Assignemnt3\_main.m

cla

set(gca,'xlim', [0,1], 'xtick', [], 'ytick', [], 'box', 'on', 'Position', [0.1,0.15,0.8,0.8])

text(.5,.72,'Assignment 3, Plane, cube and its Projection on the Plane', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

x=0;y=10;w=80;h=30;xinc=80;

uicontrol('String', 'Axes', 'Callback', 'axes', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'Plane', 'Callback', 'plane', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'Cube', 'Callback', 'cube', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'ParallelProCube', 'Callback', 'parallel', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'Perspective', 'Callback', 'perspective', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'Reset', 'Callback', 'Assignment3\_main', 'Position', [x,y,w,h]);x=x+xinc;

uicontrol('String', 'About', 'Callback', 'about', 'Position', [x,y,w,h]);x=x+xinc;

plane.m

x = [-150, 150, 150, -150, 150,...

-150, -150, 150, 150, -150,...

300, 300, 310, 310, 300];

plot3(x);

axes.m

X = [-50:450];

Y = [-50:450];

Z = [-50:450];

plot3(squeeze(X),squeeze(Y),squeeze(Z))

xlabel('x')

ylabel('y')

zlabel('z')

cla

grid on

about.m

cla;

text(.5,.92,'Assignment 3, Parallel Projection', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.82,'Computer Graphics CS358', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.62,'For', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.52,'Chaman L. Sabharwal', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.42,'Presented by', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.32,'Thomas Dolan', 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

text(.5,.22,[date], 'Fontsize', 12, 'Fontweight', 'bold', 'FontName', 'Times', 'HorizontalAlignment', 'center', 'Color', 'm')

set(gca, 'xlim',[0,1],'ylim',[0,1],'xtick',[],'ytick',[],'box','on','Position',[0.1,0.15,0.8,0.8])

