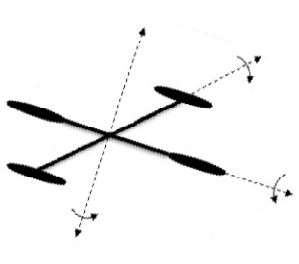
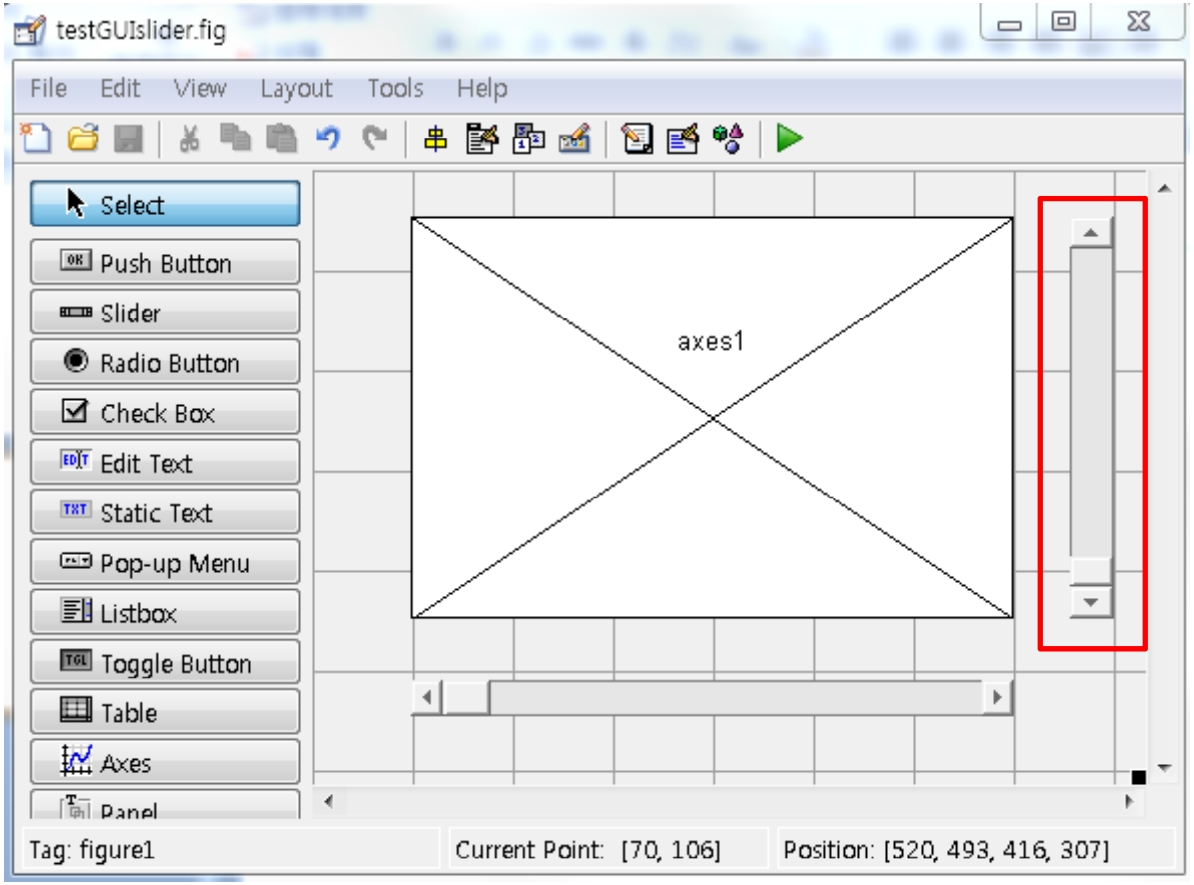
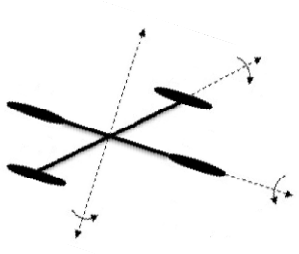
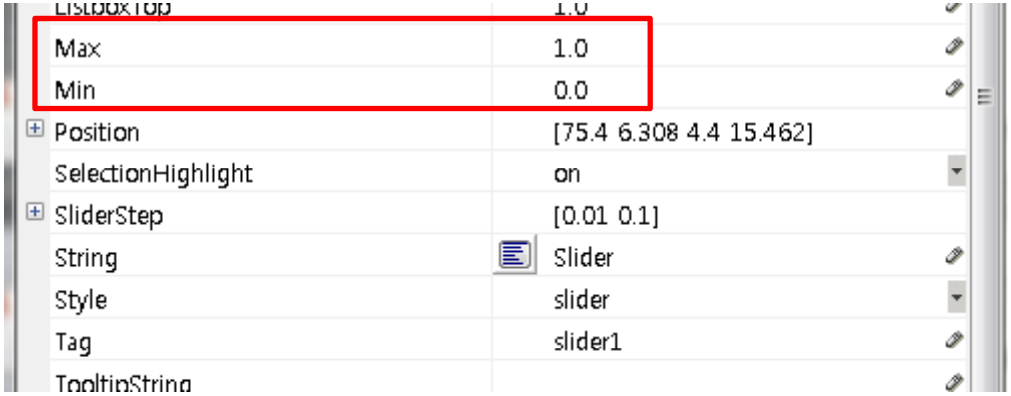
M A T L A B

