments

ref	ref
...	Additional arguments, i.e. kwargs.

Details

This object is used to perform operations on ranges, like: - shift, expand or shrink - union/intersection with another sheet range, We can check whether a range is: - equal or not equal to another, - disjoint of another, - contained in another. We can get: - the size of a range. - the range bounds (vertices) - the coordinates, - the string representation,

Value

An openpyxl Python object.

Examples

```
## Not run:
MergeCell(ref = "A1")

## End(Not run)
```

MergeCells
*MergeCells***Description**

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.merge.html>

Usage

```
MergeCells(count = NULL, mergeCell = list(), ...)
```

Arguments

count	count
mergeCell	mergeCell
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
MergeCells()

## End(Not run)
```

MergedCell	<i>MergedCell</i>
------------	-------------------

Description

Describes the properties of a cell in a merged cell and helps to display the borders of the merged cell.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.cell.html>

Usage

```
MergedCell(worksheet, row = NULL, column = NULL, ...)
```

Arguments

worksheet	worksheet
row	row
column	column
...	Additional arguments, i.e. kwargs.

Details

The value of a MergedCell is always NULL.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
MergedCell(worksheet = wb$active, row = 1L, column = 1L)

## End(Not run)
```

MergedCellRange	<i>MergedCellRange</i>
-----------------	------------------------

Description

MergedCellRange stores the border information of a merged cell in the top

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.merge.html>

Usage

```
MergedCellRange(worksheet, coord, ...)
```

Arguments

worksheet	worksheet
coord	coord
...	Additional arguments, i.e. kwargs.

Details

left cell of the merged cell. The remaining cells in the merged cell are stored as MergedCell objects and get their border information from the upper left cell.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
MergedCellRange(worksheet = wb$active, coord = "A1")

## End(Not run)
```

MultiCellRange	<i>MultiCellRange</i>
----------------	-----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.cell_range.html

Usage

```
MultiCellRange(ranges = list(), ...)
```

Arguments

ranges	ranges
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
MultiCellRange()  
  
## End(Not run)
```

MultiLevelStrData	<i>MultiLevelStrData</i>
-------------------	--------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
MultiLevelStrData(ptCount = NULL, lvl = list(), extLst = NULL, ...)
```

Arguments

ptCount	ptCount
lvl	lvl
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
MultiLevelStrData()

## End(Not run)
```

MultiLevelStrRef	<i>MultiLevelStrRef</i>
------------------	-------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
MultiLevelStrRef(f = NULL, multiLvlStrCache = NULL, extLst = NULL, ...)
```

Arguments

f	f
multiLvlStrCache	multiLvlStrCache
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
MultiLevelStrRef()

## End(Not run)
```

NamedStyle

NamedStyle

Description

Named and editable styles

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.named_styles.html

Usage

```
NamedStyle(  
    name = "Normal",  
    font = NULL,  
    fill = NULL,  
    border = NULL,  
    alignment = NULL,  
    number_format = NULL,  
    protection = NULL,  
    builtinId = NULL,  
    hidden = FALSE,  
    xfId = NULL,  
    ...  
)
```

Arguments

name	name
font	font
fill	fill
border	border
alignment	alignment
number_format	number_format
protection	protection
builtinId	builtinId
hidden	hidden
xfId	xfId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
NamedStyle()  
  
## End(Not run)
```

NamedStyleList	<i>NamedStyleList</i>
----------------	-----------------------

Description

Named styles are editable and can be applied to multiple objects

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.named_styles.html

Usage

```
NamedStyleList(iterable = list(), ...)
```

Arguments

<code>iterable</code>	iterable
<code>...</code>	Additional arguments, i.e. kwargs.

Details

As only the index is stored in referencing objects the order must be preserved.

Value

An openpyxl Python object.

Examples

```
## Not run:  
NamedStyleList()  
  
## End(Not run)
```

NestedGapAmount	<i>NestedGapAmount</i>
-----------------	------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.descriptors.html>

Usage

```
NestedGapAmount(...)
```

Arguments

```
... Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
NestedGapAmount()  
  
## End(Not run)
```

NestedOverlap	<i>NestedOverlap</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.descriptors.html>

Usage

```
NestedOverlap(...)
```

Arguments

```
... Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
NestedOverlap()  
  
## End(Not run)
```

```
NonVisualConnectorProperties  
    NonVisualConnectorProperties
```

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.connector.html>

Usage

```
NonVisualConnectorProperties(  
    cxnSpLocks = NULL,  
    stCxn = NULL,  
    endCxn = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

<code>cxnSpLocks</code>	<code>cxnSpLocks</code>
<code>stCxn</code>	<code>stCxn</code>
<code>endCxn</code>	<code>endCxn</code>
<code>extLst</code>	<code>extLst</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
NonVisualConnectorProperties()  
  
## End(Not run)
```

NonVisualDrawingShapeProps
NonVisualDrawingShapeProps

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.properties.html>

Usage

```
NonVisualDrawingShapeProps(spLocks = NULL, txBox = NULL, extLst = NULL, ...)
```

Arguments

spLocks	spLocks
txBox	txBox
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
NonVisualDrawingShapeProps()  
  
## End(Not run)
```

NonVisualGraphicFrameProperties
NonVisualGraphicFrameProperties

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.graphic.html>

Usage

```
NonVisualGraphicFrameProperties(graphicFrameLocks = NULL, extLst = NULL, ...)
```

Arguments

```

    graphicFrameLocks
                        graphicFrameLocks
    extLst              extLst
    ...                Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
NonVisualGraphicFrameProperties()

## End(Not run)

```

```

NonVisualPictureProperties
    NonVisualPictureProperties

```

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.picture.html>

Usage

```

NonVisualPictureProperties(
    preferRelativeResize = NULL,
    picLocks = NULL,
    extLst = NULL,
    ...
)

```

Arguments

```

    preferRelativeResize
                        preferRelativeResize
    picLocks            picLocks
    extLst              extLst
    ...                Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```
## Not run:  
NonVisualPictureProperties()  
  
## End(Not run)
```

NumData

NumData

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
NumData(formatCode = NULL, ptCount = NULL, pt = list(), extLst = NULL, ...)
```

Arguments

formatCode	formatCode
ptCount	ptCount
pt	pt
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
NumData()  
  
## End(Not run)
```

NumDataSource	<i>NumDataSource</i>
---------------	----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
NumDataSource(numRef = NULL, numLit = NULL, ...)
```

Arguments

numRef	numRef
numLit	numLit
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
NumDataSource()

## End(Not run)
```

NumericAxis	<i>NumericAxis</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
NumericAxis(
    crossBetween = NULL,
    majorUnit = NULL,
    minorUnit = NULL,
    dispUnits = NULL,
    extLst = NULL,
    ...
)
```

Arguments

crossBetween	crossBetween
majorUnit	majorUnit
minorUnit	minorUnit
dispUnits	dispUnits
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
NumericAxis()

## End(Not run)
```

NumFmt

NumFmt

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
NumFmt(formatCode = NULL, sourceLinked = FALSE, ...)
```

Arguments

formatCode	formatCode
sourceLinked	sourceLinked
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
NumFmt(formatCode = "formatCode")

## End(Not run)
```

NumRef	<i>NumRef</i>
--------	---------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
NumRef(f = NULL, numCache = NULL, extLst = NULL, ...)
```

Arguments

f	f
numCache	numCache
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
NumRef()

## End(Not run)
```

NumVal	<i>NumVal</i>
--------	---------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
NumVal(idx = NULL, formatCode = NULL, v = NULL)
```

Arguments

idx	idx
formatCode	formatCode
v	v

Value

An openpyxl Python object.

Examples

```
## Not run:
NumVal(idx = 1L)

## End(Not run)
```

ObjectAnchor	<i>ObjectAnchor</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.ole.html>

Usage

```
ObjectAnchor(
    from = NULL,
    to = NULL,
    moveWithCells = FALSE,
    sizeWithCells = FALSE,
    z_order = NULL,
    ...
)
```

Arguments

from	<i>_from</i>
to	<i>to</i>
moveWithCells	<i>moveWithCells</i>
sizeWithCells	<i>sizeWithCells</i>
z_order	<i>z_order</i>
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ObjectAnchor(from = AnchorMarker(), to = AnchorMarker())  
  
## End(Not run)
```

OneCellAnchor

OneCellAnchor

Description

Note that the argument ‘_from’ has been transformed to ‘from’.

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
OneCellAnchor(from = NULL, ext = NULL, ...)
```

Arguments

from	from
ext	ext
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
OneCellAnchor()  
  
## End(Not run)
```

Outline

Outline

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.properties.html>

Usage

```
Outline(  
    applyStyles = NULL,  
    summaryBelow = NULL,  
    summaryRight = NULL,  
    showOutlineSymbols = NULL,  
    ...  
)
```

Arguments

<code>applyStyles</code>	<code>applyStyles</code>
<code>summaryBelow</code>	<code>summaryBelow</code>
<code>summaryRight</code>	<code>summaryRight</code>
<code>showOutlineSymbols</code>	<code>showOutlineSymbols</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Outline()  
  
## End(Not run)
```

 PageBreak

PageBreak

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.pagebreak.html>

Usage

```
PageBreak(count = NULL, manualBreakCount = NULL, brk = list(), ...)
```

Arguments

count	count
manualBreakCount	manualBreakCount
brk	brk
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PageBreak()

## End(Not run)
```

 PageMargins

PageMargins

Description

Information about page margins for view/print layouts.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.page.html>

Usage

```
PageMargins(  
    left = 0.75,  
    right = 0.75,  
    top = 1L,  
    bottom = 1L,  
    header = 0.5,  
    footer = 0.5,  
    ...  
)
```

Arguments

left	left
right	right
top	top
bottom	bottom
header	header
footer	footer
...	Additional arguments, i.e. kwargs.

Details

Standard values (in inches) left, right = 0.75 top, bottom = 1 header, footer = 0.5

Value

An openpyxl Python object.

Examples

```
## Not run:  
PageMargins()  
  
## End(Not run)
```

PageSetupProperties *PageSetupProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.properties.html>

Usage

```
PageSetupProperties(autoPageBreaks = NULL, fitToPage = NULL, ...)
```

Arguments

autoPageBreaks	autoPageBreaks
fitToPage	fitToPage
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PageSetupProperties()

## End(Not run)
```

 Pane

Pane

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.views.html>

Usage

```
Pane(
    xSplit = NULL,
    ySplit = NULL,
    topLeftCell = NULL,
    activePane = "topLeft",
    state = "split",
    ...
)
```

Arguments

xSplit	xSplit
ySplit	ySplit
topLeftCell	topLeftCell
activePane	activePane
state	state
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Pane()

## End(Not run)
```

 Paragraph

Paragraph

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

Paragraph(pPr = NULL, endParaRPr = NULL, r = NULL, br = NULL, fld = NULL, ...)

