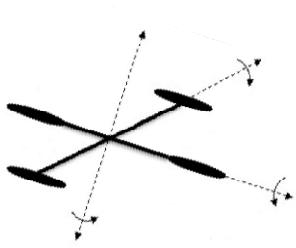




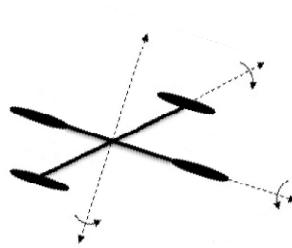
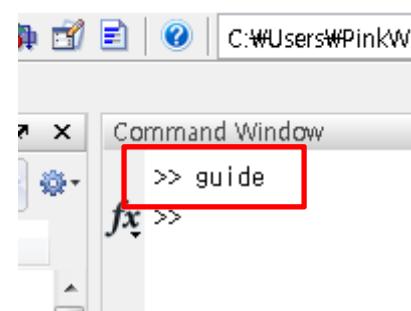
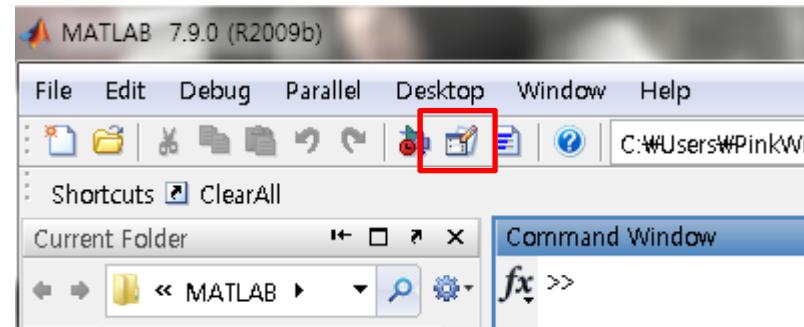
# MATLAB

## GUI 기초

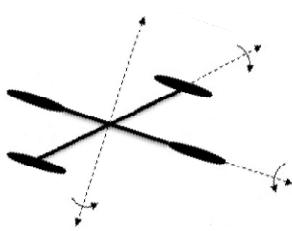
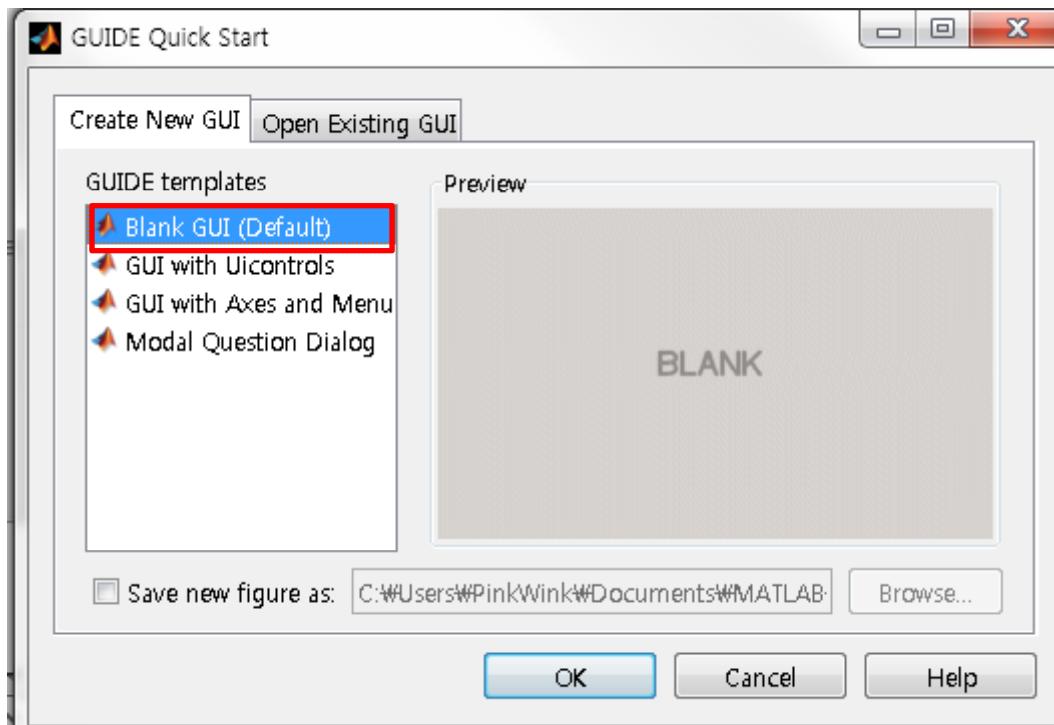


