

Anne Frank

Anne Frank war eine deutsche Jüdin, die im zweiten Weltkrieg mit ihrer Familie in die Niederlande flüchtete, um sich vor der deutschen Nation zu verstecken. Kurz vor dem Kriegsende fiel Anne Frank bei dem Holocaust. Dabei hinterließ sie ihr Tagebuch, welches ihr Vater Otto Frank veröffentlichte. Sie berichtete über ihr Leben von dem Haus, indem sie sich mit ihrer Familie versteckte und wie sie in Angst lebten gefunden zu werden.

Projekt

Das Bücherregal von Anne Frank als Denkmal

Für das Projekt wurde als Vorlage das UNO Gebäude verwendet.

Es wurde hauptsächlich mit Listen gearbeitet. Habe Punkte aufgeschrieben und mit dem Befehl AddCurve gearbeitet um das Regal und um die Bücher zu scripten.

Python Script

```
#####
### DM2_w24 # Patrycja Werstak ###
### hu_07 Anne Frank Buecherregal###
### paneling / new dimensions ###
#####

#####
import rhinoscriptsyntax as rs      ###
import random, time, sys           ###
sys.path.append("P:\WWW\arch2506\DM2\FINALE")  ###
import DM_lib as dm                ###
#import _OSM_demo as dm             ###
reload(dm)                         ###
#####

##### https://www.openstreetmap.org/export
#### AGruber@tugraz.at ### https://osmbuildings.org/
#### OSM demo 2024/12 ###
#####
#
#
#reload(osm)
```

```

#
#rs.UnitSystem(4)          # meters = 4
#rs.ShowGrid(None, 0)
#rs.ShowGridAxes(None, 1)
#rs.EnableRedraw(0)
#currentMode = rs.ViewDisplayMode(rs.CurrentView())
#rs.ViewDisplayMode(rs.CurrentView(), "wireframe")
#rs.Redraw()
#####
#
#
#####
###OSMpath = "D:/OSM/osmData/"
#OSMpath = "P:\\WWW\\arch2506\\DM2\\FINALE"
#####
#
#OSMfile = "wien_1010.osm"
#OSMfile = "attersee.osm"
#OSMfile = "frohnleiten.osm"
#OSMfile = "seoul_small.osm"
#OSMfile = "NYC_stuyvesant_town_big.osm"
#OSMfile = "NYC_stuyvesant_town.osm"
#OSMfile = "NYC_madison_square_garden_big.osm"
#OSMfile = "NYC_madison_square_garden.osm"
#OSMfile = "NYC_empire_state_bldg.osm"
#OSMfile = "ellmauer_halt.osm"
#OSMfile = "weissensee.osm"
#OSMfile = "kibo.osm"
##OSMfile = "paris_sorbonne.osm"
##OSMfile = "karlsplatz.osm"
##OSMfile = "madison_square.osm"
##OSMfile = "NYC_sankt_marks.osm"
##OSMfile = "urania.osm"
##OSMfile = "urania_00.osm"
##OSMfile = "kiew.osm"
##OSMfile = "EmpStat.osm"
##OSMfile = "stockholm.osm"
##OSMfile = "lampedusa.osm"
##### #

#
#osm.eAA()          # erase absolutely all objects, even hidden & locked