Arguments

pPr	pPr
endParaRPr	endParaRPr
r	r
br	br
fld	fld
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Paragraph()

## End(Not run)
```

ParagraphProperties *ParagraphProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
ParagraphProperties(  
    marL = NULL,  
    marR = NULL,  
    lvl = NULL,  
    indent = NULL,  
    algn = NULL,  
    defTabSz = NULL,  
    rtl = NULL,  
    eaLnBrk = NULL,  
    fontAlgn = NULL,  
    latinLnBrk = NULL,  
    hangingPunct = NULL,  
    lnSpc = NULL,  
    spcBef = NULL,  
    spcAft = NULL,  
    tabLst = NULL,  
    defRPr = NULL,  
    extLst = NULL,  
    buClrTx = NULL,  
    buClr = NULL,  
    buSzTx = NULL,  
    buSzPct = NULL,  
    buSzPts = NULL,  
    buFontTx = NULL,  
    buFont = NULL,  
    buNone = NULL,  
    buAutoNum = NULL,  
    buChar = NULL,  
    buBlip = NULL,  
    ...  
)
```

Arguments

marL	marL
marR	marR
lvl	lvl

indent	indent
algn	algn
defTabSz	defTabSz
rtl	rtl
eaLnBrk	eaLnBrk
fontAlgn	fontAlgn
latinLnBrk	latinLnBrk
hangingPunct	hangingPunct
lnSpc	lnSpc
spcBef	spcBef
spcAft	spcAft
tabLst	tabLst
defRPr	defRPr
extLst	extLst
buClrTx	buClrTx
buClr	buClr
buSzTx	buSzTx
buSzPct	buSzPct
buSzPts	buSzPts
buFontTx	buFontTx
buFont	buFont
buNone	buNone
buAutoNum	buAutoNum
buChar	buChar
buBlip	buBlip
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ParagraphProperties()  
  
## End(Not run)
```

 Path2D

*Path2D***Description**

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Path2D(w = NULL, h = NULL, fill = NULL, stroke = NULL, extrusionOk = NULL, ...)
```

Arguments

w	w
h	h
fill	fill
stroke	stroke
extrusionOk	extrusionOk
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Path2D(w = 1L, h = 1L)

## End(Not run)
```

 Path2DList

*Path2DList***Description**

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Path2DList(path = NULL, ...)
```

Arguments

path	path
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Path2DList()  
  
## End(Not run)
```

PathShadeProperties *PathShadeProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
PathShadeProperties(path = NULL, fillToRect = NULL, ...)
```

Arguments

path	path
fillToRect	fillToRect
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PathShadeProperties(path = "circle")  
  
## End(Not run)
```

PatternFill

PatternFill

Description

Area fill patterns for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fills.html>

Usage

```
PatternFill(  
    patternType = NULL,  
    fill_type = NULL,  
    start_color = NULL,  
    end_color = NULL,  
    ...  
)
```

Arguments

patternType	patternType
fill_type	fill_type
start_color	start_color
end_color	end_color
...	Additional arguments, i.e. kwargs.

Details

Caution: if you do not specify a fill_type, other attributes will have no effect !

Value

An openpyxl Python object.

Caution

if you do not specify a fill_type, other attributes will have: no effect !

Examples

```
## Not run:  
PatternFill()  
  
## End(Not run)
```

PatternFillProperties *PatternFillProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
PatternFillProperties(prst = NULL, fgClr = NULL, bgClr = NULL, ...)
```

Arguments

prst	prst
fgClr	fgClr
bgClr	bgClr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PatternFillProperties()  
  
## End(Not run)
```

PhoneticProperties *PhoneticProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.text.html>

Usage

```
PhoneticProperties(fontId = NULL, type = NULL, alignment = NULL, ...)
```

Arguments

fontId	fontId
type	type
alignment	alignment
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PhoneticProperties(fontId = 1L)

## End(Not run)
```

PhoneticText

PhoneticText

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.text.html>

Usage

```
PhoneticText(sb = NULL, eb = NULL, t = NULL, ...)
```

Arguments

sb	sb
eb	eb
t	t
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PhoneticText(sb = 1L, eb = 1L)

## End(Not run)
```

PieChart	<i>PieChart</i>
----------	-----------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pie_chart.html

Usage

```
PieChart(firstSliceAng = 0L, extLst = NULL, ...)
```

Arguments

firstSliceAng	firstSliceAng
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PieChart()

## End(Not run)
```

PieChart3D	<i>PieChart3D</i>
------------	-------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pie_chart.html

Usage

```
PieChart3D(varyColors = TRUE, ser = list(), dLbIs = NULL, ...)
```

Arguments

varyColors	varyColors
ser	ser
dLbIs	dLbIs
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PieChart3D()

## End(Not run)
```

PivotFormat

PivotFormat

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pivot.html>

Usage

```
PivotFormat(
    idx = 0L,
    spPr = NULL,
    txPr = NULL,
    marker = NULL,
    dLbl = NULL,
    extLst = NULL,
    ...
)
```

Arguments

idx	idx
spPr	spPr
txPr	txPr
marker	marker
dLbl	dLbl
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PivotFormat()  
  
## End(Not run)
```

PivotSource

PivotSource

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pivot.html>

Usage

```
PivotSource(name = NULL, fmtId = NULL, extLst = NULL, ...)
```

Arguments

name	name
fmtId	fmtId
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PivotSource(fmtId = 1L)  
  
## End(Not run)
```

`pixels_to_EMU` *pixels_to_EMU*

Description

1 pixel = 9525 EMUs

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

`pixels_to_EMU(value, ...)`

Arguments

<code>value</code>	value
<code>...</code>	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:
pixels_to_EMU(value = 1L)

## End(Not run)
```

`pixels_to_points` *pixels_to_points*

Description

96 dpi, 72i

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

`pixels_to_points(value, dpi = 96L, ...)`

Arguments

<code>value</code>	value
<code>dpi</code>	dpi
<code>...</code>	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:
pixels_to_points(value = 1L)

## End(Not run)
```

PlotArea

PlotArea

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.plotarea.html>

Usage

```
PlotArea(
  layout = NULL,
  dTable = NULL,
  spPr = NULL,
  charts = list(),
  axes = list(),
  extLst = NULL,
  ...
)
```

Arguments

layout	layout
dTable	dTable
spPr	spPr
charts	_charts
axes	_axes
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PlotArea()  
  
## End(Not run)
```

Point2D

Point2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Point2D(x = NULL, y = NULL, ...)
```

Arguments

x	x
y	y
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Point2D(x = 1L, y = 1L)  
  
## End(Not run)
```

Point3D	<i>Point3D</i>
---------	----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Point3D(x = NULL, y = NULL, z = NULL, ...)
```

Arguments

x	x
y	y
z	z
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Point3D(x = 1L, y = 1L, z = 1L)

## End(Not run)
```

points_to_pixels	<i>points_to_pixels</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
points_to_pixels(value, dpi = 96L, ...)
```

Arguments

value	value
dpi	dpi
...	Additional arguments, i.e. kwargs.

Value

A numeric value.

Examples

```
## Not run:  
points_to_pixels(value = 1L)  
  
## End(Not run)
```

PositiveSize2D

PositiveSize2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
PositiveSize2D(cx = NULL, cy = NULL, ...)
```

Arguments

cx	cx
cy	cy
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PositiveSize2D(cx = 1L, cy = 1L)  
  
## End(Not run)
```

PresetGeometry2D *PresetGeometry2D*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
PresetGeometry2D(prst = NULL, avLst = NULL, ...)
```

Arguments

prst	prst
avLst	avLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PresetGeometry2D(prst = "diamond")  
  
## End(Not run)
```

PresetShadowEffect *PresetShadowEffect*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
PresetShadowEffect(prst = NULL, dist = NULL, dir = NULL, ...)
```

Arguments

prst	prst
dist	dist
dir	dir
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PresetShadowEffect(prst = "shdw20", dist = 1L, dir = 1L)  
  
## End(Not run)
```

PrintArea

PrintArea

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.print_settings.html

Usage

```
PrintArea(ranges = list(), title = "", ...)
```

Arguments

<code>ranges</code>	ranges
<code>title</code>	title
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PrintArea()  
  
## End(Not run)
```

PrintOptions

PrintOptions

Description

Worksheet print options

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.page.html>

Usage

```
PrintOptions(  
    horizontalCentered = NULL,  
    verticalCentered = NULL,  
    headings = NULL,  
    gridLines = NULL,  
    gridLinesSet = NULL,  
    ...  
)
```

Arguments

horizontalCentered	horizontalCentered
verticalCentered	verticalCentered
headings	headings
gridLines	gridLines
gridLinesSet	gridLinesSet
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
PrintOptions()  
  
## End(Not run)
```

PrintPageSetup	<i>PrintPageSetup</i>
----------------	-----------------------

Description

Worksheet print page setup

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.page.html>

Usage

```
PrintPageSetup(  
    worksheet = NULL,  
    orientation = NULL,  
    paperSize = NULL,  
    scale = NULL,  
    fitToHeight = NULL,  
    fitToWidth = NULL,  
    firstPageNumber = NULL,  
    useFirstPageNumber = NULL,  
    paperHeight = NULL,  
    paperWidth = NULL,  
    pageOrder = NULL,  
    usePrinterDefaults = NULL,  
    blackAndWhite = NULL,  
    draft = NULL,  
    cellComments = NULL,  
    errors = NULL,  
    horizontalDpi = NULL,  
    verticalDpi = NULL,  
    copies = NULL,  
    id = NULL,  
    ...  
)
```

Arguments

worksheet	worksheet
orientation	orientation
paperSize	paperSize
scale	scale
fitToHeight	fitToHeight
fitToWidth	fitToWidth
firstPageNumber	firstPageNumber

useFirstPageNumber	useFirstPageNumber
paperHeight	paperHeight
paperWidth	paperWidth
pageOrder	pageOrder
usePrinterDefaults	usePrinterDefaults
blackAndWhite	blackAndWhite
draft	draft
cellComments	cellComments
errors	errors
horizontalDpi	horizontalDpi
verticalDpi	verticalDpi
copies	copies
id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PrintPageSetup()

## End(Not run)
```

PrintSettings

PrintSettings

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.print_settings.html

Usage

```
PrintSettings(headerFooter = NULL, pageMargins = NULL, pageSetup = NULL, ...)
```

Arguments

headerFooter	headerFooter
pageMargins	pageMargins
pageSetup	pageSetup
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PrintSettings()

## End(Not run)
```

 PrintTitles

PrintTitles

Description

Contains at least either a range of rows or columns

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.print_settings.html

Usage

```
PrintTitles(cols = NULL, rows = NULL, title = "", ...)
```

Arguments

cols	cols
rows	rows
title	title
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
PrintTitles()

## End(Not run)
```

ProjectedPieChart *ProjectedPieChart*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.pie_chart.html

Usage

```
ProjectedPieChart(
    ofPieType = "pie",
    gapWidth = NULL,
    splitType = "auto",
    splitPos = NULL,
    custSplit = NULL,
    secondPieSize = 75L,
    serLines = NULL,
    extLst = NULL,
    ...
)
```

Arguments

ofPieType	ofPieType
gapWidth	gapWidth
splitType	splitType
splitPos	splitPos
custSplit	custSplit
secondPieSize	secondPieSize
serLines	serLines
extLst	extLst
...	Additional arguments, i.e. kwargs.