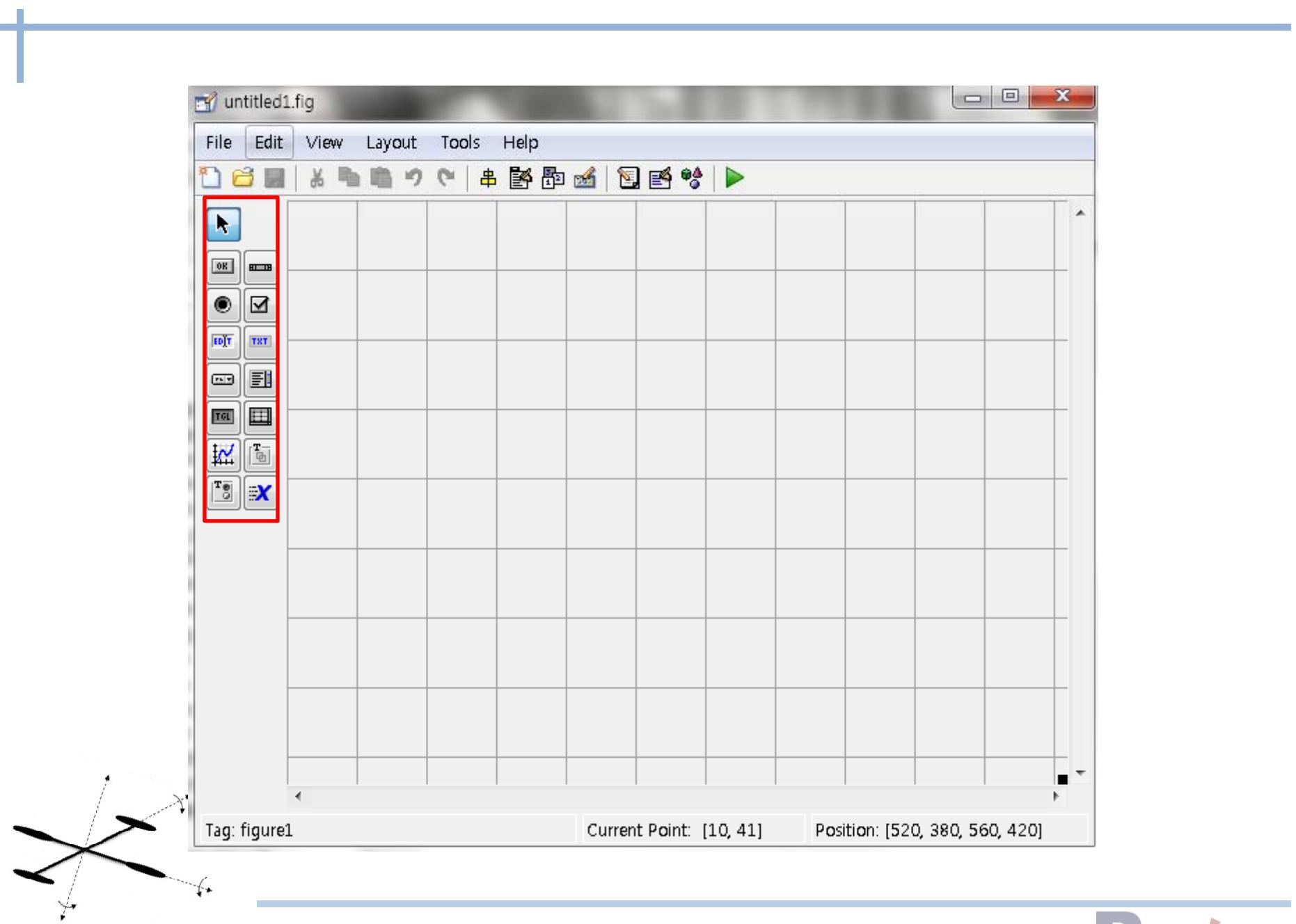


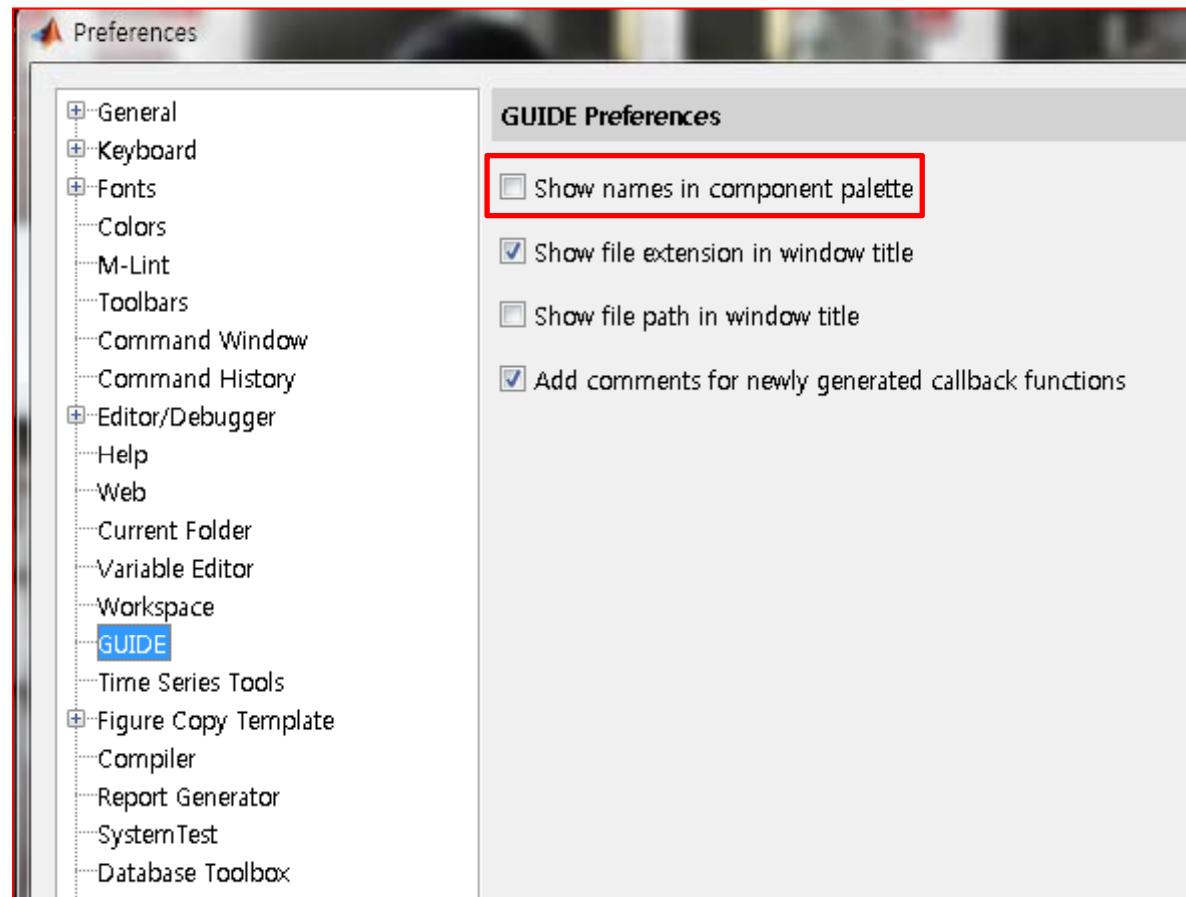
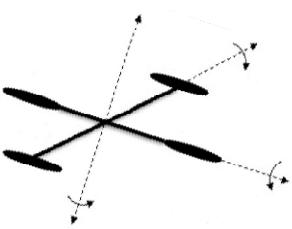
## - GUIDE 시작하기