```

```
##osm.OSMi(OSMfile, OSMpath, move2Guinea=1)
#osm.OSMi(OSMfile, OSMpath, trimBounds=1, do3D=1, minHeight=1.0, heightFac=1.0,
randomize=[5.0, 10.0], doAllCurves=1, move2Guinea = 1, verbose=0)
#
```

```
#####
```

```
rs.CurrentLayer("Default")
rs.ViewDisplayMode(None, "ghosted")
```

```
#####
#####
#####
```

```
rs.UnitSystem(4)                # km = 5, meters = 4, cm = 3 etc
rs.ShowGrid(None, 0)             # grid > 0 = off
rs.ShowGridAxes(None, 1)         # y/y/z axen display > 0/1 = off/on
rs.ViewDisplayMode(rs.CurrentView(), "wireframe")
rs.Command("cplane w t enter", 0) # cPlane World Top
dm.PointRadius(displayModeX=0, rad=3, styl=3)
dm.printDisplay(1)               # nomen est omen
rs.EnableRedraw(0)
```

```
###_____#
```

```
### basic settings for grid to fit UN_slab #
```

```
###          #
```

```
floors = H = dm.H = 40          # default=40 / incl roof
slabs = L = dm.L = 11           # default=11
depth = D = dm.D = 4           # default= 4 / division in building_depth
floorHeight = fH = dm.fH = 4.0  # default= 4.0 / 4.0*(H-1) = 156 meters
#
```

```
#####          # get from DM_lib as dm:
```

```
UnoGridCoords = dm.UnoGridCoords    # get gridCoords L*D*H = 1760
UnoPanelCoords = dm.UnoPanelCoords  # get panelCoords [frontPanels,
backPanels, sidePanels, upSidePanels] / default arguments s.u.
```

```
#####_____#
```

```
#####
```

```
lengthVec = lVec = rs.VectorUnitize(rs.VectorSubtract( dm.getUnoCoord(0, 0, 0),
dm.getUnoCoord(1, 0, 0) )) ## rs.AddPoint( dm.getUnoCoord(1, 0, 0) )
depthVec = dVec = rs.VectorUnitize(rs.VectorSubtract( dm.getUnoCoord(0, 1, 0),
```

```

dm.getUnoCoord(0, 0, 0) )) ## rs.AddPoint( dm.getUnoCoord(0, 1, 0) )
#####
#####
#####
UnoPanelCoords = dm.getUNpanelCoords(anzL=10*7, anzH=39, anzD=3, stepL=1,
stepH=1, stepD=1) ### = all ~windows_panels
BigPanelCoords = dm.getUNpanelCoords(anzL=10*1, anzH=39, anzD=3, stepL=2,
stepH=6, stepD=2) ### = all ~windows_panels
UnoPanelCoords = dm.getUNpanelCoords(anzL=10*1, anzH=39, anzD=3, stepL=1,
stepH=3, stepD=1) ### = standard for hu_06 #####mal .. (bsp. 7) um linien in breite zu
schmaelern#####
#####
#####
frontPanels  = UnoPanelCoords[0] ### list of coordLists !
backPanels   = UnoPanelCoords[1]
sidePanels   = UnoPanelCoords[2]
upSidePanels = UnoPanelCoords[3]
allPanels    = UnoPanelCoords[4]
#####

dm.newEmptyLayer("UNO::setUp", [120,120,240])

if 1: ### SETUP >> dont' exec @ homework !
    rs.ObjectColor(rs.AddCurve( [dm.getUnoCoord(0,0,0), dm.getUnoCoord(0,0,39),
dm.getUnoCoord(10,0,39), dm.getUnoCoord(10,0,0), dm.getUnoCoord(10,3,0),
dm.getUnoCoord(0,3,0), dm.getUnoCoord(0,3,39), dm.getUnoCoord(10,3,39)], 1),
[100,0,200])
    rs.ObjectColor(rs.AddLine( dm.getUnoCoord(0, 0, 0), dm.getUnoCoord(0, 1, 0) ), [222,
0, 0] )
    rs.ObjectColor(rs.AddLine( dm.getUnoCoord(0, 0, 0), dm.getUnoCoord(1, 0, 0) ), [0,
222, 0] )
    rs.ObjectColor(rs.AddLine( dm.getUnoCoord(0, 0, 0), dm.getUnoCoord(0, 0, 2) ), [0, 0,
222] )
    rs.ObjectPrintWidth( rs.AllObjects()[0:4], 1.0 )
    rs.ZoomExtents()
    #for coords in BigPanelCoords[4]: rs.AddCurve( coords, 1 )

if 0: ### DEMO >> dont' exec @ homework !
    print len(frontPanels)
    dm.textDots( frontPanels[0] )