Details

This element contains the pie of pie or bar of pie series on this chart. Only the first series shall be displayed. The splitType element shall determine whether the splitPos and custSplit elements apply.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ProjectedPieChart()  
  
## End(Not run)
```

Protection

Protection

Description

Protection options for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.protection.html>

Usage

```
Protection(locked = TRUE, hidden = FALSE, ...)
```

Arguments

locked	locked
hidden	hidden
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Protection()  
  
## End(Not run)
```

quote_sheetname	<i>quote_sheetname</i>
-----------------	------------------------

Description

Add quotes around sheetnames if they contain spaces.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
quote_sheetname(sheetname, ...)
```

Arguments

sheetname	sheetname
...	Additional arguments, i.e. kwargs.

Value

An string.

Examples

```
## Not run:
wb <- Workbook()
quote_sheetname(wb$sheetnames)

## End(Not run)
```

RadarChart	<i>RadarChart</i>
------------	-------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.radar_chart.html

Usage

```
RadarChart(
  radarStyle = "standard",
  varyColors = NULL,
  ser = list(),
  dLbls = NULL,
  extLst = NULL,
  ...
)
```

Arguments

radarStyle	radarStyle
varyColors	varyColors
ser	ser
dLbls	dLbls
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
RadarChart()

## End(Not run)
```

range_boundaries *range_boundaries*

Description

Convert a range string into a list of boundaries:

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
range_boundaries(range_string, ...)
```

Arguments

range_string	range_string
...	Additional arguments, i.e. kwargs.

Details

(min_col, min_row, max_col, max_row) Cell coordinates will be converted into a range with the cell at both end

Value

An list.

Convert a range string into a tuple of boundaries

(min_col, min_row, max_col, max_row) Cell coordinates will be converted into a range with the cell at both end

Examples

```
## Not run:
range_boundaries(range_string = "A")

## End(Not run)
```

range_to_tuple	<i>range_to_tuple</i>
----------------	-----------------------

Description

Convert a worksheet range to the sheetname and maximum and minimum coordinate indices

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
range_to_tuple(range_string, ...)
```

Arguments

range_string	range_string
...	Additional arguments, i.e. kwargs.

Value

An list.

Examples

```
## Not run:
range_to_tuple(range_string = "sheetname!A1:E4")

## End(Not run)
```

ReadOnlyCell	<i>ReadOnlyCell</i>
--------------	---------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.read_only.html

Usage

```
ReadOnlyCell(sheet, row, column, value, data_type = "n", style_id = 0L, ...)
```

Arguments

sheet	sheet
row	row
column	column
value	value
data_type	data_type
style_id	style_id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ReadOnlyCell(sheet = "sheet", row = 1L, column = 1L, value = 1L)

## End(Not run)
```

Reference	<i>Reference</i>
-----------	------------------

Description

Normalise cell range references

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.reference.html>

Usage

```
Reference(
  worksheet = NULL,
  min_col = NULL,
  min_row = NULL,
  max_col = NULL,
  max_row = NULL,
  range_string = NULL,
  ...
)
```

Arguments

worksheet	worksheet
min_col	min_col
min_row	min_row
max_col	max_col
max_row	max_row
range_string	range_string
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
Reference(worksheet = wb$active, min_col = 1L, min_row = 1L, max_col = 1L, max_row = 1L)

## End(Not run)
```

RegularTextRun

RegularTextRun

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
RegularTextRun(rPr = NULL, t = "", ...)
```

Arguments

rPr	rPr
t	t
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
RegularTextRun()

## End(Not run)
```

Related

Related

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.related.html>

Usage

```
Related(id = NULL, ...)
```

Arguments

id	id
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Related()

## End(Not run)
```

RelativeRect	<i>RelativeRect</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
RelativeRect(l = NULL, t = NULL, r = NULL, b = NULL, ...)
```

Arguments

l	l
t	t
r	r
b	b
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
RelativeRect()  
  
## End(Not run)
```

RichTextProperties	<i>RichTextProperties</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```

RichTextProperties(
    rot = NULL,
    spcFirstLastPara = NULL,
    vertOverflow = NULL,
    horzOverflow = NULL,
    vert = NULL,
    wrap = NULL,
    lIns = NULL,
    tIns = NULL,
    rIns = NULL,
    bIns = NULL,
    numCol = NULL,
    spcCol = NULL,
    rtlCol = NULL,
    fromWordArt = NULL,
    anchor = NULL,
    anchorCtr = NULL,
    forceAA = NULL,
    upright = NULL,
    compatLnSpc = NULL,
    prstTxWarp = NULL,
    scene3d = NULL,
    extLst = NULL,
    noAutofit = NULL,
    normAutofit = NULL,
    spAutoFit = NULL,
    flatTx = NULL,
    ...
)

```

Arguments

rot	rot
spcFirstLastPara	spcFirstLastPara
vertOverflow	vertOverflow
horzOverflow	horzOverflow
vert	vert
wrap	wrap
lIns	lIns
tIns	tIns
rIns	rIns
bIns	bIns
numCol	numCol

spcCol	spcCol
rtlCol	rtlCol
fromWordArt	fromWordArt
anchor	anchor
anchorCtr	anchorCtr
forceAA	forceAA
upright	upright
compatLnSpc	compatLnSpc
prstTxWarp	prstTxWarp
scene3d	scene3d
extLst	extLst
noAutofit	noAutofit
normAutofit	normAutofit
spAutoFit	spAutoFit
flatTx	flatTx
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
RichTextProperties()

## End(Not run)
```

RowBreak

RowBreak

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.pagebreak.html>

Usage

```
RowBreak(count = NULL, manualBreakCount = NULL, brk = list(), ...)
```

Arguments

count	count
manualBreakCount	manualBreakCount
brk	brk
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
RowBreak()

## End(Not run)
```

RowDimension

RowDimension

Description

Information about the display properties of a row.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```
RowDimension(
    worksheet,
    index = 0L,
    ht = NULL,
    customHeight = NULL,
    s = NULL,
    customFormat = NULL,
    hidden = FALSE,
    outlineLevel = 0L,
    outline_level = NULL,
    collapsed = FALSE,
    visible = NULL,
    height = NULL,
    r = NULL,
    spans = NULL,
    thickBot = NULL,
    thickTop = NULL,
    ...
)
```

Arguments

worksheet	worksheet
index	index
ht	ht
customHeight	customHeight
s	s
customFormat	customFormat
hidden	hidden
outlineLevel	outlineLevel
outline_level	outline_level
collapsed	collapsed
visible	visible
height	height
r	r
spans	spans
thickBot	thickBot
thickTop	thickTop
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
RowDimension(wb$active)

## End(Not run)
```

RowRange

RowRange

Description

Represent a range of at least one row

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.print_settings.html

Usage

```
RowRange(range_string = NULL, min_row = NULL, max_row = NULL, ...)
```

Arguments

range_string	range_string
min_row	min_row
max_row	max_row
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
RowRange(min_row = 1L, max_row = 2L)

## End(Not run)
```

rows_from_range	<i>rows_from_range</i>
-----------------	------------------------

Description

Get individual addresses for every cell in a range.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.cell.html>

Usage

```
rows_from_range(range_string, ...)
```

Arguments

range_string	range_string
...	Additional arguments, i.e. kwargs.

Details

Yields one row at a time.

Value

An openpyxl Python object.

Examples

```
## Not run:
rows_from_range(range_string = "A")

## End(Not run)
```

Rule

Rule

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
Rule(
  type,
  dxId = NULL,
  priority = 0L,
  stopIfTrue = NULL,
  aboveAverage = NULL,
  percent = NULL,
  bottom = NULL,
  operator = NULL,
  text = NULL,
  timePeriod = NULL,
  rank = NULL,
  stdDev = NULL,
  equalAverage = NULL,
  formula = list(),
  colorScale = NULL,
  dataBar = NULL,
  iconSet = NULL,
  extLst = NULL,
  dx = NULL,
  ...
)
```

Arguments

type	type
dxId	dxId
priority	priority
stopIfTrue	stopIfTrue
aboveAverage	aboveAverage

percent	percent
bottom	bottom
operator	operator
text	text
timePeriod	timePeriod
rank	rank
stdDev	stdDev
equalAverage	equalAverage
formula	formula
colorScale	colorScale
dataBar	dataBar
iconSet	iconSet
extLst	extLst
dxfl	dxfl
...	Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:
Rule(type = "colorScale")

## End(Not run)
```

RuleType

RuleType

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Usage

```
RuleType(...)
```

Arguments

... Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:
RuleType()

## End(Not run)
```

save_workbook	<i>save_workbook</i>
---------------	----------------------

Description

Save the given workbook on the filesystem under the name filename.

<https://openpyxl.readthedocs.io/en/latest/api/openpyxl.writer.excel.html>

Usage

```
save_workbook(workbook, filename, ...)
```

Arguments

workbook	workbook
filename	filename
...	Additional arguments, i.e. kwargs.

Details

:param workbook: the workbook to save :type workbook: :class:'openpyxl.workbook.Workbook'

:param filename: the path to which save the workbook :type filename: string :rtype: bool

Value

An openpyxl Python object.

Examples

```
## Not run:
save_workbook(workbook = wb, filename = tempfile())

## End(Not run)
```

Scaling

Scaling

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
Scaling(  
    logBase = NULL,  
    orientation = "minMax",  
    max = NULL,  
    min = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

logBase	logBase
orientation	orientation
max	max
min	min
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Scaling()  
  
## End(Not run)
```

ScatterChart

ScatterChart

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.scatter_chart.html

Usage

```
ScatterChart(  
    scatterStyle = NULL,  
    varyColors = NULL,  
    ser = list(),  
    dLbls = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

scatterStyle	scatterStyle
varyColors	varyColors
ser	ser
dLbls	dLbls
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ScatterChart()  
  
## End(Not run)
```

Scenario

Scenario

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.scenario.html>

Usage

```
Scenario(  
    inputCells = list(),  
    name = NULL,  
    locked = FALSE,  
    hidden = FALSE,  
    count = NULL,  
    user = NULL,  
    comment = NULL,  
    ...  
)
```

Arguments

inputCells	inputCells
name	name
locked	locked
hidden	hidden
count	count
user	user
comment	comment
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Scenario(name = "name")  
  
## End(Not run)
```

ScenarioList	<i>ScenarioList</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.scenario.html>

Usage

```
ScenarioList(scenario = list(), current = NULL, show = NULL, sqref = NULL, ...)
```

Arguments

scenario	scenario
current	current
show	show
sqref	sqref
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
ScenarioList()  
  
## End(Not run)
```

Scene3D	<i>Scene3D</i>
---------	----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Scene3D(camera = NULL, lightRig = NULL, backdrop = NULL, extLst = NULL, ...)
```