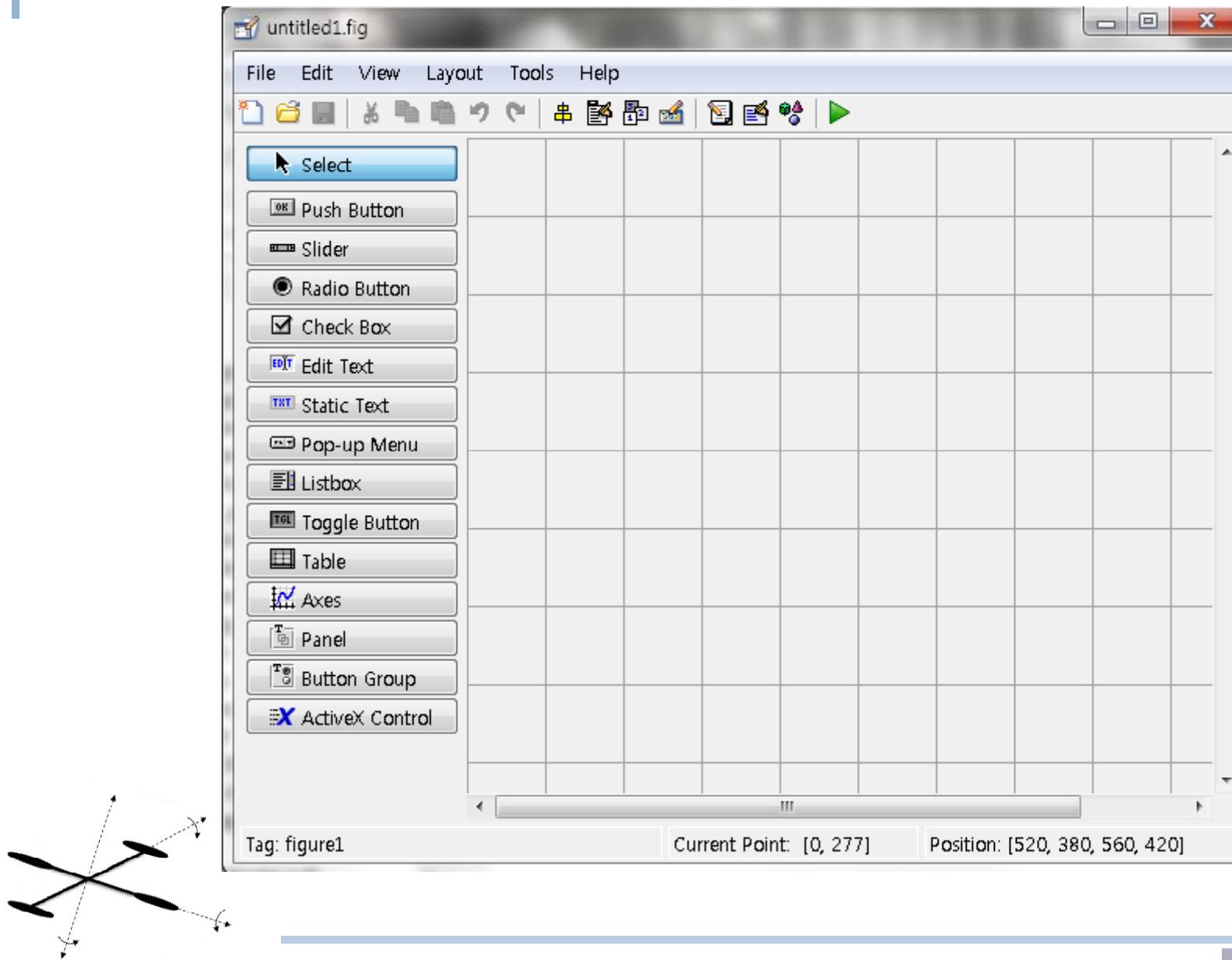
+

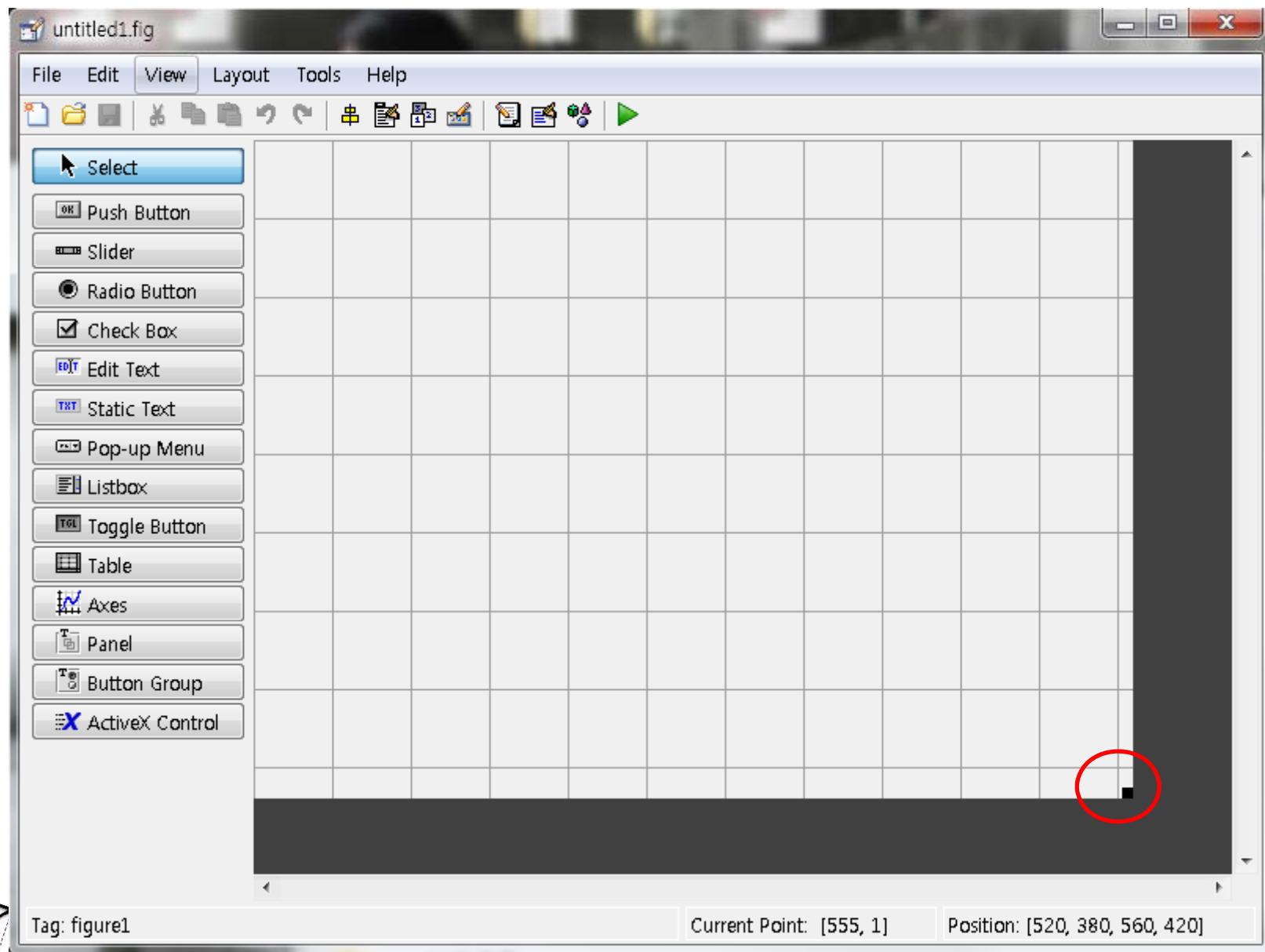






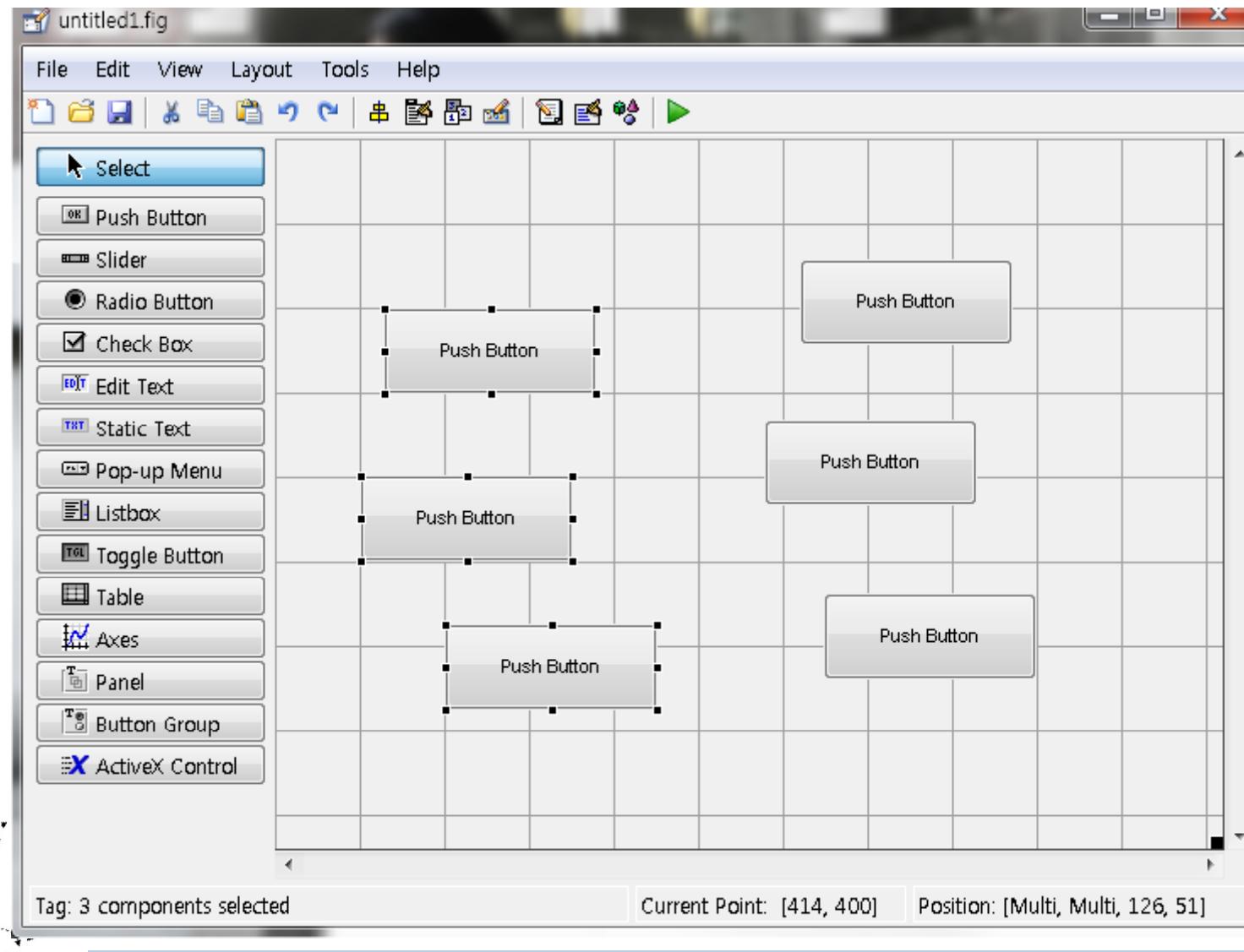
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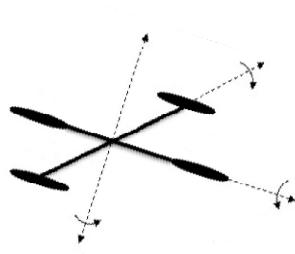