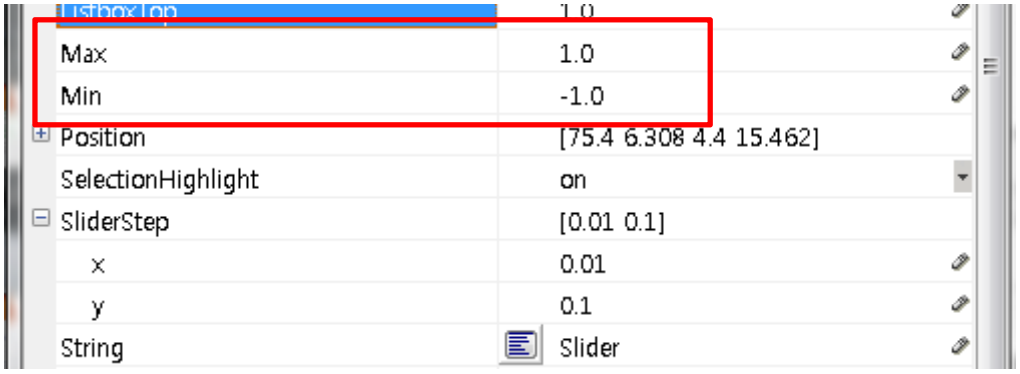
GUI 기초 – slider 사용

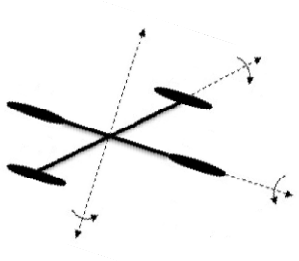


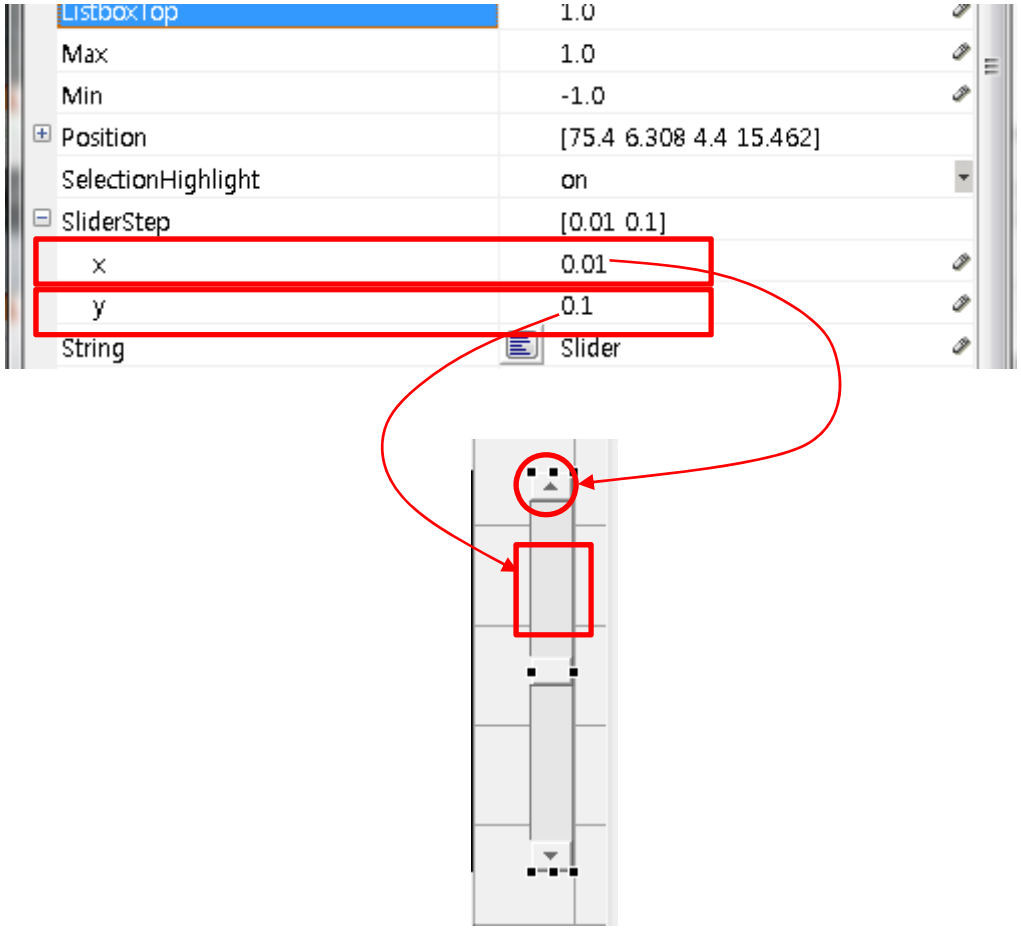

testGUIslider.fig
File Edit View Layout Tools Help
Select
Push Button
Slider
Radio Button
Check Box
Edit Text
Static Text
Pop-up Menu
Listbox
Toggle Button
Table
Axes
Panel
axes1
Tag: figure1
Current Point: [70, 106]
Position: [520, 493, 416, 307]