Arguments

camera	camera
lightRig	lightRig
backdrop	backdrop
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Scene3D(
  camera = Camera(prst = "perspectiveLeft"),
  lightRig = LightRig(rig = "morning", dir = "t")
)

## End(Not run)
```

SchemeColor

SchemeColor

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.colors.html>

Usage

```
SchemeColor(
  tint = NULL,
  shade = NULL,
  comp = NULL,
  inv = NULL,
  gray = NULL,
  alpha = NULL,
  alphaOff = NULL,
  alphaMod = NULL,
  hue = NULL,
  hueOff = NULL,
  hueMod = NULL,
  sat = NULL,
  satOff = NULL,
  satMod = NULL,
```

```
lum = NULL,  
lumOff = NULL,  
lumMod = NULL,  
red = NULL,  
redOff = NULL,  
redMod = NULL,  
green = NULL,  
greenOff = NULL,  
greenMod = NULL,  
blue = NULL,  
blueOff = NULL,  
blueMod = NULL,  
gamma = NULL,  
invGamma = NULL,  
val = NULL,  
...  
)
```

Arguments

tint	tint
shade	shade
comp	comp
inv	inv
gray	gray
alpha	alpha
alphaOff	alphaOff
alphaMod	alphaMod
hue	hue
hueOff	hueOff
hueMod	hueMod
sat	sat
satOff	satOff
satMod	satMod
lum	lum
lumOff	lumOff
lumMod	lumMod
red	red
redOff	redOff
redMod	redMod
green	green
greenOff	greenOff

```

greenMod      greenMod
blue          blue
blueOff       blueOff
blueMod       blueMod
gamma         gamma
invGamma      invGamma
val           val
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
# from Gradient Pie Charts example
slice <- DataPoint(
  idx = 0,
  explosion = 20,
  spPr = GraphicalProperties(
    gradFill = GradientFillProperties(
      gsLst = list(
        pos=0,
        prstClr='blue'
      ),
      GradientStop(
        pos=100000,
        schemeClr=SchemeColor(
          val='accent1',
          lumMod=30000,
          lumOff=70000
        )
      )
    )
  )
)
## End(Not run)

```

Selection

Selection

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.views.html>

Usage

```

Selection(
    pane = NULL,
    activeCell = "A1",
    activeCellId = NULL,
    sqref = "A1",
    ...
)

```

Arguments

pane	pane
activeCell	activeCell
activeCellId	activeCellId
sqref	sqref
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
Selection()

## End(Not run)

```

Series

Series

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.series.html>

Usage

```

Series(
    values,
    xvalues = NULL,
    zvalues = NULL,
    title = NULL,
    title_from_data = FALSE,
    ...
)

```

Arguments

values	values
xvalues	xvalues
zvalues	zvalues
title	title
title_from_data	title_from_data
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Series(values = "sheetname!A1:E4")

## End(Not run)
```

SeriesAxis

SeriesAxis

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
SeriesAxis(tickLblSkip = NULL, tickMarkSkip = NULL, extLst = NULL, ...)
```

Arguments

tickLblSkip	tickLblSkip
tickMarkSkip	tickMarkSkip
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SeriesAxis()

## End(Not run)
```

SeriesFactory	<i>SeriesFactory</i>
---------------	----------------------

Description

Convenience Factory for creating chart data series.

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.series_factory.html

Usage

```
SeriesFactory(  
    values,  
    xvalues = NULL,  
    zvalues = NULL,  
    title = NULL,  
    title_from_data = FALSE,  
    ...  
)
```

Arguments

values	values
xvalues	xvalues
zvalues	zvalues
title	title
title_from_data	title_from_data
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SeriesFactory(values = "sheetname!A1:E4")  
  
## End(Not run)
```

SeriesLabel	<i>SeriesLabel</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.series.html>

Usage

```
SeriesLabel(strRef = NULL, v = NULL, ...)
```

Arguments

strRef	strRef
v	v
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SeriesLabel()

## End(Not run)
```

set_categories	<i>set_categories</i>
----------------	-----------------------

Description

Set the categories / x-axis values

Usage

```
set_categories(py_obj, labels)
```

Arguments

py_obj	py_obj
labels	labels

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ws <- active(wb)

chart1 <- BarChart(
  type = "col",
  style = 10,
  title = "Bar Chart",
  shape = 4
) |>
  y_axis(title = "Test number") |>
  x_axis(title = "Sample length (mm)")

data <- Reference(ws, min_col=2, min_row=1, max_row=7, max_col=3)
cats <- Reference(ws, min_col=1, min_row=2, max_row=7)

chart1 |>
  add_data(data = data, titles_from_data = TRUE) |>
  set_categories(cats)

## End(Not run)
```

Shape

Shape

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.connector.html>

Usage

```
Shape(
  macro = NULL,
  textlink = NULL,
  fPublished = NULL,
  fLocksText = NULL,
  nvSpPr = NULL,
  spPr = NULL,
  style = NULL,
  txBody = NULL,
  ...
)
```

Arguments

macro	macro
textlink	textlink
fPublished	fPublished
fLocksText	fLocksText
nvSpPr	nvSpPr
spPr	spPr
style	style
txBody	txBody
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Shape(spPr = GraphicalProperties())

## End(Not run)
```

Shape3D

Shape3D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Shape3D(
    z = NULL,
    extrusionH = NULL,
    contourW = NULL,
    prstMaterial = NULL,
    bevelT = NULL,
    bevelB = NULL,
    extrusionClr = NULL,
    contourClr = NULL,
    extLst = NULL,
    ...
)
```

Arguments

z	z
extrusionH	extrusionH
contourW	contourW
prstMaterial	prstMaterial
bevelT	bevelT
bevelB	bevelB
extrusionClr	extrusionClr
contourClr	contourClr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Shape3D()

## End(Not run)
```

ShapeStyle

ShapeStyle

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
ShapeStyle(lnRef = NULL, fillRef = NULL, effectRef = NULL, fontRef = NULL, ...)
```

Arguments

lnRef	lnRef
fillRef	fillRef
effectRef	effectRef
fontRef	fontRef
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
ShapeStyle(
  lnRef = StyleMatrixReference(idx = 1L),
  fillRef = StyleMatrixReference(idx = 1L),
  effectRef = StyleMatrixReference(idx = 1L),
  fontRef = FontReference()
)

## End(Not run)
```

SheetBackgroundPicture

SheetBackgroundPicture

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.picture.html>

Usage

```
SheetBackgroundPicture(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SheetBackgroundPicture()

## End(Not run)
```

SheetDimension	<i>SheetDimension</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```
SheetDimension(ref = NULL, ...)
```

Arguments

ref	ref
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SheetDimension(ref = "ref")  
  
## End(Not run)
```

SheetFormatProperties	<i>SheetFormatProperties</i>
-----------------------	------------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.dimensions.html>

Usage

```
SheetFormatProperties(  
    baseColWidth = 8L,  
    defaultColWidth = NULL,  
    defaultRowHeight = 15L,  
    customHeight = NULL,  
    zeroHeight = NULL,  
    thickTop = NULL,  
    thickBottom = NULL,  
    outlineLevelRow = NULL,
```

```

        outlineLevelCol = NULL,
        ...
    )

```

Arguments

baseColWidth	baseColWidth
defaultColWidth	defaultColWidth
defaultRowHeight	defaultRowHeight
customHeight	customHeight
zeroHeight	zeroHeight
thickTop	thickTop
thickBottom	thickBottom
outlineLevelRow	outlineLevelRow
outlineLevelCol	outlineLevelCol
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
SheetFormatProperties()

## End(Not run)

```

SheetProtection

SheetProtection

Description

Information about protection of various aspects of a sheet. TRUE values

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.protection.html>

Usage

```

SheetProtection(
    sheet = FALSE,
    objects = FALSE,
    scenarios = FALSE,
    formatCells = TRUE,
    formatRows = TRUE,
    formatColumns = TRUE,
    insertColumns = TRUE,
    insertRows = TRUE,
    insertHyperlinks = TRUE,
    deleteColumns = TRUE,
    deleteRows = TRUE,
    selectLockedCells = FALSE,
    selectUnlockedCells = FALSE,
    sort = TRUE,
    autoFilter = TRUE,
    pivotTables = TRUE,
    password = NULL,
    algorithmName = NULL,
    saltValue = NULL,
    spinCount = NULL,
    hashValue = NULL,
    ...
)

```

Arguments

sheet	sheet
objects	objects
scenarios	scenarios
formatCells	formatCells
formatRows	formatRows
formatColumns	formatColumns
insertColumns	insertColumns
insertRows	insertRows
insertHyperlinks	insertHyperlinks
deleteColumns	deleteColumns
deleteRows	deleteRows
selectLockedCells	selectLockedCells
selectUnlockedCells	selectUnlockedCells
sort	sort

```

autoFilter      autoFilter
pivotTables     pivotTables
password        password
algorithmName   algorithmName
saltValue       saltValue
spinCount       spinCount
hashValue       hashValue
...             Additional arguments, i.e. kwargs.

```

Details

mean that protection for the object or action is active This is the ****default**** when protection is active, ie. users cannot do something

Value

An openpyxl Python object.

Examples

```

## Not run:
SheetProtection()

## End(Not run)

```

SheetView

SheetView

Description

Information about the visible portions of this sheet.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.views.html>

Usage

```

SheetView(
    windowProtection = NULL,
    showFormulas = NULL,
    showGridLines = NULL,
    showRowColHeaders = NULL,
    showZeros = NULL,
    rightToLeft = NULL,
    tabSelected = NULL,
    showRuler = NULL,
    showOutlineSymbols = NULL,

```

```

    defaultGridColor = NULL,
    showWhiteSpace = NULL,
    view = NULL,
    topLeftCell = NULL,
    colorId = NULL,
    zoomScale = NULL,
    zoomScaleNormal = NULL,
    zoomScaleSheetLayoutView = NULL,
    zoomScalePageLayoutView = NULL,
    zoomToFit = NULL,
    workbookViewId = 0L,
    selection = NULL,
    pane = NULL,
    ...
)

```

Arguments

windowProtection	windowProtection
showFormulas	showFormulas
showGridLines	showGridLines
showRowColHeaders	showRowColHeaders
showZeros	showZeros
rightToLeft	rightToLeft
tabSelected	tabSelected
showRuler	showRuler
showOutlineSymbols	showOutlineSymbols
defaultGridColor	defaultGridColor
showWhiteSpace	showWhiteSpace
view	view
topLeftCell	topLeftCell
colorId	colorId
zoomScale	zoomScale
zoomScaleNormal	zoomScaleNormal
zoomScaleSheetLayoutView	zoomScaleSheetLayoutView
zoomScalePageLayoutView	zoomScalePageLayoutView
zoomToFit	zoomToFit

```

workbookViewId workbookViewId
selection       selection
pane           pane
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
SheetView()

## End(Not run)

```

SheetViewList	<i>SheetViewList</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.views.html>