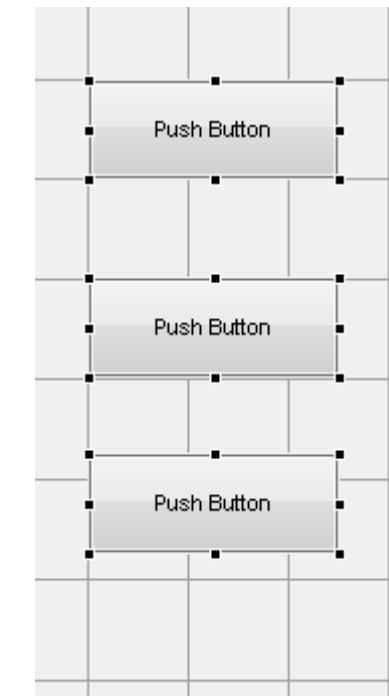
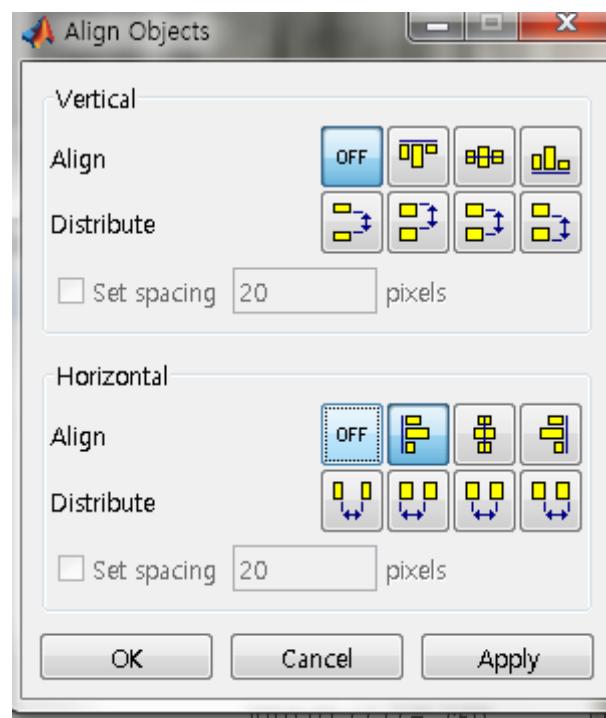




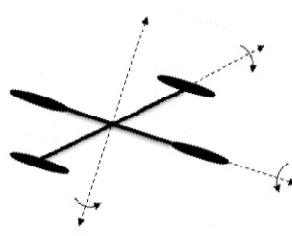
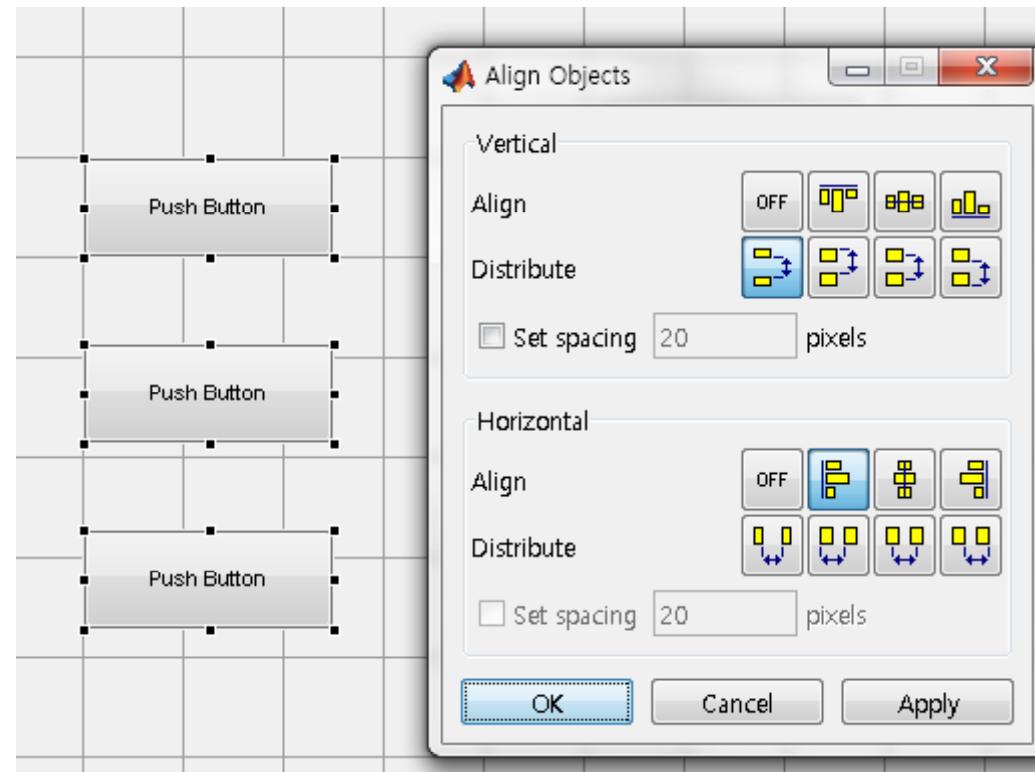


