MATLAB Graphics: Aligning Text

Notes:

Text(x,y,s) displays the string s at coordinate (x, y). It is possible to control whether the string is above, below, to the right, or to the left of (x, y).

Example Script:

```
% Script File: ShowTextAlignment
% How to place text relative to a coordinate point.
  close all
  HA = 'HorizontalAlignment'; HV = 'VerticalAlignment';

  figure
  plot(0,0,'*')
  axis([-1 1 -1 1])
  axis equal square
  set(gca,'xTick',[-1 0 1],'yTick',[-1 0 1])
  grid on
  text(0,0,'  (0,0)  ',HA,'left','color','r','Fontweight','bold')
  title('Left edge of text aligned.')

  figure
  plot(0,0,'*')
  axis([-1 1 -1 1])
  axis equal square
  set(gca,'xTick',[-1 0 1],'yTick',[-1 0 1])
  grid on
  text(0,0,'  (0,0)  ',HA,'right','color','r','Fontweight','bold')
  title('Right edge of text aligned.')

  figure
  plot(0,0,'*')
  axis([-1 1 -1 1])
  axis equal square
  set(gca,'xTick',[-1 0 1],'yTick',[-1 0 1])
  grid on
  text(0,0,'  (0,0)  ',HA,'center','color','r','Fontweight','bold')
  title('Center of text aligned.')

  figure
  plot(0,0,'*')
  axis([-1 1 -1 1])
  axis equal square
  set(gca,'xTick',[-1 0 1],'yTick',[-1 0 1])
  grid on
  text(0,0,'  (0,0)  ',HA,'left',HV,'top','color','r','Fontweight','bold')
  title('Left top edge of text aligned.')

  figure
  plot(0,0,'*')
  axis([-1 1 -1 1])
  axis equal square
  set(gca,'xTick',[-1 0 1],'yTick',[-1 0 1])
  grid on
  text(0,0,'  (0,0)  ',HA,'right',HV,'bottom','color','r','Fontweight','bold')
  title('Right bottom edge of text aligned.')
```
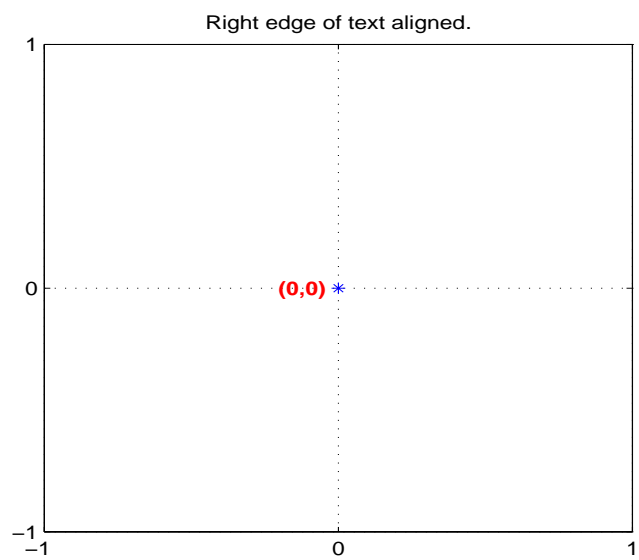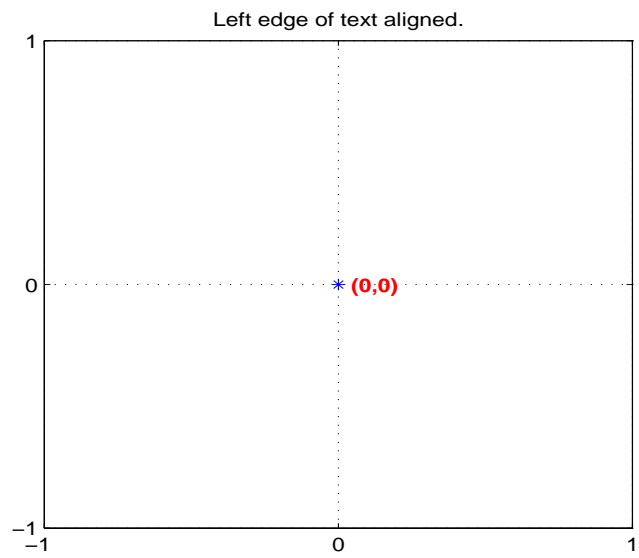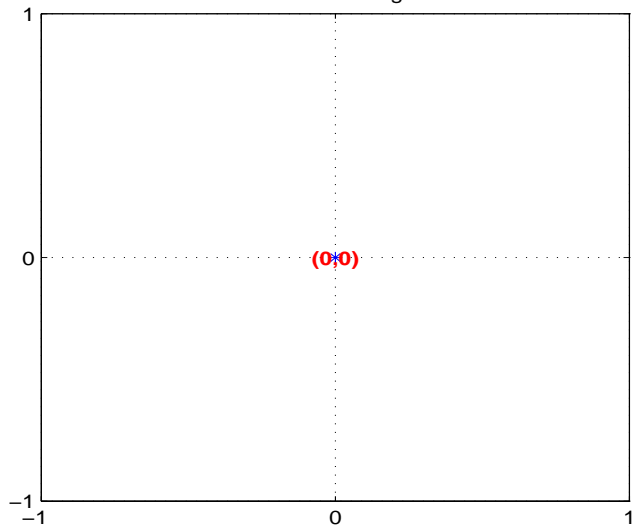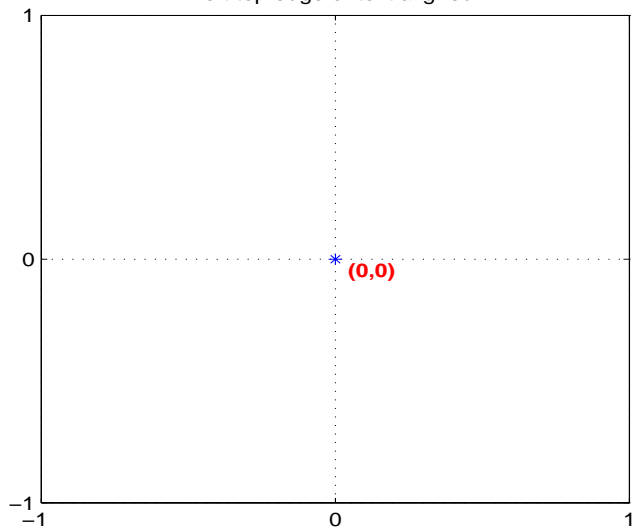
Sample Output:

Left edge of text aligned.

∗ (0,0)

Right edge of text aligned.

(0,0) ∗

Center of text aligned.

(0,0)

Left top edge of text aligned.

(0,0)

Right bottom edge of text aligned.