Usage

```
SheetViewList(sheetView = NULL, extLst = NULL, ...)
```

Arguments

```

sheetView       sheetView
extLst         extLst
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
SheetViewList()

## End(Not run)

```

short_color	<i>short_color</i>
-------------	--------------------

Description

format a color to its short size

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.utils.units.html>

Usage

```
short_color(color, ...)
```

Arguments

color	color
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
short_color(color = "color")

## End(Not run)
```

Side	<i>Side</i>
------	-------------

Description

Border options for use in styles.

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.borders.html>

Usage

```
Side(style = NULL, color = NULL, border_style = NULL, ...)
```

Arguments

style	style
color	color
border_style	border_style
...	Additional arguments, i.e. kwargs.

Details

Caution: if you do not specify a `border_style`, other attributes will have no effect !

Value

An openpyxl Python object.

Caution

if you do not specify a `border_style`, other attributes will: have no effect !

Examples

```
## Not run:
Side()

## End(Not run)
```

SmartTag

SmartTag

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.smart_tags.html

Usage

```
SmartTag(namespaceUri = NULL, name = NULL, url = NULL, ...)
```

Arguments

<code>namespaceUri</code>	<code>namespaceUri</code>
<code>name</code>	<code>name</code>
<code>url</code>	<code>url</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SmartTag()

## End(Not run)
```

SmartTagList	<i>SmartTagList</i>
--------------	---------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.smart_tags.html

Usage

```
SmartTagList(smartTagType = list(), ...)
```

Arguments

smartTagType	smartTagType
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SmartTagList()  
  
## End(Not run)
```

SmartTagProperties	<i>SmartTagProperties</i>
--------------------	---------------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.smart_tags.html

Usage

```
SmartTagProperties(embed = NULL, show = NULL, ...)
```

Arguments

embed	embed
show	show
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SmartTagProperties()  
  
## End(Not run)
```

SmartTags

SmartTags

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.smart_tag.html

Usage

```
SmartTags(cellSmartTags = list(), ...)
```

Arguments

```
cellSmartTags  cellSmartTags  
...           Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
SmartTags()  
  
## End(Not run)
```

SoftEdgesEffect	<i>SoftEdgesEffect</i>
-----------------	------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
SoftEdgesEffect(rad = NULL, ...)
```

Arguments

rad	rad
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SoftEdgesEffect(rad = 1L)

## End(Not run)
```

SolidColorFillProperties	<i>SolidColorFillProperties</i>
--------------------------	---------------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
SolidColorFillProperties(
    scrgbClr = NULL,
    srgbClr = NULL,
    hslClr = NULL,
    sysClr = NULL,
    schemeClr = NULL,
    prstClr = NULL,
    ...
)
```

Arguments

scrgbClr	scrgbClr
srgbClr	srgbClr
hslClr	hslClr
sysClr	sysClr
schemeClr	schemeClr
prstClr	prstClr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SolidColorFillProperties()  
  
## End(Not run)
```

SortCondition

SortCondition

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
SortCondition(  
    ref = NULL,  
    descending = NULL,  
    sortBy = NULL,  
    customList = NULL,  
    dxfId = NULL,  
    iconSet = NULL,  
    iconId = NULL,  
    ...  
)
```

Arguments

ref	ref
descending	descending
sortBy	sortBy
customList	customList
dxflId	dxflId
iconSet	iconSet
iconId	iconId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SortCondition()  
  
## End(Not run)
```

SortState

SortState

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.filters.html>

Usage

```
SortState(  
    columnSort = NULL,  
    caseSensitive = NULL,  
    sortMethod = NULL,  
    ref = NULL,  
    sortCondition = list(),  
    extLst = NULL,  
    ...  
)
```

Arguments

columnSort	columnSort
caseSensitive	caseSensitive
sortMethod	sortMethod
ref	ref
sortCondition	sortCondition
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SortState()

## End(Not run)
```

Spacing

Spacing

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
Spacing(spcPct = NULL, spcPts = NULL, ...)
```

Arguments

spcPct	spcPct
spcPts	spcPts
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Spacing()  
  
## End(Not run)
```

SphereCoords

SphereCoords

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
SphereCoords(lat = NULL, lon = NULL, rev = NULL, ...)
```

Arguments

lat	lat
lon	lon
rev	rev
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SphereCoords(lat = 1L, lon = 1L, rev = 1L)  
  
## End(Not run)
```

SpreadsheetDrawing *SpreadsheetDrawing*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
SpreadsheetDrawing(  
    twoCellAnchor = list(),  
    oneCellAnchor = list(),  
    absoluteAnchor = list(),  
    ...  
)
```

Arguments

twoCellAnchor	twoCellAnchor
oneCellAnchor	oneCellAnchor
absoluteAnchor	absoluteAnchor
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SpreadsheetDrawing()  
  
## End(Not run)
```

StockChart *StockChart*

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.stock_chart.html

Usage

```

StockChart(
    ser = list(),
    dLbIs = NULL,
    dropLines = NULL,
    hiLowLines = NULL,
    upDownBars = NULL,
    extLst = NULL,
    ...
)

```

Arguments

ser	ser
dLbIs	dLbIs
dropLines	dropLines
hiLowLines	hiLowLines
upDownBars	upDownBars
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```

## Not run:
StockChart()

## End(Not run)

```

Stop

Stop

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fills.html>

Usage

```

Stop(color, position, ...)

```

Arguments

color	color
position	position
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Stop(color = Color(), position = 1L)

## End(Not run)
```

StopList

StopList

Description

A sequence (list or list) that may only contain objects of the declared

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.fills.html>

Usage

```
StopList(name = NULL, ...)
```

Arguments

name	name
...	Additional arguments, i.e. kwargs.

Details

type

Value

An openpyxl Python object.

Examples

```
## Not run:
StopList()

## End(Not run)
```

StrData	<i>StrData</i>
---------	----------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
StrData(ptCount = NULL, pt = list(), extLst = NULL, ...)
```

Arguments

ptCount	ptCount
pt	pt
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
StrData()  
  
## End(Not run)
```

StretchInfoProperties	<i>StretchInfoProperties</i>
-----------------------	------------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.fill.html>

Usage

```
StretchInfoProperties(...)
```

Arguments

...	Additional arguments, i.e. kwargs.
-----	------------------------------------

Value

An openpyxl Python object.

Examples

```
## Not run:
StretchInfoProperties()

## End(Not run)
```

StrRef

StrRef

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
StrRef(f = NULL, strCache = NULL, extLst = NULL, ...)
```

Arguments

f	f
strCache	strCache
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
StrRef()

## End(Not run)
```

StrVal	<i>StrVal</i>
--------	---------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.data_source.html

Usage

```
StrVal(idx = 0L, v = NULL, ...)
```

Arguments

idx	idx
v	v
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
StrVal()

## End(Not run)
```

StyleArray	<i>StyleArray</i>
------------	-------------------

Description

Simplified named list with an array

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.cell_style.html

Usage

```
StyleArray(args = c(0L, 0L, 0L, 0L, 0L, 0L, 0L, 0L, 0L), ...)
```

Arguments

args	args
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
StyleArray()  
  
## End(Not run)
```

StyleMatrixReference *StyleMatrixReference*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
StyleMatrixReference(idx = NULL, ...)
```

Arguments

idx	idx
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
StyleMatrixReference(idx = 1L)  
  
## End(Not run)
```

Stylesheet

Stylesheet

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.stylesheet.html>

Usage

```
Stylesheet(  
    numFmts = NULL,  
    fonts = list(),  
    fills = list(),  
    borders = list(),  
    cellStyleXfs = NULL,  
    cellXfs = NULL,  
    cellStyles = NULL,  
    dxfs = list(),  
    tableStyles = NULL,  
    colors = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

numFmts	numFmts
fonts	fonts
fills	fills
borders	borders
cellStyleXfs	cellStyleXfs
cellXfs	cellXfs
cellStyles	cellStyles
dxfs	dxfs
tableStyles	tableStyles
colors	colors
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Stylesheet()  
  
## End(Not run)
```

SurfaceChart

SurfaceChart

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.surface_chart.html

Usage

```
SurfaceChart(wireframe = NULL, ser = list(), bandFmts = NULL, ...)
```

Arguments

wireframe	wireframe
ser	ser
bandFmts	bandFmts
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SurfaceChart()  
  
## End(Not run)
```

SurfaceChart3D	<i>SurfaceChart3D</i>
----------------	-----------------------

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.surface_chart.html

Usage

```
SurfaceChart3D(wireframe = NULL, ser = list(), bandFmts = NULL, ...)
```

Arguments

wireframe	wireframe
ser	ser
bandFmts	bandFmts
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
SurfaceChart3D()

## End(Not run)
```

SystemColor	<i>SystemColor</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.colors.html>

Usage

```
SystemColor(  
    val = "windowText",  
    lastClr = NULL,  
    tint = NULL,  
    shade = NULL,  
    comp = NULL,  
    inv = NULL,  
    gray = NULL,  
    alpha = NULL,  
    alphaOff = NULL,  
    alphaMod = NULL,  
    hue = NULL,  
    hueOff = NULL,  
    hueMod = NULL,  
    sat = NULL,  
    satOff = NULL,  
    satMod = NULL,  
    lum = NULL,  
    lumOff = NULL,  
    lumMod = NULL,  
    red = NULL,  
    redOff = NULL,  
    redMod = NULL,  
    green = NULL,  
    greenOff = NULL,  
    greenMod = NULL,  
    blue = NULL,  
    blueOff = NULL,  
    blueMod = NULL,  
    gamma = NULL,  
    invGamma = NULL,  
    ...  
)
```

Arguments

val	val
lastClr	lastClr
tint	tint
shade	shade
comp	comp
inv	inv
gray	gray
alpha	alpha
alphaOff	alphaOff

alphaMod	alphaMod
hue	hue
hueOff	hueOff
hueMod	hueMod
sat	sat
satOff	satOff
satMod	satMod
lum	lum
lumOff	lumOff
lumMod	lumMod
red	red
redOff	redOff
redMod	redMod
green	green
greenOff	greenOff
greenMod	greenMod
blue	blue
blueOff	blueOff
blueMod	blueMod
gamma	gamma
invGamma	invGamma
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
SystemColor()  
  
## End(Not run)
```