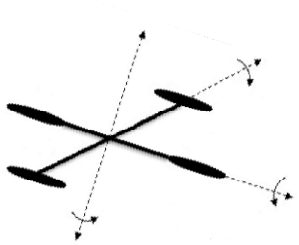


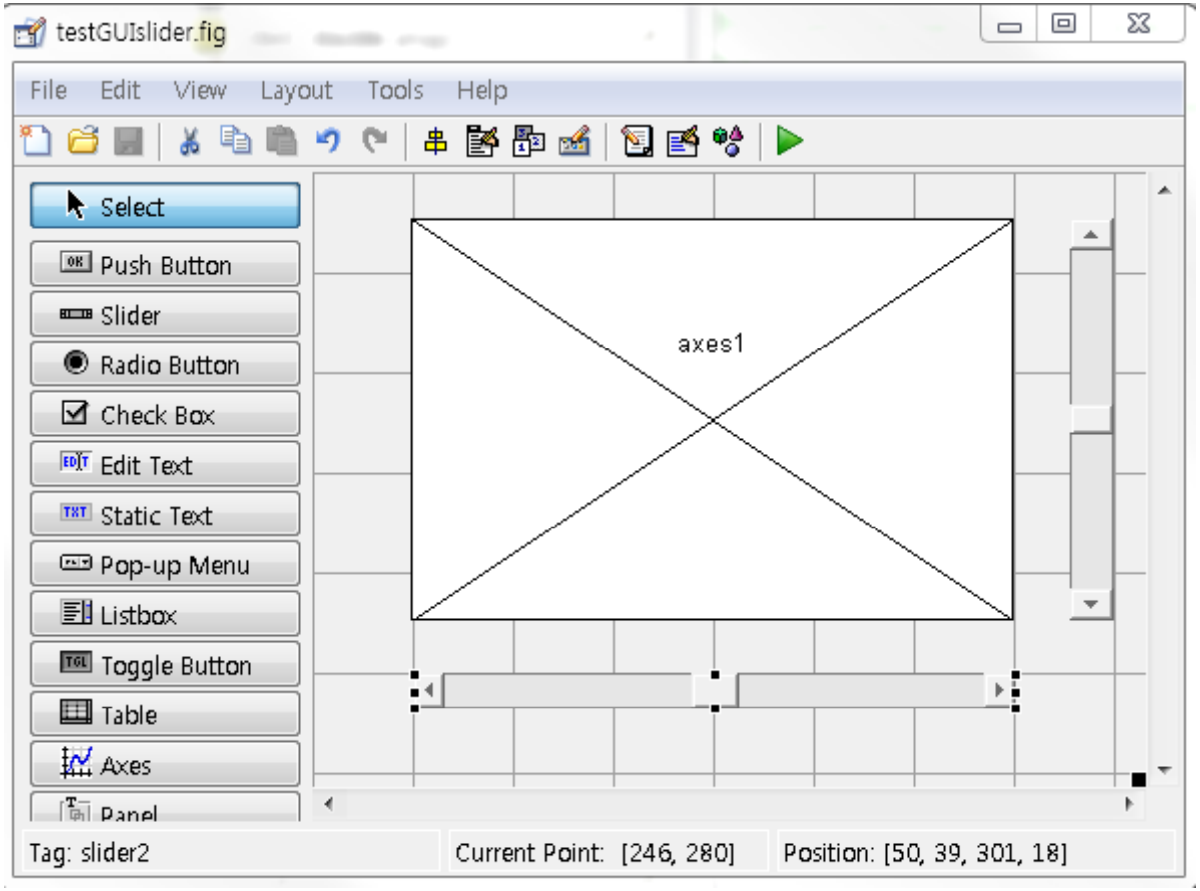

ListboxTop 1.0
Max 1.0
Min 0.0
Position [75.4 6.308 4.4 15.462]
SelectionHighlight on
SliderStep [0.01 0.1]
String Slider
Style slider
Tag slider1
TooltipString

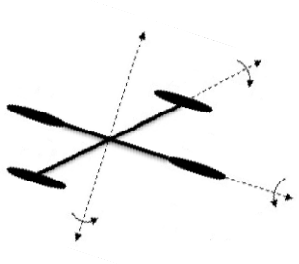

ListboxTop 1.0
Max 1.0
Min -1.0
Position [75.4 6.308 4.4 15.462]
SelectionHighlight on
SliderStep [0.01 0.1]
x 0.01
y 0.1
String Slider



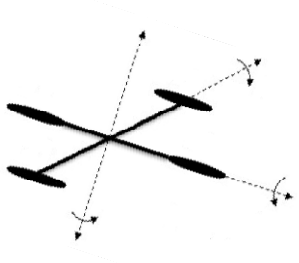

ListboxTop
1.0
Max
1.0
Min
-1.0
Position
[75.4 6.308 4.4 15.462]
SelectionHighlight
on
SliderStep
[0.01 0.1]
x
0.01
y
0.1
String
Slider

