

THE PERSON

LINDSEY STIRLING IS AN AMERICAN VIOLINIST, SONGWRITER AND DANCER. SHE PRESENTS CHOREOGRAPHED VIOLIN PERFORMANCES.

STIRLING PERFORMS A VARIETY OF MUSIC STYLES, FROM CLASSICAL TO POP AND ROCK TO ELECTRONIC DANCE MUSIC, MOSTLY ON ELECTRIC VIOLINS.

HER MUSIC VIDEO "CRYSTALLIZE" FINISHED AS THE EIGHTH-MOST WATCHED VIDEO OF 2012 ON YOUTUBE AND SHE ALSO ACHIEVED ONE MILLION SINGLES SOLD WORLDWIDE BY AUGUST 2014.

HER DEBUT ALBUM WAS A COMMERCIAL SUCCESS IN EUROPE, SELLING 200,000 COPIES IN GERMANY, WINNING A PLATINUM CERTIFICATION; THREE ADDITIONAL CERTIFICATIONS WERE GIVEN BY AUSTRIA, SWITZERLAND, AND POLAND.

THE ALBUM WAS NOMINATED FOR THE 2014 BILLBOARD MUSIC AWARDS FOR TOP DANCE/ELECTRONIC ALBUMS. STIRLING'S SECOND ALBUM SHATTER ME WON TOP DANCE/ELECTRONIC ALBUM AT THE 2015 BILLBOARD MUSIC AWARDS.

THE PROJECT

AS THE FOUNDATION FOR THE PROJECT I USED ONE OF HER MANY ICONIC ELECTRIC VIOLINS BECAUSE OF ITS UNIQUE DESIGN AND SHAPE.

I ENVISIONED THE VIOLIN BROKEN DOWN TO SIMPLE BUT RECOGNISABLE SHAPES AND DEPICTED BY AN ARRAY OF HUNDRETS OF ORGANIZED LINES AND CURVES.

DUE TO HER POPULAR AND ICONIC MUSIC VIDEO FROM THE SONG "CRYSTALLIZE" (IN WHICH SHE DANCES SURROUNDED BY ICE AND SNOW WHILE PLAYING THE VIOLIN), I CHOSE TO PLACE THE VIOLIN IN AN SIMMLAR SURROUNDING. THE LOCATION OF MY CODED VIOLIN IS SURROUNDED BY THE LOWER SUMMITS OF THE MOUNTAIN "DACHSTEIN".

THE PROJECT IS AN HOMAGE TO LINDSEY STIRLING, AS THANKS FOR BRINGING THE COMBINATION OF CLASSICAL MUSIC AND ELECTRONIC DANCE MUSIC TO THE WORLD AND IMPACTING MY TASTE IN MUSIC TO THIS DAY.

THE CODE

```
dom = rs.CurveDomain ( KorpusCurve_0 )
print "dom =", dom
dom = rs.CurveDomain ( KorpusCurve_0 ) [1]
print "dom =", dom

if 1:
    circDiv = 4
    allCoordsLists = []
    for cor in KorpusCurve_0_coords:
        paraX = rs.CurveClosestPoint( KorpusCurve_0, cor
)
        planeX = rs.CurvePerpFrame (KorpusCurve_0, paraX)
        tanX = rs.CurveTangent(KorpusCurve_0, paraX)
        circ = rs.AddCircle ( planeX, 1)
        rs.RotateObject(circ, cor, 45.0, tanX)
        circCoords = rs.DivideCurve(circ, circDiv,
create_points=0)
        rs.DeleteObject( circ )
        allCoordsLists.append(circCoords)
        circCoords.append(circCoords[0] )
        rs.AddCurve(circCoords, 1)
    for i in range(circDiv):
        coords = []
        for list in allCoordsLists:
            pX = list[i]
            coords.append (pX)
            rs.ObjectColor (rs.AddInterpCurve(coords,
degree=2, knotstyle=3), [0,0,0])

circDiv = 4
allCoordsLists = []
print len(KorpusCurve_1_coords)
zuwachs = -0.5
deltaZuwachs = zuwachs/(len(KorpusCurve_1_coords)-1)
for i,cor in enumerate(KorpusCurve_1_coords):
    paraX = rs.CurveClosestPoint( KorpusCurve_1, cor )
    pntOnCrv = rs.EvaluateCurve(KorpusCurve_1, paraX)
    planeX = rs.CurvePerpFrame (KorpusCurve_1, paraX)
    tanX = rs.CurveTangent(KorpusCurve_1, paraX)
    #print tanX, planeX
    print 1+deltaZuwachs*i
    circ = rs.AddCircle ( planeX, 1+deltaZuwachs*i)
    rs.RotateObject(circ, pntOnCrv, 45.0, tanX)
    circCoords = rs.DivideCurve(circ, circDiv,
create_points=0)
    rs.DeleteObject( circ )
    allCoordsLists.append(circCoords)
    circCoords.append(circCoords[0] )
    rs.AddCurve(circCoords, 1)

if 1:
    for i in range(circDiv):
        coords = []
        for list in allCoordsLists:
            pX = list[i]
            coords.append (pX), 2), [0,100,100])
```