 Table

*Table***Description**

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```

Table(
    id = 1L,
    displayName,
    ref = NULL,
    name = NULL,
    comment = NULL,
    tableType = NULL,
    headerRowCount = 1L,
    insertRow = NULL,
    insertRowShift = NULL,
    totalsRowCount = NULL,
    totalsRowShown = NULL,
    published = NULL,
    headerRowDxfId = NULL,
    dataDxfId = NULL,
    totalsRowDxfId = NULL,
    headerRowBorderDxfId = NULL,
    tableBorderDxfId = NULL,
    totalsRowBorderDxfId = NULL,
    headerRowCellStyle = NULL,
    dataCellStyle = NULL,
    totalsRowCellStyle = NULL,
    connectionId = NULL,
    autoFilter = NULL,
    sortState = NULL,
    tableColumns = list(),
    tableStyleInfo = NULL,
    extLst = NULL,
    ...
)

```

Arguments

id	id
displayName	displayName
ref	ref
name	name

comment	comment
tableType	tableType
headerRowCount	headerRowCount
insertRow	insertRow
insertRowShift	insertRowShift
totalsRowCount	totalsRowCount
totalsRowShown	totalsRowShown
published	published
headerRowDxfId	headerRowDxfId
dataDxfId	dataDxfId
totalsRowDxfId	totalsRowDxfId
headerRowBorderDxfId	headerRowBorderDxfId
tableBorderDxfId	tableBorderDxfId
totalsRowBorderDxfId	totalsRowBorderDxfId
headerRowCellStyle	headerRowCellStyle
dataCellStyle	dataCellStyle
totalsRowCellStyle	totalsRowCellStyle
connectionId	connectionId
autoFilter	autoFilter
sortState	sortState
tableColumns	tableColumns
tableStyleInfo	tableStyleInfo
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Table(displayName = "displayName")

## End(Not run)
```

TableColumn	<i>TableColumn</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```

TableColumn(
    id = NULL,
    uniqueName = NULL,
    name = NULL,
    totalsRowFunction = NULL,
    totalsRowLabel = NULL,
    queryTableFieldId = NULL,
    headerRowDxfId = NULL,
    dataDxfId = NULL,
    totalsRowDxfId = NULL,
    headerRowCellStyle = NULL,
    dataCellStyle = NULL,
    totalsRowCellStyle = NULL,
    calculatedColumnFormula = NULL,
    totalsRowFormula = NULL,
    xmlColumnPr = NULL,
    extLst = NULL,
    ...
)

```

Arguments

id	id
uniqueName	uniqueName
name	name
totalsRowFunction	totalsRowFunction
totalsRowLabel	totalsRowLabel
queryTableFieldId	queryTableFieldId
headerRowDxfId	headerRowDxfId
dataDxfId	dataDxfId
totalsRowDxfId	totalsRowDxfId
headerRowCellStyle	headerRowCellStyle
dataCellStyle	dataCellStyle

```

totalsRowCellStyle
    totalsRowCellStyle
calculatedColumnFormula
    calculatedColumnFormula
totalsRowFormula
    totalsRowFormula
xmlColumnPr    xmlColumnPr
extLst         extLst
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
TableColumn(id = 1L, name = "name")

## End(Not run)

```

TableFormula	<i>TableFormula</i>
--------------	---------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```
TableFormula(array = NULL, attr_text = NULL, ...)
```

Arguments

```

array          array
attr_text      attr_text
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
TableFormula()

## End(Not run)

```

TableNameDescriptor	<i>TableNameDescriptor</i>
---------------------	----------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```
TableNameDescriptor(...)
```

Arguments

... Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TableNameDescriptor()

## End(Not run)
```

TablePartList	<i>TablePartList</i>
---------------	----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```
TablePartList(count = NULL, tablePart = list(), ...)
```

Arguments

count	count
tablePart	tablePart
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
TablePartList()  
  
## End(Not run)
```

TableStyle	<i>TableStyle</i>
------------	-------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.table.html>

Usage

```
TableStyle(  
    name = NULL,  
    pivot = NULL,  
    table = NULL,  
    count = NULL,  
    tableStyleElement = list(),  
    ...  
)
```

Arguments

name	name
pivot	pivot
table	table
count	count
tableStyleElement	tableStyleElement
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
TableStyle(name = "name")  
  
## End(Not run)
```

TableStyleElement	<i>TableStyleElement</i>
-------------------	--------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.table.html>

Usage

```
TableStyleElement(type = NULL, size = NULL, dxId = NULL, ...)
```

Arguments

type	type
size	size
dxId	dxId
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TableStyleElement(type = "secondSubtotalRow")

## End(Not run)
```

TableStyleInfo	<i>TableStyleInfo</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```
TableStyleInfo(
    name = NULL,
    showFirstColumn = NULL,
    showLastColumn = NULL,
    showRowStripes = NULL,
    showColumnStripes = NULL,
    ...
)
```

Arguments

name	name
showFirstColumn	showFirstColumn
showLastColumn	showLastColumn
showRowStripes	showRowStripes
showColumnStripes	showColumnStripes
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TableStyleInfo()

## End(Not run)
```

TableStyleList	<i>TableStyleList</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.table.html>

Usage

```
TableStyleList(
    count = NULL,
    defaultTableStyle = "TableStyleMedium9",
    defaultPivotStyle = "PivotStyleLight16",
    tableStyle = list(),
    ...
)
```

Arguments

count	count
defaultTableStyle	defaultTableStyle
defaultPivotStyle	defaultPivotStyle
tableStyle	tableStyle
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TableStyleList()

## End(Not run)
```

TextAxis

TextAxis

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.axis.html>

Usage

```
TextAxis(
    auto = NULL,
    lblAlgn = NULL,
    lblOffset = 100L,
    tickLblSkip = NULL,
    tickMarkSkip = NULL,
    noMultiLvlLbl = NULL,
    extLst = NULL,
    ...
)
```

Arguments

auto	auto
lblAlgn	lblAlgn
lblOffset	lblOffset
tickLblSkip	tickLblSkip
tickMarkSkip	tickMarkSkip
noMultiLvlLbl	noMultiLvlLbl
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
TextAxis()  
  
## End(Not run)
```

TextBlock

TextBlock

Description

Represents text string in a specific format

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.rich_text.html

Usage

```
TextBlock(font, text, ...)
```

Arguments

font	font
text	text
...	Additional arguments, i.e. kwargs.

Details

This class is used as part of constructing a rich text strings.

Value

An openpyxl Python object.

Examples

```
## Not run:  
TextBlock(font = InlineFont(), text = "text")  
  
## End(Not run)
```

 TextField

TextField

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
TextField(id = NULL, type = NULL, rPr = NULL, pPr = NULL, t = NULL, ...)
```

Arguments

id	id
type	type
rPr	rPr
pPr	pPr
t	t
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TextField(id = "id")

## End(Not run)
```

 TextNormalAutofit

TextNormalAutofit

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.text.html>

Usage

```
TextNormalAutofit(fontScale = NULL, lnSpcReduction = NULL, ...)
```

Arguments

```

fontScale      fontScale
lnSpcReduction lnSpcReduction
...           Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
TextNormalAutofit(fontScale = 1L, lnSpcReduction = 1L)

## End(Not run)

```

TintEffect

TintEffect

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.effect.html>

Usage

```
TintEffect(hue = 0L, amt = 0L, ...)
```

Arguments

```

hue           hue
amt          amt
...         Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
TintEffect()

## End(Not run)

```

Title

Title

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.title.html>

Usage

```
Title(  
    tx = NULL,  
    layout = NULL,  
    overlay = NULL,  
    spPr = NULL,  
    txPr = NULL,  
    extLst = NULL,  
    ...  
)
```

Arguments

tx	tx
layout	layout
overlay	overlay
spPr	spPr
txPr	txPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Title()  
  
## End(Not run)
```

TitleDescriptor	<i>TitleDescriptor</i>
-----------------	------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.title.html>

Usage

```
TitleDescriptor(...)
```

Arguments

```
... Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:  
TitleDescriptor()  
  
## End(Not run)
```

title_maker	<i>title_maker</i>
-------------	--------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.title.html>

Usage

```
title_maker(text, ...)
```

Arguments

```
text          text  
...          Additional arguments, i.e. kwargs.
```

Value

An openpyxl Python object.

Examples

```
## Not run:
title_maker(text = "text")

## End(Not run)
```

 Transform2D

Transform2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Transform2D(
  rot = NULL,
  flipH = NULL,
  flipV = NULL,
  off = NULL,
  ext = NULL,
  chOff = NULL,
  chExt = NULL,
  ...
)
```

Arguments

rot	rot
flipH	flipH
flipV	flipV
off	off
ext	ext
chOff	chOff
chExt	chExt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Transform2D()

## End(Not run)
```

Trendline

Trendline

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.trendline.html>

Usage

```
Trendline(
  name = NULL,
  spPr = NULL,
  trendlineType = "linear",
  order = NULL,
  period = NULL,
  forward = NULL,
  backward = NULL,
  intercept = NULL,
  dispRSqr = NULL,
  dispEq = NULL,
  trendlineLbl = NULL,
  extLst = NULL,
  ...
)
```

Arguments

name	name
spPr	spPr
trendlineType	trendlineType
order	order
period	period
forward	forward
backward	backward
intercept	intercept
dispRSqr	dispRSqr
dispEq	dispEq

trendlineLbl	trendlineLbl
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Trendline()

## End(Not run)
```

TrendlineLabel	<i>TrendlineLabel</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.trendline.html>

Usage

```
TrendlineLabel(
    layout = NULL,
    tx = NULL,
    numFmt = NULL,
    spPr = NULL,
    txPr = NULL,
    extLst = NULL,
    ...
)
```

Arguments

layout	layout
tx	tx
numFmt	numFmt
spPr	spPr
txPr	txPr
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TrendlineLabel()

## End(Not run)
```

TwoCellAnchor	<i>TwoCellAnchor</i>
---------------	----------------------

Description

Note that the argument ‘_from’ has been transformed to ‘from’.

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.spreadsheet_drawing.html

Usage

```
TwoCellAnchor(editAs = NULL, from = NULL, to = NULL, ...)
```

Arguments

editAs	editAs
from	_from
to	to
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
TwoCellAnchor()

## End(Not run)
```

 UpDownBars

UpDownBars

Description

https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.updown_bars.html

Usage

UpDownBars(gapWidth = 150L, upBars = NULL, downBars = NULL, extLst = NULL, ...)