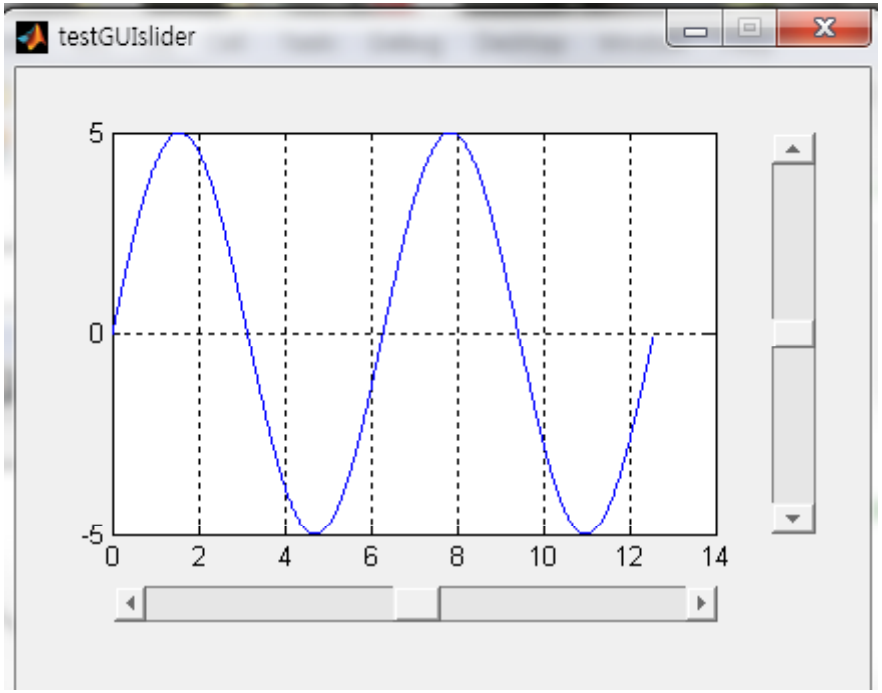


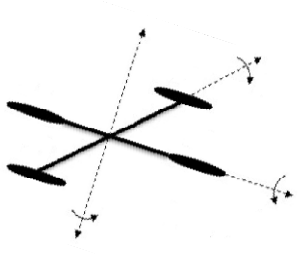

testGUIslider.fig
File Edit View Layout Tools Help
Select
Push Button
Slider
Radio Button
Check Box
Edit Text
Static Text
Pop-up Menu
Listbox
Toggle Button
Table
Axes
Panel
axes1
Tag: slider2
Current Point: [246, 280]
Position: [50, 39, 301, 18]



```
function testGUIslider_OpeningFcn(hObject, eventdata, handles, varargin)

% Choose default command line output for testGUIslider
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes testGUIslider wait for user response (see UIRESUME)
