

(1):3d_sphere:

The Eigenvalue of of 3d_sphere is

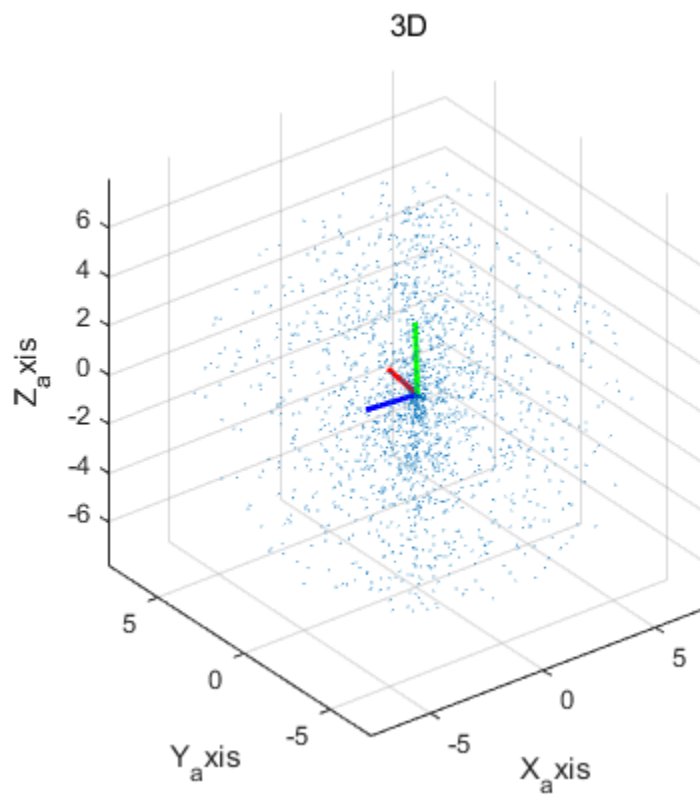
$$\lambda_1 = 5.2310; \lambda_2 = 5.3922; \lambda_3 = 10.6300;$$

The Eigenvector of of 3d_sphere is

$$v1 = \begin{bmatrix} -0.9897 \\ 0.1412 \\ -0.0221 \end{bmatrix}$$

$$v2 = \begin{bmatrix} 0.1414 \\ 0.9899 \\ -0.0113 \end{bmatrix}$$

$$v3 = \begin{bmatrix} -0.0203 \\ 0.0144 \\ 0.9997 \end{bmatrix}$$



(2):teapot :

The Eigenvalue of of 3d_sphere is

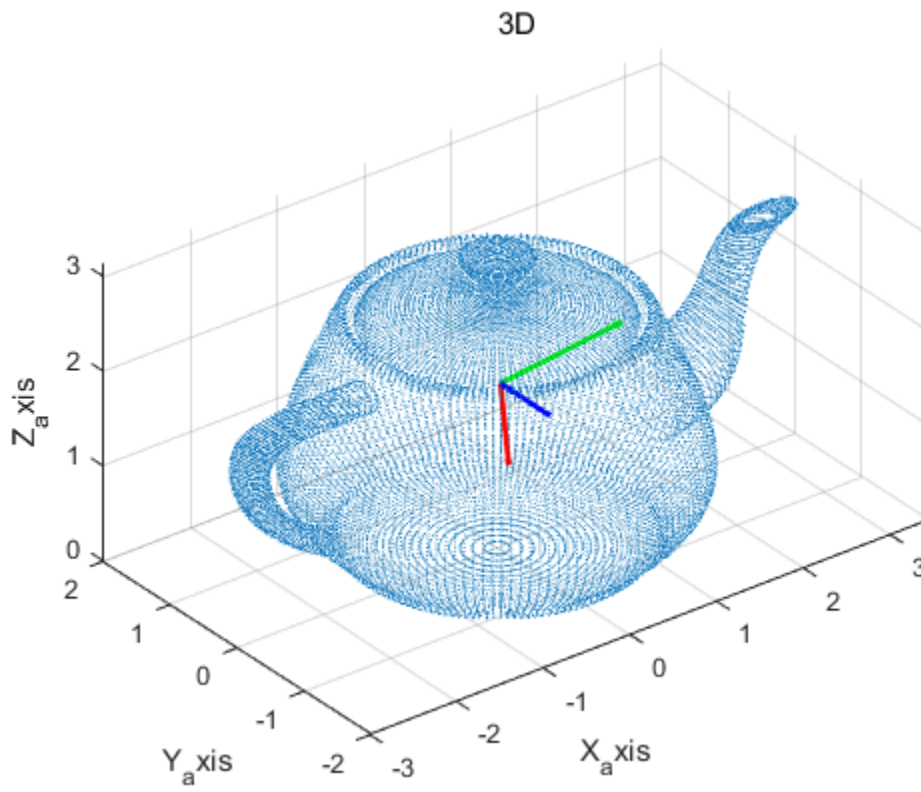
$$\lambda_1 = 0.6773; \lambda_2 = 0.9946; \lambda_3 = 2.4544;$$

The Eigenvector of of 3d_sphere is

$$v1 = \begin{bmatrix} -0.0000 \\ -1.0000 \\ 0.0000 \end{bmatrix}$$

$$v2 = \begin{bmatrix} 0.1080 \\ -0.0000 \\ -0.9942 \end{bmatrix}$$

$$v3 = \begin{bmatrix} 0.9942 \\ -0.0000 \\ 0.1080 \end{bmatrix}$$



(2):bun_zipper :

The Eigenvalue of of 3d_sphere is

$$\lambda_1 = 0.0007; \lambda_2 = 0.0012; \lambda_3 = 0.0023;$$

The Eigenvector of of 3d_sphere is

$$v1 = \begin{bmatrix} 0.1478 \\ 0.3232 \\ 0.9347 \end{bmatrix}$$

$$v2 = \begin{bmatrix} 0.7247 \\ 0.6078 \\ -0.3247 \end{bmatrix}$$

$$v3 = \begin{bmatrix} -0.6730 \\ 0.7254 \\ -0.1444 \end{bmatrix}$$