```

```

for coords in frontPanels[0:10]+sidePanels:
    pass
    rs.AddPoints( coords )
    rs.AddCurve( coords, 1 )
    #rs.AddSrfPt( coords )
#for coords in sidePanels[0:]:
#    rs.AddPoints( coords )

for coords in BigPanelCoords[4]:
    pass
    rs.AddCurve( coords, 1 )

if 0: ### DEMO >> dont' exec @ homework !!!!!#####

#####:
### panel_DEF:
def myPanel( panel, basement = 0 ):
    p0, p1, p2, p3 = panel ### get items (==coords) from list
    rs.AddLine( p0, p2 )
    if basement:
        crv = rs.AddCurve( [p0, p1, dm.pntInbetween(p1, p3), p2, p3], 1 )
        rs.ObjectPrintWidth( crv, 1 )
        rs.ObjectColor( crv, [200,0,0])
    else:
        rs.AddCurve( panel )

for i,panel in enumerate(frontPanels[:]):
    pass
    panNr = 0
    if i<10 or i>119:
        panNr = 1
    myPanel( panel, basement = panNr ) ### basement = (i<20 or i>109)
    #rs.Redraw()

#####
### abbreviation:
def gC (l=1, d=2, h=3):
    cor = dm.getUnoCoord(l, d, h)
    return cor
## rs.AddPoint( gC(1,0,1) )
#####

```

```
#_____here you go:  
dm.newEmptyLayer("Buecherregal", [100,100,100])
```

```
#Boden
```

```
p0 = gC (0,0,0)  
p1 = gC (0,3,0)  
p2 = gC (10,3,0)  
p3 = gC (10,0,0)  
p4 = gC (0,0,0)
```

```
coords_boden = [p0, p1, p2, p3, p4]  
rs.AddCurve( coords_boden, 1)
```

```
#Wand links
```

```
p0 = gC (0,0,0)  
p1 = gC (0,0,39)  
p2 = gC (0,3,39)  
p3 = gC (0,3,0)
```

```
coords_wand_links = [p0, p1, p2, p3]  
rs.AddCurve( coords_wand_links, 1)
```

```
#Decke
```

```
p0 = gC (0,0,39)  
p1 = gC (10,0,39)  
p2 = gC (10,3,39)  
p3 = gC (0,3,39)
```

```
coords_decke = [p0, p1, p2, p3]
```

```
rs.AddCurve( coords_decke, 1)
```

```
#Wand rechts
```

```
p0 = gC (10,0,39)  
p1 = gC (10,0,0)  
p2 = gC (10,3,0)  
p3 = gC (10,3,39)
```

```
coords_wand_rechts = [p0, p1, p2, p3]  
rs.AddCurve( coords_wand_rechts, 1)
```

```
#unterer Boden Erhoeung
```

```
p0 = gC (0,0,3)
p1 = gC (0,3,3)
p2 = gC (10,3,3)
p3 = gC (10,0,3)
p4 = gC (0,0,3)
```

```
coords_unterer_boden_erhoeung = [p0, p1, p2, p3, p4]
rs.AddCurve( coords_unterer_boden_erhoeung ,1)
```

```
#unteres Regal
p0 = gC (0,0,14)
p1 = gC (0,3,14)
p2 = gC (10,3,14)
p3 = gC (10,0,14)
p4 = gC (0,0,14)
```

```
coords_unteres_regal = [p0, p1, p2, p3, p4]
rs.AddCurve(coords_unteres_regal, 1)
```

```
#oberes Regal
p0 = gC (0,0,27)
p1 = gC (0,3,27)
p2 = gC (10,3,27)
p3 = gC (10,0,27)
p4 = gC (0,0,27)
```

```
coords_oberes_regal = [p0, p1, p2, p3, p4]
rs.AddCurve(coords_oberes_regal, 1)
```

```
##Buecher unteres Regal
```

```
#Buch 1 gerade
```

```
dm.newEmptyLayer("Buch 1", [100,150,255])
```

```
p0 = gC (0,2,3)
p1 = gC (0,2,7)
p2 = gC (0,0,11)
p3 = gC (0,0,3)
p4 = gC (0,2,3)
p5 = gC (1,2,3)
p6 = gC (1,2,11)
```

```
p7 = gC (0,2,11)
p8 = gC (1,2,11)
p9 = gC (1,0,11)
p10= gC (0,0,11)
p11= gC (0,0,3)
p12= gC (1,0,3)
p13= gC (1,0,11)
p14= gC (1,0,3)
p15= gC (1,2,3)
```

```
coords_buch_1 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_1, 1)
```

