

CZ2003 Computer Graphics and Visualisation

Experiment 5: Morphing

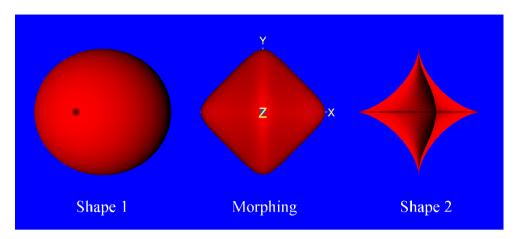
Name: Ngo Jun Hao Jason

Matriculation Number: XXXXXXXX

Lab Group: XXX

Surface numbers: 21 and 25

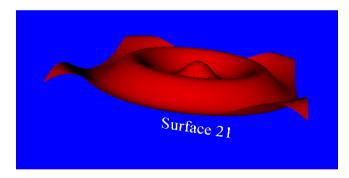
Exercise 1



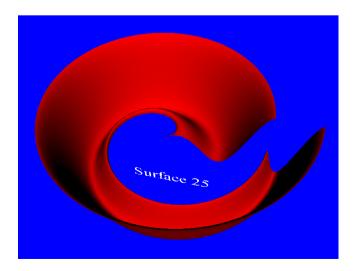
Exercise 2 and 3

- Formula_number_1 = 21
- Formula_number_2 = 21 + 4 = 25

Exercise 4



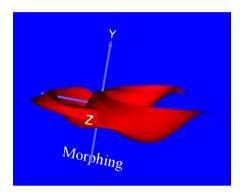
Exercise 5



Exercise 6

- surface 21: already parameterised (let a = u, b = v)
- surface 25:
 - o $x = 0.2 * sqrt(16(\pi/2*u)^2 + 4(\pi*v)^2) * cos(2\pi*v)$
 - o $y = 0.4(\pi/2^*u) * cos(4^*\pi/2^*u)$
 - o $z = -0.2 * sqrt(16(\pi/2*u)^2 + 4(\pi*v)^2) * sin(2\pi*v)$

Exercise 7



Exercise 8

- resolution of surface 21: [100 100]
- resolution of morphing surface: [50 50]
 - o higher resolution results in a bit of jitter at the start
- resolution of surface 25: [100 100]

Exercise 9



Exercise 10

• refer to the folder "Created_Shapes"

Exercise 11

refer to this report