% uiwait(handles.figure1);

t = 0:0.01:10*pi;
y = 5*sin(t);
plot(t, y)
grid on
axis([0 5*pi -5 5])
```

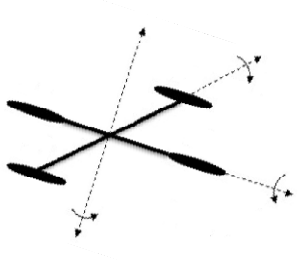


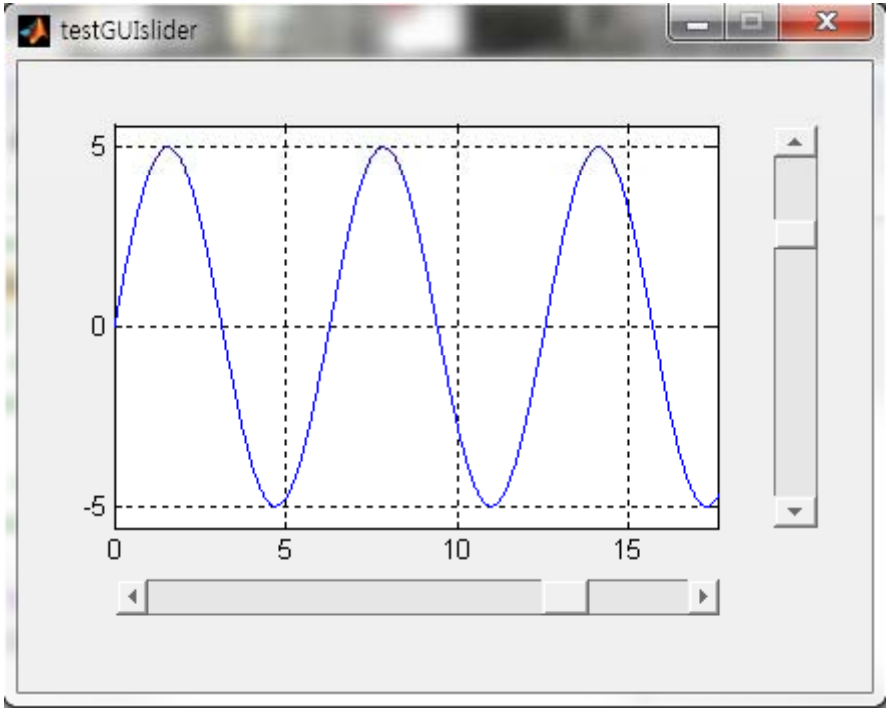

testGUIslider
5
0
-5
0
2
4
6
8
10
12
14



```
function slider1_Callback(hObject, eventdata, handles)

temp1 = get(handles.slider1, 'Value');
set(handles.axes1, 'ylim', [-(5+temp1) 5+temp1])
```

```
function slider2_Callback(hObject, eventdata, handles)

temp2 = get(handles.slider2, 'Value');
set(handles.axes1, 'xlim', [0 (5+temp2)*pi])
```




testGUIslider
5
0
-5
0
5
10
15