#Buch 2 schraeg

```
dm.newEmptyLayer("Buch 2", [150,164,199])
```

```
p0 = gC (2,0,3)
p1 = gC (1,0,10)
p2 = gC (1,2,10)
p3 = gC (2,2,3)
p4 = gC (2,0,3)
p5 = gC (3,0,4)
p6 = gC (2,0,11)
p7 = gC (1,0,10)
p8 = gC (2,0,11)
p9 = gC (2,2,11)
p10 = gC (1,2,10)
p11 = gC (2,2,11)
p12 = gC (3,2,4)
p13 = gC (2,2,3)
p14 = gC (3,2,4)
p15 = gC (3,0,4)
```

```
coords_buch_2 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_2, 1)
```

#Buch 3 gerade

```
dm.newEmptyLayer("Buch 3", [150,220,180])
```

```
p0 = gC (3,0,3)
```

```
p1 = gC (3,0,9)
p2 = gC (3,2,9)
p3 = gC (3,2,3)
p4 = gC (3,0,3)
p5 = gC (4,0,3)
p6 = gC (4,0,9)
p7 = gC (3,0,9)
p8 = gC (4,0,9)
p9 = gC (4,2,9)
p10 = gC (3,2,9)
p11 = gC (4,2,9)
p12 = gC (4,2,3)
p13 = gC (3,2,3)
p14 = gC (4,2,3)
p15 = gC (4,0,3)
```

```
coords_buch_3 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_3, 1)
```

#Buch 4 gerade

```
dm.newEmptyLayer("Buch 4", [250,220,180])
```

```
p0 = gC (4,0,3)
p1 = gC (4,0,8)
p2 = gC (4,2,8)
p3 = gC (4,2,3)
p4 = gC (4,0,3)
p5 = gC (5,0,3)
p6 = gC (5,0,8)
p7 = gC (4,0,8)
p8 = gC (5,0,8)
p9 = gC (5,2,8)
p10 = gC (4,2,8)
p11 = gC (5,2,8)
p12 = gC (5,2,3)
p13 = gC (4,2,3)
p14 = gC (5,2,3)
p15 = gC (5,0,3)
```

```
coords_buch_4 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_4, 1)
```

#Buch 5 gerade

dm.newEmptyLayer("Buch 5", [250,100,180])

p0 = gC (5,0,3)

p1 = gC (5,0,12)

p2 = gC (5,2,12)

p3 = gC (5,2,3)

p4 = gC (5,0,3)

p5 = gC (6,0,3)

p6 = gC (6,0,12)

p7 = gC (5,0,12)

p8 = gC (6,0,12)

p9 = gC (6,2,12)

p10 = gC (5,2,12)

p11 = gC (6,2,12)

p12 = gC (6,2,3)

p13 = gC (5,2,3)

p14 = gC (6,2,3)

p15 = gC (6,0,3)

coords_buch_5 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]

rs.AddCurve(coords_buch_5, 1)

#Buch 6 gerade

dm.newEmptyLayer("Buch 6", [250,220,200])

p0 = gC (7,0,3)

p1 = gC (6,0,10)

p2 = gC (6,2,10)

p3 = gC (7,2,3)

p4 = gC (7,0,3)

p5 = gC (8,0,4)

p6 = gC (7,0,11)

p7 = gC (6,0,10)

p8 = gC (7,0,11)

p9 = gC (7,2,11)

p10 = gC (6,2,10)

p11 = gC (7,2,11)

p12 = gC (8,2,4)

p13 = gC (7,2,3)

p14 = gC (8,2,4)

p15 = gC (8,0,4)

coords_buch_6 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]

rs.AddCurve(coords_buch_6, 1)

