

**Ministry of Higher Education and Scientific Research**  
**University of Anbar**  
**College of Computer Science and Information Technology**  
**Computer Science Department**



# **Computer Graphics 3D**

**8<sup>th</sup> Lab**

**By:**

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## Three-Dimension Scaling:

```
clc;
s=[6 0 0 ; 0 8 0 ; 0 0 8];
a=[2 6 6];
b=[6 6 8];
c=[6 2 6];
d=[2 6 6];
a1=a.*s;
b1=b.*s;
c1=c.*s;
d1=d.*s;

xaxis= [a(1), b(1), c(1), d(1)];
yaxis= [a(2), b(2), c(2), d(2)];
zaxis= [a(3), b(3), c(3), d(3)];
plot3(xaxis, yaxis, zaxis, 'r');
hold on; grid

x_axis=[a1(1), b1(1), c1(1), d1(1)];
y_axis=[a1(5), b1(5), c1(5), d1(5)];
z_axis=[a1(9), b1(9), c1(9), d1(9)];
plot3(x_axis, y_axis, z_axis, 'g');
```