## - Align 하기



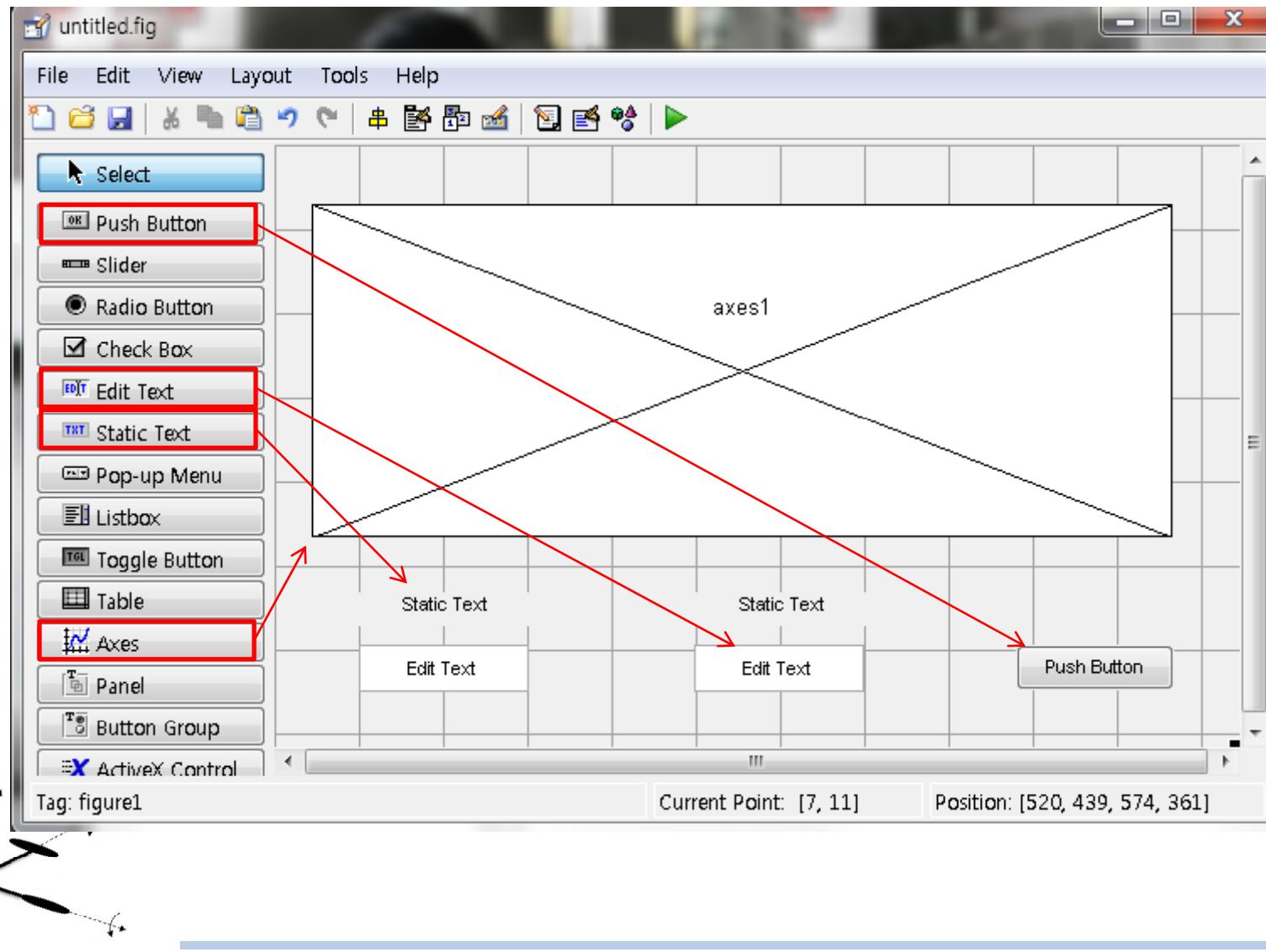


+





## - Simple Example





Inspector: uicontrol (text1 "Static Text")

BackgroundColor	[ ]	off
BeingDeleted	[ ]	queue
BusyAction	[ ]	[0x0 double array]
ButtonDownFcn	[ ]	
CData	[ ]	on
Callback	[ ]	
Clipping	[ ]	on
CreateFcn	[ ]	
DeleteFcn	[ ]	
Enable	[ ]	on
Extent	[ ]	[0 0 11 1.462]
FontAngle	[ ]	normal
FontName	[ ]	MS Sans Serif
FontSize	[ ]	8.0
FontUnits	[ ]	points
FontWeight	[ ]	normal
ForegroundColor	[ ]	black
HandleVisibility	[ ]	on
HitTest	[ ]	on
HorizontalAlignment	[ ]	center
Interruptible	[ ]	on
KeyPressFcn	[ ]	
ListboxTop	[ ]	1.0
Max	[ ]	1.0
Min	[ ]	0.0
Position	[ ]	[9.8 5.692 20.2 1.538]
SelectionHighlight	[ ]	on
SliderStep	[ ]	[0.01 0.1]
String	[ ]	Static Text
Style	[ ]	text

The Inspector window displays properties for a static text control named "text1". The "String" property is currently set to "Static Text". The "Style" property is set to "text". The "BusyAction" property is set to "queue". The "Extent" property is set to [0 0 11 1.462]. The "Position" property is set to [9.8 5.692 20.2 1.538]. The "FontName" is set to "MS Sans Serif" and the "FontSize" is 8.0 points. The "FontAngle" is "normal" and the "FontWeight" is "normal". The "FontUnits" is "points". The "HandleVisibility" is "on" and the "HitTest" is "on". The "HorizontalAlignment" is "center". The "TextColor" is black. The "VerticalAlignment" is "middle". The "String" property is highlighted with a red box.