#Buch 7 schraeg

dm.newEmptyLayer("Buch 7", [100,220,155])

p0 = gC (8,0,3)

p1 = gC (8,0,8)

p2 = gC (8,2,8)

p3 = gC (8,2,3)

p4 = gC (8,0,3)

p5 = gC (9,0,3)

p6 = gC (9,0,8)

p7 = gC (8,0,8)

p8 = gC (9,0,8)

p9 = gC (9,2,8)

p10 = gC (8,2,8)

p11 = gC (9,2,8)

p12 = gC (9,2,3)

p13 = gC (8,2,3)

p14 = gC (9,2,3)

p15 = gC (9,0,3)

coords_buch_7 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]

rs.AddCurve(coords_buch_7, 1)

#Buch 8 gerade

dm.newEmptyLayer("Buch 8", [142,100,155])

p0 = gC (9,0,3)

p1 = gC (9,0,9)

p2 = gC (9,2,9)

p3 = gC (9,2,3)

p4 = gC (9,0,3)

p5 = gC (10,0,3)

p6 = gC (10,0,9)

```
p7 = gC (9,0,9)
p8 = gC (10,0,9)
p9 = gC (10,2,9)
p10 = gC (9,2,9)
p11 = gC (10,2,9)
p12 = gC (10,2,3)
p13 = gC (9,2,3)
p14 = gC (10,2,3)
p15 = gC (10,0,3)
```

```
coords_buch_8 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_8, 1)
```

```
##Buecher mittleres Regal
```

```
#Buch 9 legend
```

```
dm.newEmptyLayer("Buch 9", [100,100,140])
```

```
p0 = gC (3,0,14)
p1 = gC (0,0,14)
p2 = gC (0,2,14)
p3 = gC (3,2,14)
p4 = gC (3,0,14)
p5 = gC (3,0,16)
p6 = gC (0,0,16)
p7 = gC (0,0,4)
p8 = gC (0,0,16)
p9 = gC (0,2,16)
p10 = gC (0,2,14)
p11 = gC (0,2,16)
p12 = gC (3,2,16)
p13 = gC (3,2,14)
p14 = gC (3,2,16)
p15 = gC (3,0,16)
```

```
coords_buch_9 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_9, 1)
```

```
#Buch 10 legend
```

```
dm.newEmptyLayer("Buch 10", [100,100,200])
```

```
p0 = gC (2,0,16)
p1 = gC (0,0,16)
p2 = gC (0,2,16)
p3 = gC (2,2,16)
p4 = gC (2,0,16)
p5 = gC (2,0,18)
p6 = gC (0,0,18)
p7 = gC (0,0,4)
p8 = gC (0,0,18)
p9 = gC (0,2,18)
p10 = gC (0,2,16)
p11 = gC (0,2,18)
p12 = gC (2,2,18)
p13 = gC (2,2,16)
p14 = gC (2,2,18)
p15 = gC (2,0,18)
```

```
coords_buch_10 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_10, 1)
```

#Buch 11 gerade

```
dm.newEmptyLayer("Buch 11", [233,233,233])
```

```
p0 = gC (3,0,14)
p1 = gC (3,0,23)
p2 = gC (3,2,23)
p3 = gC (3,2,14)
p4 = gC (3,0,14)
p5 = gC (4,0,14)
p6 = gC (4,0,23)
p7 = gC (3,0,23)
p8 = gC (4,0,23)
p9 = gC (4,2,23)
p10 = gC (3,2,23)
p11 = gC (4,2,23)
p12 = gC (4,2,14)
p13 = gC (3,2,14)
p14 = gC (4,2,14)
p15 = gC (4,0,14)
```

```
coords_buch_11 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]  
rs.AddCurve(coords_buch_11, 1)
```