Arguments

gapWidth	gapWidth
upBars	upBars
downBars	downBars
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
UpDownBars()

## End(Not run)
```

 ValueDescriptor

ValueDescriptor

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.formatting.rule.html>

Expected type depends upon type attribute of parent :-)

Most values should be numeric BUT they can also be cell references

Usage

ValueDescriptor(...)

Arguments

... Additional arguments, i.e. kwargs

Value

An openpyxl Python object.

Examples

```
## Not run:  
ValueDescriptor()  
  
## End(Not run)
```

Vector3D

Vector3D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.geometry.html>

Usage

```
Vector3D(dx = NULL, dy = NULL, dz = NULL, ...)
```

Arguments

dx	dx
dy	dy
dz	dz
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
Vector3D(dx = 1L, dy = 1L, dz = 1L)  
  
## End(Not run)
```

 WebPublishing

WebPublishing

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.web.html>

Usage

```
WebPublishing(
    css = NULL,
    thicket = NULL,
    longFileNames = NULL,
    vml = NULL,
    allowPng = NULL,
    targetScreenSize = "800x600",
    dpi = NULL,
    codePage = NULL,
    characterSet = NULL,
    ...
)
```

Arguments

css	css
thicket	thicket
longFileNames	longFileNames
vml	vml
allowPng	allowPng
targetScreenSize	targetScreenSize
dpi	dpi
codePage	codePage
characterSet	characterSet
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WebPublishing()

## End(Not run)
```

WebPublishItem	<i>WebPublishItem</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chartsheet.publish.html>

Usage

```
WebPublishItem(  
    id = NULL,  
    divId = NULL,  
    sourceType = NULL,  
    sourceRef = NULL,  
    sourceObject = NULL,  
    destinationFile = NULL,  
    title = NULL,  
    autoRepublish = NULL,  
    ...  
)
```

Arguments

id	id
divId	divId
sourceType	sourceType
sourceRef	sourceRef
sourceObject	sourceObject
destinationFile	destinationFile
title	title
autoRepublish	autoRepublish
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
WebPublishItem(  
    id = 1L,  
    divId = "divId",  
    sourceType = "chart",  
    sourceRef = "sourceRef",
```

```

destinationFile = "destinationFile"
)

## End(Not run)

```

WebPublishObject	<i>WebPublishObject</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.web.html>

Usage

```

WebPublishObject(
    id = NULL,
    divId = NULL,
    sourceObject = NULL,
    destinationFile = NULL,
    title = NULL,
    autoRepublish = NULL,
    ...
)

```

Arguments

id	id
divId	divId
sourceObject	sourceObject
destinationFile	destinationFile
title	title
autoRepublish	autoRepublish
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WebPublishObject(
  id = 1L,
  divId = "divId",
  destinationFile = "destinationFile"
)

## End(Not run)
```

WebPublishObjectList *WebPublishObjectList*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.web.html>

Usage

```
WebPublishObjectList(count = NULL, webPublishObject = list(), ...)
```

Arguments

count	count
webPublishObject	webPublishObject
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WebPublishObjectList()

## End(Not run)
```

Workbook	<i>Workbook</i>
----------	-----------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.workbook.html#openpyxl.workbook.workbook.Workbook>

Usage

```
Workbook(write_only = FALSE, iso_dates = FALSE, ...)
```

Arguments

write_only	write_only
iso_dates	iso_dates
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
Workbook()

## End(Not run)
```

WorkbookParser	<i>WorkbookParser</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.reader.workbook.html>

Usage

```
WorkbookParser(archive, workbook_part_name, keep_links = TRUE, ...)
```

Arguments

archive	archive
workbook_part_name	workbook_part_name
keep_links	keep_links
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WorkbookParser(
    archive = "archive",
    workbook_part_name = "workbook_part_name"
)

## End(Not run)
```

WorkbookProperties *WorkbookProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.properties.html>

Usage

```
WorkbookProperties(
    date1904 = NULL,
    dateCompatibility = NULL,
    showObjects = NULL,
    showBorderUnselectedTables = NULL,
    filterPrivacy = NULL,
    promptedSolutions = NULL,
    showInkAnnotation = NULL,
    backupFile = NULL,
    saveExternalLinkValues = NULL,
    updateLinks = NULL,
    codeName = NULL,
    hidePivotFieldList = NULL,
    showPivotChartFilter = NULL,
    allowRefreshQuery = NULL,
    publishItems = NULL,
    checkCompatibility = NULL,
    autoCompressPictures = NULL,
    refreshAllConnections = NULL,
    defaultThemeVersion = NULL,
    ...
)
```

Arguments

date1904	date1904
dateCompatibility	dateCompatibility
showObjects	showObjects
showBorderUnselectedTables	showBorderUnselectedTables
filterPrivacy	filterPrivacy
promptedSolutions	promptedSolutions
showInkAnnotation	showInkAnnotation
backupFile	backupFile
saveExternalLinkValues	saveExternalLinkValues
updateLinks	updateLinks
codeName	codeName
hidePivotFieldList	hidePivotFieldList
showPivotChartFilter	showPivotChartFilter
allowRefreshQuery	allowRefreshQuery
publishItems	publishItems
checkCompatibility	checkCompatibility
autoCompressPictures	autoCompressPictures
refreshAllConnections	refreshAllConnections
defaultThemeVersion	defaultThemeVersion
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WorkbookProperties()

## End(Not run)
```

WorkbookProtection	<i>WorkbookProtection</i>
--------------------	---------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.workbook.protection.html>

Usage

```
WorkbookProtection(
    workbookPassword = NULL,
    workbookPasswordCharacterSet = NULL,
    revisionsPassword = NULL,
    revisionsPasswordCharacterSet = NULL,
    lockStructure = NULL,
    lockWindows = NULL,
    lockRevision = NULL,
    revisionsAlgorithmName = NULL,
    revisionsHashValue = NULL,
    revisionsSaltValue = NULL,
    revisionsSpinCount = NULL,
    workbookAlgorithmName = NULL,
    workbookHashValue = NULL,
    workbookSaltValue = NULL,
    workbookSpinCount = NULL,
    ...
)
```

Arguments

workbookPassword	workbookPassword
workbookPasswordCharacterSet	workbookPasswordCharacterSet
revisionsPassword	revisionsPassword
revisionsPasswordCharacterSet	revisionsPasswordCharacterSet
lockStructure	lockStructure
lockWindows	lockWindows
lockRevision	lockRevision
revisionsAlgorithmName	revisionsAlgorithmName
revisionsHashValue	revisionsHashValue

```

revisionsSaltValue
    revisionsSaltValue
revisionsSpinCount
    revisionsSpinCount
workbookAlgorithmName
    workbookAlgorithmName
workbookHashValue
    workbookHashValue
workbookSaltValue
    workbookSaltValue
workbookSpinCount
    workbookSpinCount
...
    Additional arguments, i.e. kwargs.

```

Value

An openpyxl Python object.

Examples

```

## Not run:
WorkbookProtection()

## End(Not run)

```

WorksheetCopy

WorksheetCopy

Description

Copy the values, styles, dimensions, merged cells, margins, and
<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.copier.html>

Usage

```
WorksheetCopy(source_worksheet, target_worksheet, ...)
```

Arguments

```

source_worksheet
    source_worksheet
target_worksheet
    target_worksheet
...
    Additional arguments, i.e. kwargs.

```

Details

print/page setup from one worksheet to another within the same workbook.

Value

An openpyxl Python object.

Examples

```
## Not run:
wb <- Workbook()
ws1 <- wb$active
ws2 <- wb$create_sheet("Mysheet")
WorksheetCopy(source_worksheet = ws1, target_worksheet = ws2)

## End(Not run)
```

WorksheetProperties *WorksheetProperties*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.properties.html>

Usage

```
WorksheetProperties(
  codeName = NULL,
  enableFormatConditionsCalculation = NULL,
  filterMode = NULL,
  published = NULL,
  syncHorizontal = NULL,
  syncRef = NULL,
  syncVertical = NULL,
  transitionEvaluation = NULL,
  transitionEntry = NULL,
  tabColor = NULL,
  outlinePr = NULL,
  pageSetUpPr = NULL,
  ...
)
```

Arguments

codeName	codeName
enableFormatConditionsCalculation	enableFormatConditionsCalculation
filterMode	filterMode
published	published
syncHorizontal	syncHorizontal
syncRef	syncRef
syncVertical	syncVertical
transitionEvaluation	transitionEvaluation
transitionEntry	transitionEntry
tabColor	tabColor
outlinePr	outlinePr
pageSetUpPr	pageSetUpPr
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
WorksheetProperties()

## End(Not run)
```

WriteOnlyCell

WriteOnlyCell

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.cell.cell.html>

Usage

```
WriteOnlyCell(ws = NULL, value = NULL, ...)
```

Arguments

ws	ws
value	value
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
wb <- Workbook()  
WriteOnlyCell(ws = wb$active)  
  
## End(Not run)
```

write_stylesheet	<i>write_stylesheet</i>
------------------	-------------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.styles.stylesheet.html>

Usage

```
write_stylesheet(wb, ...)
```

Arguments

wb	wb
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:  
wb <- Workbook()  
write_stylesheet(wb = wb)  
  
## End(Not run)
```

`XDRPoint2D`*XDRPoint2D*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.xdr.html>

Usage

```
XDRPoint2D(x = NULL, y = NULL, ...)
```

Arguments

<code>x</code>	<code>x</code>
<code>y</code>	<code>y</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
XDRPoint2D(x = 1L, y = 1L)

## End(Not run)
```

`XDRPositiveSize2D`*XDRPositiveSize2D*

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.xdr.html>

Usage

```
XDRPositiveSize2D(cx = NULL, cy = NULL, ...)
```

Arguments

<code>cx</code>	<code>cx</code>
<code>cy</code>	<code>cy</code>
<code>...</code>	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
XDRPositiveSize2D(cx = 1L, cy = 1L)

## End(Not run)
```

XDRTransform2D

XDRTransform2D

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.drawing.xdr.html>

Usage

```
XDRTransform2D(
    rot = NULL,
    flipH = NULL,
    flipV = NULL,
    off = NULL,
    ext = NULL,
    chOff = NULL,
    chExt = NULL,
    ...
)
```

Arguments

rot	rot
flipH	flipH
flipV	flipV
off	off
ext	ext
chOff	chOff
chExt	chExt
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
XDRTransform2D()

## End(Not run)
```

XMLColumnProps	<i>XMLColumnProps</i>
----------------	-----------------------

Description

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.worksheet.table.html>

Usage

```
XMLColumnProps(
    mapId = NULL,
    xpath = NULL,
    denormalized = NULL,
    xmlDataType = NULL,
    extLst = NULL,
    ...
)
```

Arguments

mapId	mapId	
xpath	xpath	
denormalized	denormalized	
xmlDataType	xmlDataType	
extLst	extLst	
...	Additional arguments, i.e. kwargs.	

Value

An openpyxl Python object.

Examples

```
## Not run:
XMLColumnProps(mapId = 1L, xpath = "xpath", xmlDataType = "xmlDataType")

## End(Not run)
```

XYSeries	<i>XYSeries</i>
----------	-----------------

Description

Dedicated series for charts that have x and y series

<https://openpyxl.readthedocs.io/en/stable/api/openpyxl.chart.series.html>

Usage

```

XYSeries(
    idx = 0L,
    order = 0L,
    tx = NULL,
    spPr = NULL,
    pictureOptions = NULL,
    dPt = list(),
    dLbls = NULL,
    trendline = NULL,
    errBars = NULL,
    cat = NULL,
    val = NULL,
    invertIfNegative = NULL,
    shape = NULL,
    xVal = NULL,
    yVal = NULL,
    bubbleSize = NULL,
    bubble3D = NULL,
    marker = NULL,
    smooth = NULL,
    explosion = NULL,
    extLst = NULL,
    ...
)

```

Arguments

idx	idx
order	order
tx	tx
spPr	spPr
pictureOptions	pictureOptions
dPt	dPt
dLbls	dLbls
trendline	trendline

errBars	errBars
cat	cat
val	val
invertIfNegative	invertIfNegative
shape	shape
xVal	xVal
yVal	yVal
bubbleSize	bubbleSize
bubble3D	bubble3D
marker	marker
smooth	smooth
explosion	explosion
extLst	extLst
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
XYSeries()

## End(Not run)
```

x_axis	<i>x_axis</i>
--------	---------------

Description

Values must be of type <class 'openpyxl.chart.axis.TextAxis'>

Usage

```
x_axis(py_obj, ...)
```

Arguments

py_obj	py_obj
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
BarChart(type = "col") |>
  x_axis(title = "X axis title")