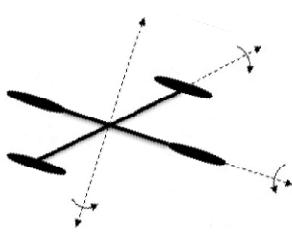
Static Text

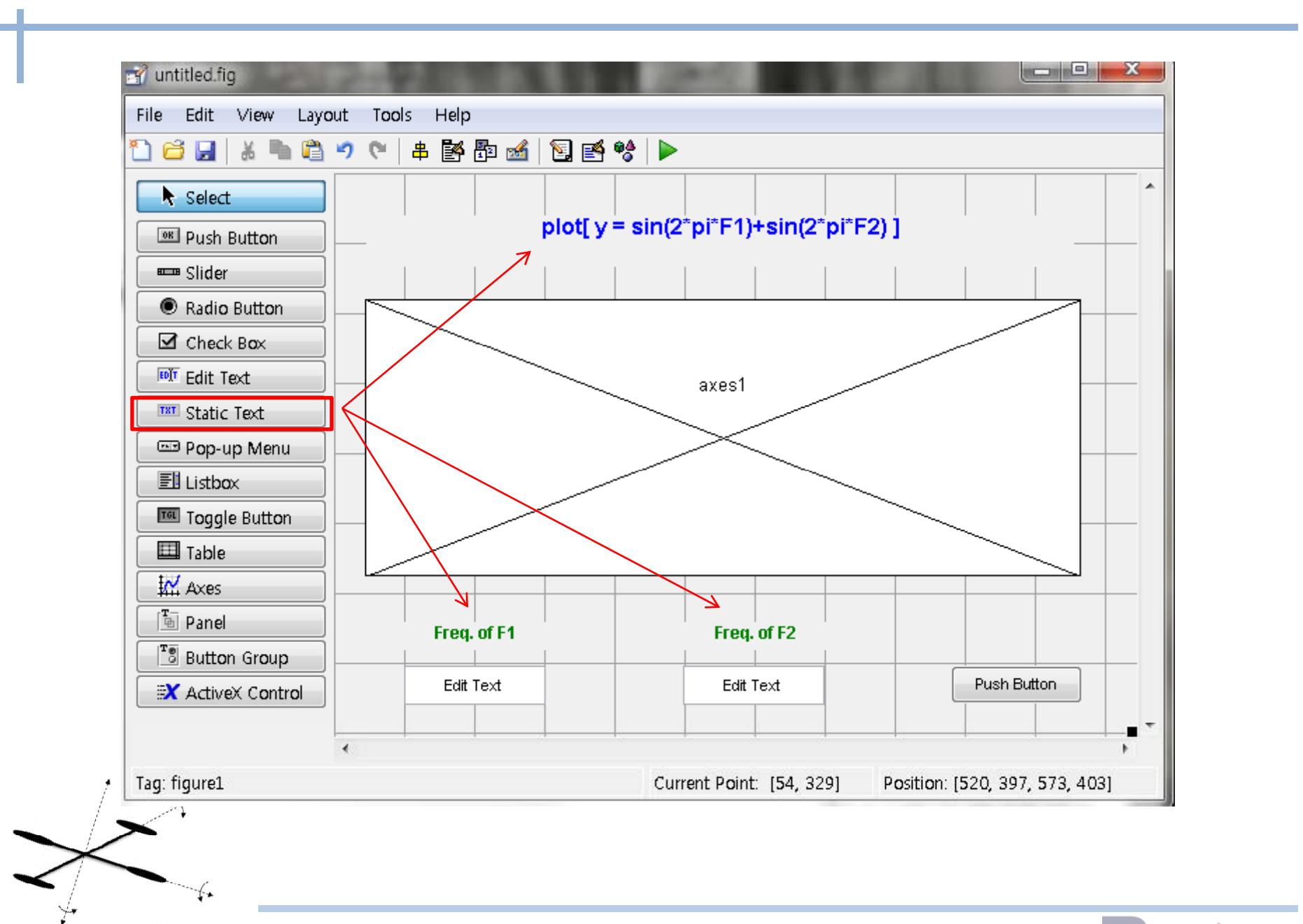
Edit Text

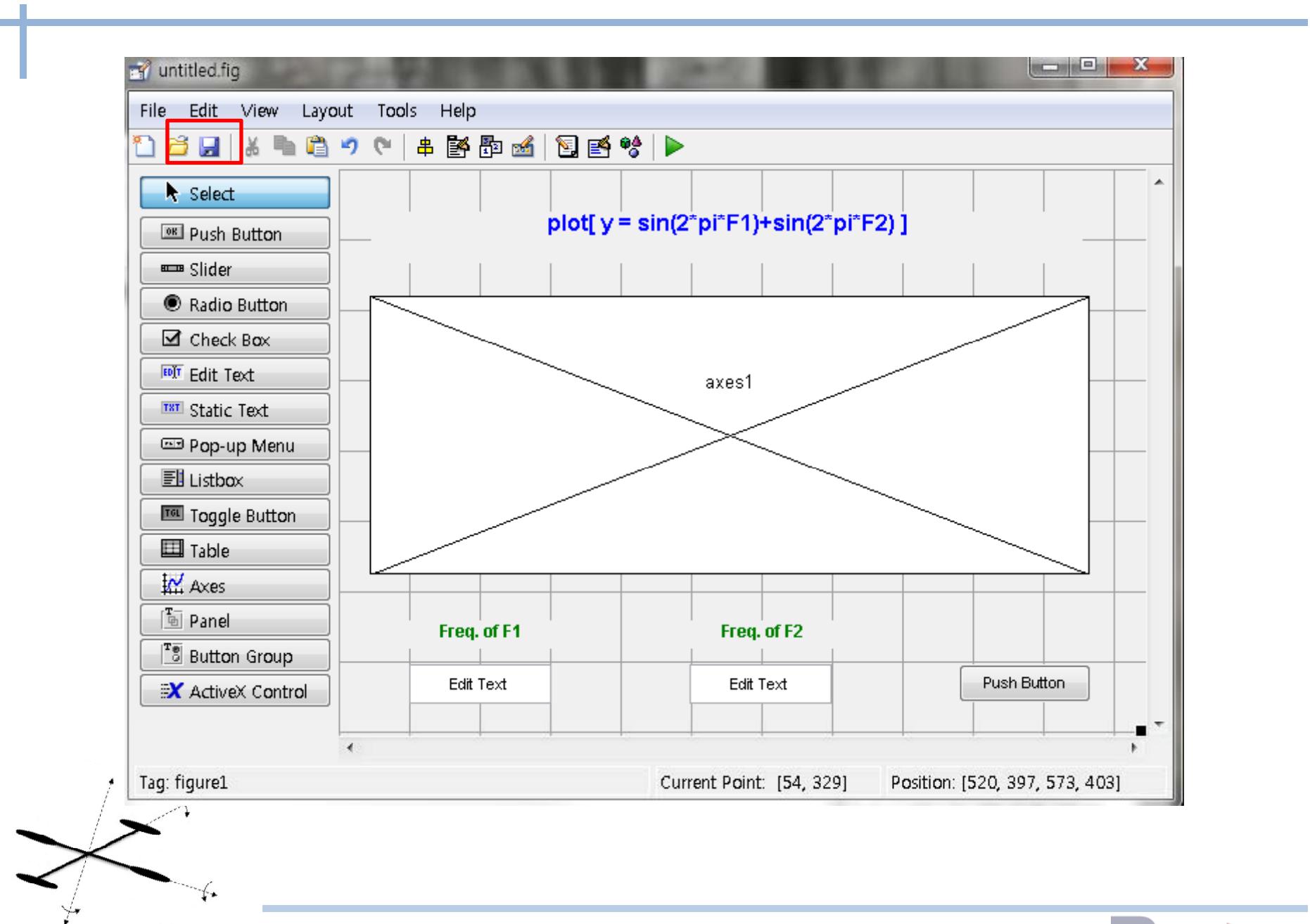


KeyPressFcn	
ListboxTop	1.0
Max	1.0
Min	0.0
+ Position	[9.8 5.692 20.2 1.538]
SelectionHighlight	on
+ SliderStep	[0.01 0.1]
String	Freq. of F1
Style	text

+ Extent	[0 0 11.4 1.462]
FontAngle	normal
FontName	MS Sans Serif
FontSize	8.0
FontUnits	points
FontWeight	normal
+ ForegroundColor	