#Buch 12 gerade

```
dm.newEmptyLayer("Buch 12", [144,144,144])
```

```
p0 = gC (4,0,14)  
p1 = gC (4,0,20)  
p2 = gC (4,2,20)  
p3 = gC (4,2,14)  
p4 = gC (4,0,14)  
p5 = gC (5,0,14)  
p6 = gC (5,0,20)  
p7 = gC (4,0,20)  
p8 = gC (5,0,20)  
p9 = gC (5,2,20)  
p10 = gC (4,2,20)  
p11 = gC (5,2,20)  
p12 = gC (5,2,14)  
p13 = gC (4,2,14)  
p14 = gC (5,2,14)  
p15 = gC (5,0,14)
```

```
coords_buch_12 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]  
rs.AddCurve(coords_buch_12, 1)
```

#Buch 13 schraeg

```
dm.newEmptyLayer("Buch 13", [120,129,160])
```

```
p0 = gC (5,0,15)  
p1 = gC (6,0,22)  
p2 = gC (6,2,22)  
p3 = gC (5,2,15)  
p4 = gC (5,0,15)  
p5 = gC (6,0,14)  
p6 = gC (7,0,21)  
p7 = gC (6,0,22)  
p8 = gC (7,0,21)  
p9 = gC (7,2,21)  
p10 = gC (6,2,22)
```

```
p11 = gC (7,2,21)
p12 = gC (6,2,14)
p13 = gC (5,2,15)
p14 = gC (6,2,14)
p15 = gC (6,0,14)
```

```
coords_buch_13 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_13, 1)
```

#Buch 14 gerade

```
dm.newEmptyLayer("Buch 14", [190,240,190])
```

```
p0 = gC (7,0,14)
p1 = gC (7,0,22)
p2 = gC (7,2,22)
p3 = gC (7,2,14)
p4 = gC (7,0,14)
p5 = gC (8,0,14)
p6 = gC (8,0,22)
p7 = gC (7,0,22)
p8 = gC (8,0,22)
p9 = gC (8,2,22)
p10 = gC (7,2,22)
p11 = gC (8,2,22)
p12 = gC (8,2,14)
p13 = gC (7,2,14)
p14 = gC (8,2,14)
p15 = gC (8,0,14)
```

```
coords_buch_14 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_14, 1)
```

#Buch 15 gerade

```
dm.newEmptyLayer("Buch 15", [190,105,110])
```

```
p0 = gC (9,0,14)
p1 = gC (9,0,21)
p2 = gC (9,2,21)
p3 = gC (9,2,14)
p4 = gC (9,0,14)
```

```
p5 = gC (10,0,14)
p6 = gC (10,0,21)
p7 = gC (9,0,21)
p8 = gC (10,0,21)
p9 = gC (10,2,21)
p10 = gC (9,2,21)
p11 = gC (10,2,21)
p12 = gC (10,2,14)
p13 = gC (9,2,14)
p14 = gC (10,2,14)
p15 = gC (10,0,14)
```

```
coords_buch_15 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_15, 1)
```

```
##Buecher oberes Regal
```

```
#Buch 16 gerade
```

```
dm.newEmptyLayer("Buch 16", [150,115,200])
```

```
p0 = gC (0,0,27)
p1 = gC (0,0,36)
p2 = gC (0,2,36)
p3 = gC (0,2,27)
p4 = gC (0,0,27)
p5 = gC (1,0,27)
p6 = gC (1,0,36)
p7 = gC (0,0,36)
p8 = gC (1,0,36)
p9 = gC (1,2,36)
p10 = gC (0,2,36)
p11 = gC (1,2,36)
p12 = gC (1,2,27)
p13 = gC (0,2,27)
p14 = gC (1,2,27)
p15 = gC (1,0,27)
```

```
coords_buch_16 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_16, 1)
```

```
#Buch 17 gerade
```

```
dm.newEmptyLayer("Buch 17", [150,244,220])
```

```
p0 = gC (2,0,27)
p1 = gC (2,0,33)
p2 = gC (2,2,33)
p3 = gC (2,2,27)
p4 = gC (2,0,27)
p5 = gC (3,0,27)
p6 = gC (3,0,33)
p7 = gC (2,0,33)
p8 = gC (3,0,33)
p9 = gC (3,2,33)
p10 = gC (2,2,33)
p11 = gC (3,2,33)
p12 = gC (3,2,27)
p13 = gC (2,2,27)
p14 = gC (3,2,27)
p15 = gC (3,0,27)
```

```
coords_buch_17 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_17, 1)
```

```
#Buch 18 gerade
```

```
dm.newEmptyLayer("Buch 18", [190,190,220])
```

```
p0 = gC (3,0,27)
p1 = gC (3,0,34)
p2 = gC (3,2,34)
p3 = gC (3,2,27)
p4 = gC (3,0,27)
p5 = gC (4,0,27)
p6 = gC (4,0,34)
p7 = gC (3,0,34)
p8 = gC (4,0,34)
p9 = gC (4,2,34)
p10 = gC (3,2,34)
p11 = gC (4,2,34)
p12 = gC (4,2,27)
p13 = gC (3,2,27)
p14 = gC (4,2,27)
```