## End(Not run)
```

y_axis

y_axis

Description

Values must be of type <class 'openpyxl.chart.axis.NumericAxis'>

Usage

```
y_axis(py_obj, ...)
```

Arguments

py_obj	py_obj
...	Additional arguments, i.e. kwargs.

Value

An openpyxl Python object.

Examples

```
## Not run:
BarChart(type = "col") |>
  y_axis(title = "Y axis title")

## End(Not run)
```

Index

absolute_coordinate, 11
AbsoluteAnchor, 10
active, 11
add_chart, 12
add_data, 13
add_table, 14
AdjPoint2D, 15
AdjustHandleList, 15
Alignment, 16
AlphaBiLevelEffect, 17
AlphaCeilingEffect, 18
AlphaFloorEffect, 18
AlphaInverseEffect, 19
AlphaModulateEffect, 19
AlphaModulateFixedEffect, 20
AlphaReplaceEffect, 21
AnchorClientData, 21
AnchorMarker, 22
angle_to_degrees, 23
AreaChart, 23
AreaChart3D, 24
ArrayDescriptor, 25
ArrayFormula, 25
AuthorList, 26
AutoFilter, 27
AutonumberBullet, 28
avoid_duplicate_name, 28
AxDataSource, 29

Backdrop, 30
BandFormat, 31
BandFormatList, 31
BarChart, 32
BarChart3D, 33
Bevel, 34
BiLevelEffect, 34
Blip, 35
BlipFillProperties, 37
BlurEffect, 38
BookView, 39

Border, 40
Break, 41
BubbleChart, 42
builtin_format_code, 43
builtin_format_id, 44

CalcProperties, 45
Camera, 46
cast_numeric, 47
cast_percentage, 47
cast_time, 48
Cell, 49
CellIsRule, 50
CellRange, 51
CellSmartTag, 52
CellSmartTagPr, 53
CellSmartTags, 53
CellStyle, 54
CellStyleList, 55
CellWatch, 56
CellWatches, 57
CharacterProperties, 57
ChartContainer, 60
ChartLines, 61
ChartRelation, 62
Chartsheet, 62
ChartsheetProperties, 64
ChartsheetProtection, 64
ChartsheetView, 65
ChartsheetViewList, 66
ChartSpace, 67
cm_to_dxa, 68
cm_to_EMU, 69
ColBreak, 69
Color, 70
ColorChangeEffect, 71
ColorChoice, 72
ColorFilter, 73
ColorList, 73
ColorMapping, 74

- ColorReplaceEffect, 75
- ColorScale, 76
- ColorScaleRule, 76
- ColRange, 78
- column_index_from_string, 80
- ColumnDimension, 78
- Comment, 81
- CommentRecord, 81
- CommentSheet, 83
- ConditionalFormatting, 83
- ConditionalFormattingList, 84
- Connection, 85
- ConnectionSite, 85
- ConnectionSiteList, 86
- ConnectorLocking, 87
- Control, 87
- ControlProperty, 88
- Controls, 89
- coordinate_from_string, 90
- coordinate_to_tuple, 91
- CustomFilter, 91
- CustomFilters, 92
- CustomGeometry2D, 93
- CustomProperties, 94
- CustomProperty, 94
- CustomSplit, 95

- DashStop, 95
- DashStopList, 96
- DataBar, 97
- DataBarRule, 98
- DataLabel, 99
- DataLabelList, 99
- DataPoint, 100
- DataTable, 101
- DataTableFormula, 102
- DataValidation, 103
- DataValidationList, 104
- DateAxis, 105
- DateGroupItem, 106
- deepcopy, 107
- DefinedName, 108
- DefinedNameList, 109
- degrees_to_angle, 110
- DifferentialStyle, 111
- DifferentialStyleList, 112
- Dimension, 112
- DimensionHolder, 113
- DisplayUnitsLabel, 114

- DisplayUnitsLabelList, 115
- DocumentProperties, 115
- DocumentSecurity, 117
- DoughnutChart, 118
- Drawing, 119
- DrawingHF, 120
- DummyWorksheet, 121
- DuotoneEffect, 122
- dxa_to_cm, 122
- DynamicFilter, 123

- EffectContainer, 124
- EffectList, 125
- EmbeddedWAVAudioFile, 126
- EmptyCell, 126
- EMU_to_cm, 127
- EMU_to_inch, 127
- EMU_to_pixels, 128
- ErrorBars, 129
- ExcelReader, 130
- ExcelWriter, 131
- expand_cell_ranges, 131
- Extension, 132
- ExtensionList, 133
- ExternalBook, 133
- ExternalCell, 134
- ExternalData, 135
- ExternalDefinedName, 136
- ExternalLink, 136
- ExternalReference, 137
- ExternalSheetDataSet, 138
- ExternalSheetNames, 138

- FileSharing, 139
- FileVersion, 140
- Fill, 141
- FillOverlayEffect, 141
- FilterColumn, 142
- Filters, 143
- Font, 144
- FontReference, 145
- FormatObject, 146
- FormulaRule, 147
- FunctionGroup, 148
- FunctionGroupList, 148

- GeomGuide, 149
- GeomGuideList, 150
- GeomRect, 150

- get_column_interval, 151
- get_column_letter, 152
- get_type, 152
- GlowEffect, 153
- GradientFill, 154
- GradientFillProperties, 155
- GradientStop, 156
- GraphicalProperties, 157
- GraphicData, 158
- GraphicFrameLocking, 159
- GraphicObject, 160
- GrayscaleEffect, 160
- GroupLocking, 161
- GroupShapeProperties, 162
- GroupTransform2D, 163

- hash_password, 164
- HeaderFooter, 165
- HeaderFooterItem, 166
- HSLColor, 167
- HSLEffect, 167
- Hyperlink, 168
- HyperlinkList, 169

- iadd, 169
- IconFilter, 170
- IconSet, 171
- IconSetRule, 172
- IgnoredError, 173
- IgnoredErrors, 174
- Image, 174
- inch_to_dxa, 175
- inch_to_EMU, 176
- InlineFont, 176
- InnerShadowEffect, 178
- InputCells, 179
- install_openpyxl, 180
- install_pillow, 180

- Layout, 181
- Legend, 181
- LegendEntry, 182
- Level, 183
- LightRig, 183
- LinearShadeProperties, 184
- LineBreak, 185
- LineChart, 185
- LineChart3D, 186
- LineEndProperties, 187

- LineProperties, 188
- ListStyle, 189
- load_workbook, 190
- LuminanceEffect, 191

- ManualLayout, 192
- Marker, 193
- MergeCell, 194
- MergeCells, 194
- MergedCell, 195
- MergedCellRange, 196
- MultiCellRange, 197
- MultiLevelStrData, 197
- MultiLevelStrRef, 198

- NamedStyle, 199
- NamedStyleList, 200
- NestedGapAmount, 201
- NestedOverlap, 201
- NonVisualConnectorProperties, 202
- NonVisualDrawingShapeProps, 203
- NonVisualGraphicFrameProperties, 203
- NonVisualPictureProperties, 204
- NumData, 205
- NumDataSource, 206
- NumericAxis, 206
- NumFmt, 207
- NumRef, 208
- NumVal, 208

- ObjectAnchor, 209
- OneCellAnchor, 210
- Outline, 211

- PageBreak, 212
- PageMargins, 212
- PageSetupProperties, 213
- Pane, 214
- Paragraph, 215
- ParagraphProperties, 216
- Path2D, 218
- Path2DList, 218
- PathShadeProperties, 219
- PatternFill, 220
- PatternFillProperties, 221
- PhoneticProperties, 221
- PhoneticText, 222
- PieChart, 223
- PieChart3D, 223

PivotFormat, 224
PivotSource, 225
pixels_to_EMU, 226
pixels_to_points, 231
PlotArea, 227
Point2D, 228
Point3D, 229
points_to_pixels, 229
PositiveSize2D, 230
PresetGeometry2D, 231
PresetShadowEffect, 231
PrintArea, 232
PrintOptions, 233
PrintPageSetup, 234
PrintSettings, 235
PrintTitles, 236
ProjectedPieChart, 237
Protection, 238

quote_sheetname, 239

RadarChart, 239
range_boundaries, 240
range_to_tuple, 241
ReadOnlyCell, 242
Reference, 242
RegularTextRun, 243
Related, 244
RelativeRect, 245
RichTextProperties, 245
RowBreak, 247
RowDimension, 248
RowRange, 249
rows_from_range, 250
Rule, 251
RuleType, 252

save_workbook, 253
Scaling, 254
ScatterChart, 255
Scenario, 256
ScenarioList, 257
Scene3D, 257
SchemeColor, 258
Selection, 260
Series, 261
SeriesAxis, 262
SeriesFactory, 263
SeriesLabel, 264

set_categories, 264
Shape, 265
Shape3D, 266
ShapeStyle, 267
SheetBackgroundPicture, 268
SheetDimension, 269
SheetFormatProperties, 269
SheetProtection, 270
SheetView, 272
SheetViewList, 274
short_color, 275
Side, 275
SmartTag, 276
SmartTagList, 277
SmartTagProperties, 277
SmartTags, 278
SoftEdgesEffect, 279
SolidColorFillProperties, 279
SortCondition, 280
SortState, 281
Spacing, 282
SphereCoords, 283
SpreadsheetDrawing, 284
StockChart, 284
Stop, 285
StopList, 286
StrData, 287
StretchInfoProperties, 287
StrRef, 288
StrVal, 289
StyleArray, 289
StyleMatrixReference, 290
Stylesheet, 291
SurfaceChart, 292
SurfaceChart3D, 293
SystemColor, 293

Table, 296
TableColumn, 298
TableFormula, 299
TableNameDescriptor, 300
TablePartList, 300
TableStyle, 301
TableStyleElement, 302
TableStyleInfo, 302
TableStyleList, 303
TextAxis, 304
TextBlock, 305
TextField, 306

TextNormalAutofit, 306
TintEffect, 307
Title, 308
title_maker, 309
TitleDescriptor, 309
Transform2D, 310
Trendline, 311
TrendlineLabel, 312
TwoCellAnchor, 313

UpDownBars, 314

ValueDescriptor, 314
Vector3D, 315

WebPublishing, 316
WebPublishItem, 317
WebPublishObject, 318
WebPublishObjectList, 319
Workbook, 320
WorkbookParser, 320
WorkbookProperties, 321
WorkbookProtection, 323
WorksheetCopy, 324
WorksheetProperties, 325
write_stylesheet, 327
WriteOnlyCell, 326

x_axis, 332
XDRPoint2D, 328
XDRPositiveSize2D, 328
XDRTransform2D, 329
XMLColumnProps, 330
XYSeries, 331

y_axis, 333