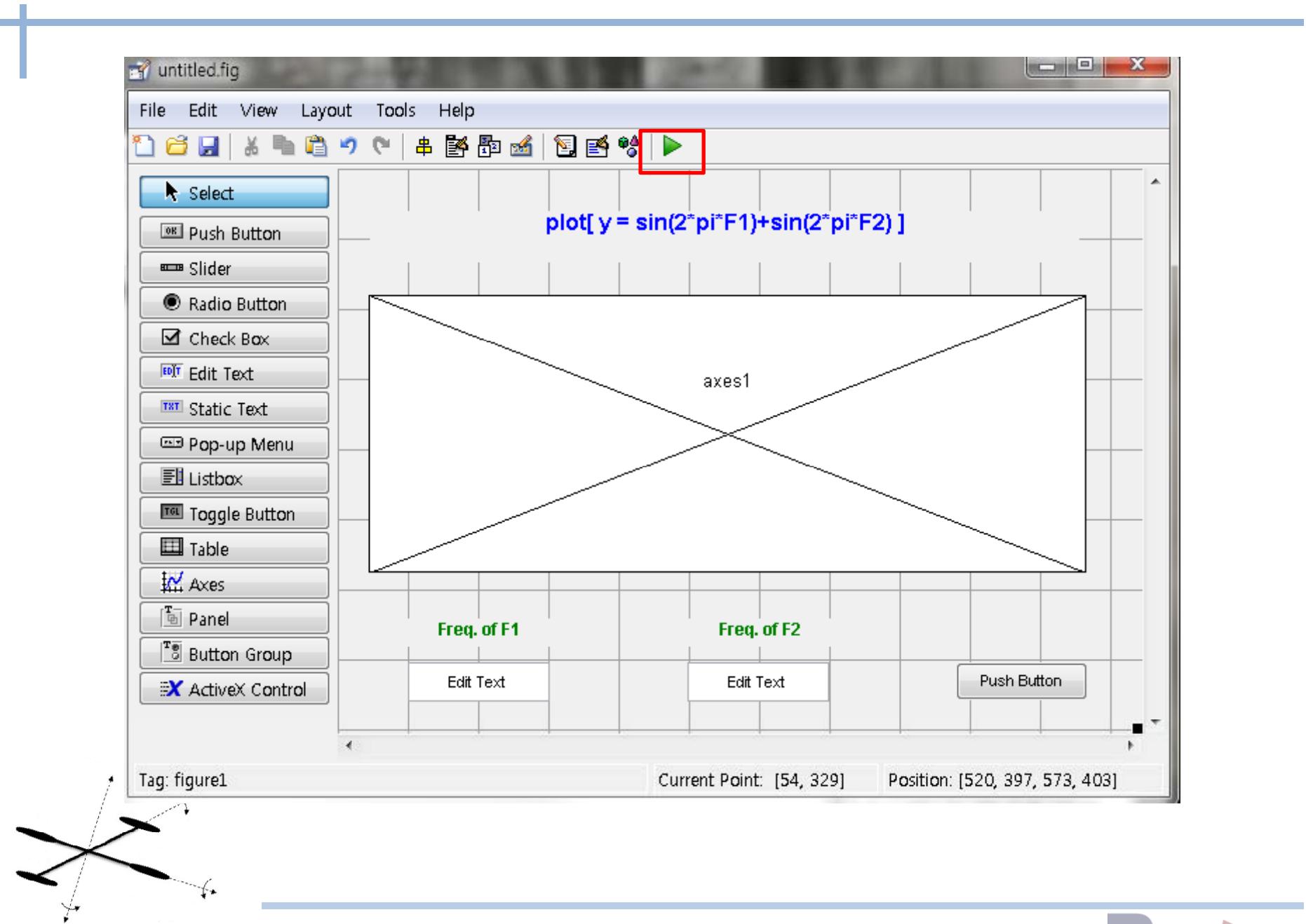


Editor - C:\Users\PinkWink\Desktop\testGUI.m

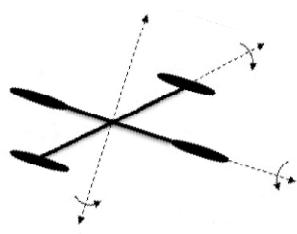
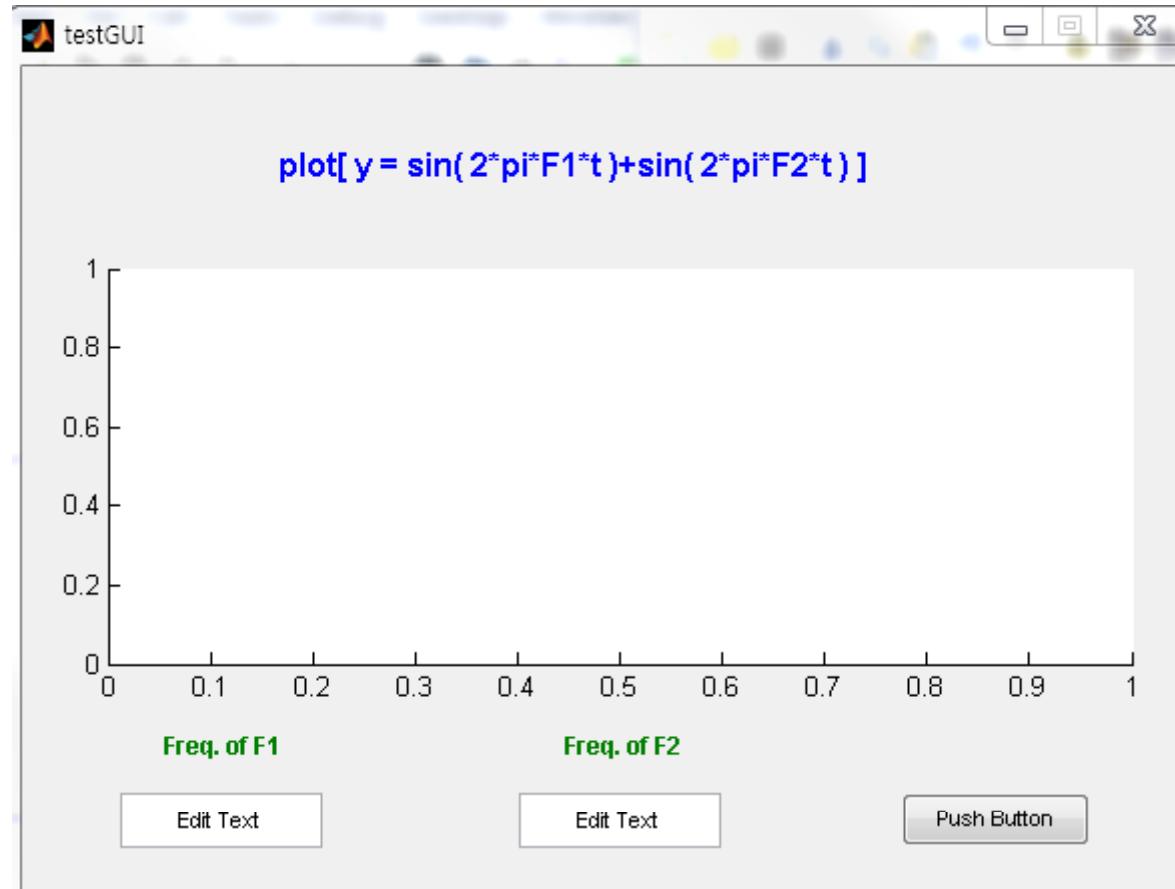
File Edit Text Go Cell Tools Debug Desktop Window Help

Stack: Base fx

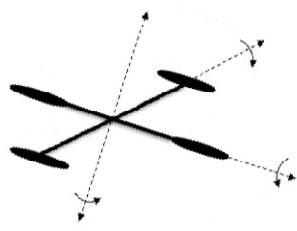
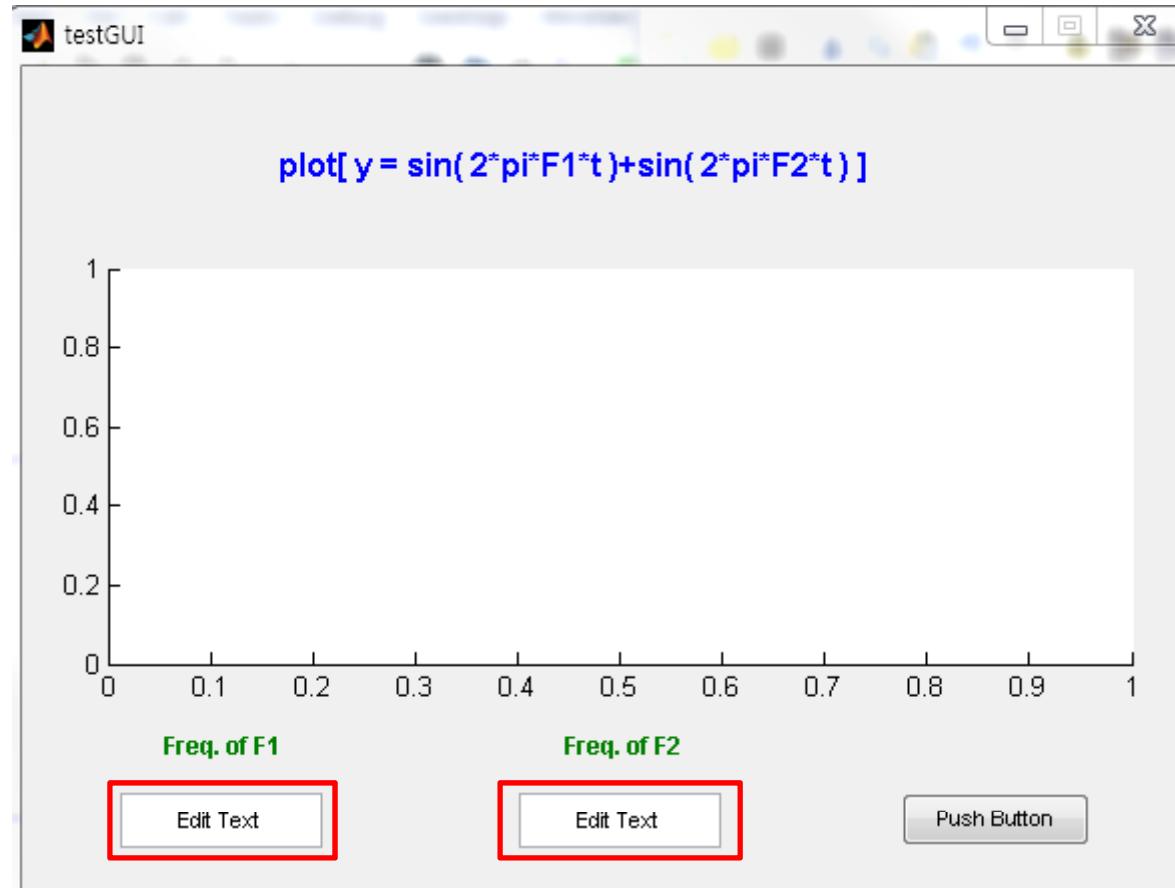
```
103 % handles    structure with handles and user data (see GUIDATA)
104
105 % Hints: get(hObject,'String') returns contents of edit2 as text
106 %         str2double(get(hObject,'String')) returns contents of edit2 as a double
107
108
109 % --- Executes during object creation, after setting all properties.
110 function edit2_CreateFcn(hObject, eventdata, handles)
111 % hObject    handle to edit2 (see GCBO)
112 % eventdata reserved - to be defined in a future version of MATLAB
113 % handles    empty - handles not created until after all CreateFcns called
114
115 % Hint: edit controls usually have a white background on Windows.
116 %        See ISPC and COMPUTER.
117 if ispc && isequal(get(hObject, 'BackgroundColor'), get(0, 'defaultUicontrolBackgroundColor'))
118     set(hObject, 'BackgroundColor', 'white');
119 end
120
121
122 % --- Executes on button press in pushbutton1.
123 function pushbutton1_Callback(hObject, eventdata, handles)
124 % hObject    handle to pushbutton1 (see GCBO)
125 % eventdata reserved - to be defined in a future version of MATLAB
126 % handles    structure with handles and user data (see GUIDATA)
127
```