p15 = gC (4,0,27)

coords_buch_18 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_18, 1)

#Buch 19 legend

dm.newEmptyLayer("Buch 19", [205,205,190])

p0 = gC (7,0,27)

p1 = gC (4,0,27)

p2 = gC (4,2,27)

p3 = gC (7,2,27)

p4 = gC (7,0,27)

p5 = gC (7,0,30)

p6 = gC (4,0,30)

p7 = gC (4,0,27)

p8 = gC (4,0,30)

p9 = gC (4,2,30)

p10 = gC (4,2,27)

p11 = gC (4,2,30)

p12 = gC (7,2,30)

p13 = gC (7,2,27)

p14 = gC (7,2,30)

p15 = gC (7,0,30)

coords_buch_19 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_19, 1)

#Buch 20 legend

dm.newEmptyLayer("Buch 20", [100,205,199])

p0 = gC (6,0,30)

p1 = gC (4,0,30)

p2 = gC (4,2,30)

p3 = gC (6,2,30)

p4 = gC (6,0,30)

p5 = gC (6,0,32)

p6 = gC (4,0,32)

p7 = gC (4,0,30)

p8 = gC (4,0,32)

```
p9 = gC (4,2,32)
p10 = gC (4,2,30)
p11 = gC (4,2,32)
p12 = gC (6,2,32)
p13 = gC (6,2,30)
p14 = gC (6,2,32)
p15 = gC (6,0,32)
```

```
coords_buch_20 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_20, 1)
```

#Buch 21 gerade

```
dm.newEmptyLayer("Buch 21", [190,190,220])
```

```
p0 = gC (7,0,27)
p1 = gC (7,0,37)
p2 = gC (7,2,37)
p3 = gC (7,2,27)
p4 = gC (7,0,27)
p5 = gC (8,0,27)
p6 = gC (8,0,37)
p7 = gC (7,0,37)
p8 = gC (8,0,37)
p9 = gC (8,2,37)
p10 = gC (7,2,37)
p11 = gC (8,2,37)
p12 = gC (8,2,27)
p13 = gC (7,2,27)
p14 = gC (8,2,27)
p15 = gC (8,0,27)
```

```
coords_buch_21 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_21, 1)
```

#Buch 22 schraeg

```
dm.newEmptyLayer("Buch 22", [190,222,222])
```

```
p0 = gC (8,0,28)
p1 = gC (9,0,35)
p2 = gC (9,2,35)
```

```
p3 = gC (8,2,28)
p4 = gC (8,0,28)
p5 = gC (9,0,27)
p6 = gC (10,0,34)
p7 = gC (9,0,35)
p8 = gC (10,0,34)
p9 = gC (10,2,34)
p10 = gC (9,2,35)
p11 = gC (10,2,34)
p12 = gC (9,2,27)
p13 = gC (8,2,28)
p14 = gC (9,2,27)
p15 = gC (9,0,27)
```

```
coords_buch_22 = [p0, p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11, p12, p13, p14, p15]
rs.AddCurve(coords_buch_22, 1)
```

```
#_____ :here you end
```

```
#####
```

```
#rs.ZoomExtents()
```

```
rs.EnableRedraw(1) ### 4 the MACs
```

```
dm.printDisplay(1)
```

```
dm.newEmptyLayer("Default")
```