+

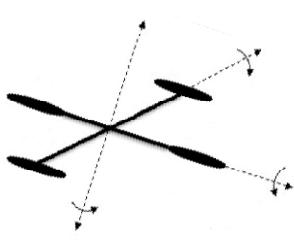


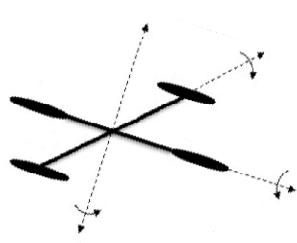
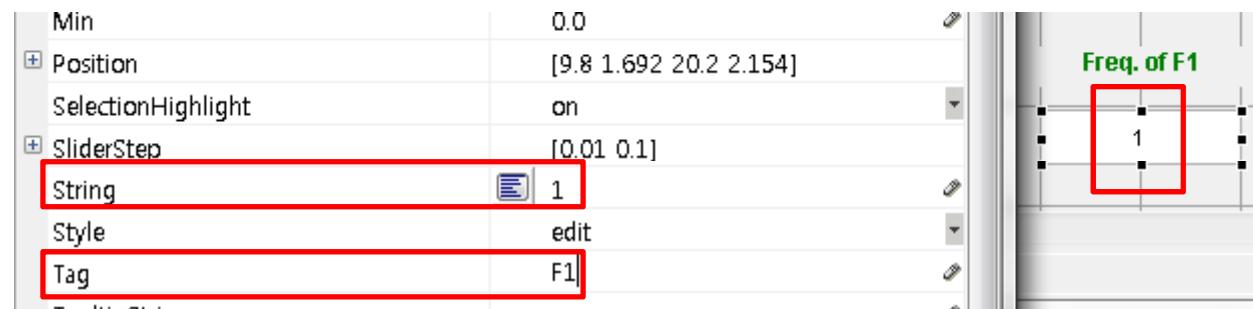
+

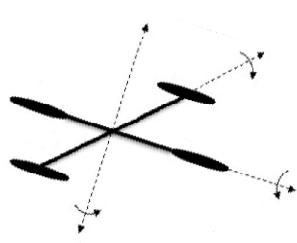
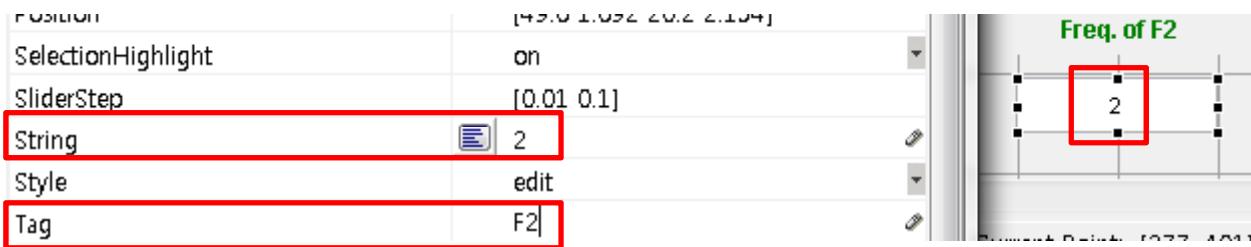


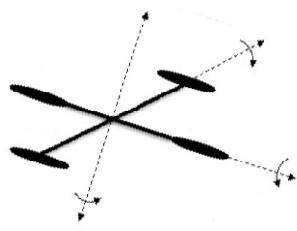
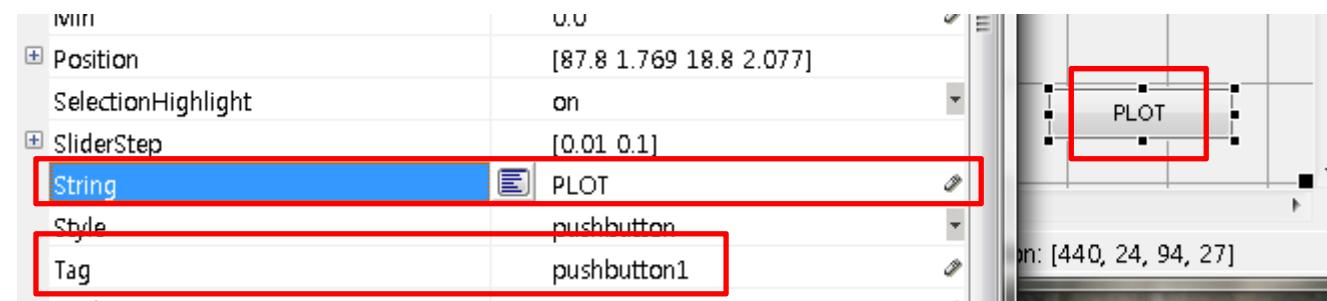
+

SliderStep	[0.01 0.1]
String	Edit Text
Style	edit
Tag	edit1
TooltipString	

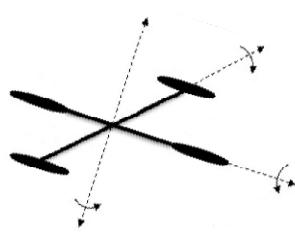








```
function pushbutton1_Callback(hObject, eventdata, handles)  
  
f1 = str2double(get(handles.F1,'String'));  
f2 = str2double(get(handles.F2,'String'));  
  
t = 0:0.01:2;  
  
y = sin(2*pi*f1*t) + sin(2*pi*f2*t);  
  
plot(handles.axes1, t, y)  
grid on
```



+

