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Subject: auto-managed compound widgets  
Posted by [David R](#) on Fri, 01 Jun 2007 20:09:09 GMT  
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I was attempting to make a simple file selection compound widget that works with auto\_wid\_mng, but could not find any documentation on what functions need to be added for this to work. I could also not find any compound widget source online that accomplished this either. Is it possible for user widgets to be auto-managed? As a reference to what I am attempting, below is my code so far. It is supposed to appear like widget\_outf, except with more customizable prompts.

;Test procedure:  
pro widgettest  
base = widget\_auto\_base(title = 'base1')  
widgets = widget\_base(base, row=2)  
templabel=  
widget\_string(widgets, prompt='test', uvalue='templabel', defau lt='test',/  
auto) ;to make automanagement work  
wid = widget\_fsel(widgets, label='Header file: ', prompt='Input  
file', uvalue='fsel', xsize=50)  
result=auto\_wid\_mng(base)  
help, result,/struct ;view result  
end  
  
pro widget\_fsel\_event, ev  
;base = WIDGET\_INFO(ev.HANDLER,/parent)  
WIDGET\_CONTROL, ev.HANDLER, GET\_UVALUE=state  
IF (ev.ID EQ state.btn) THEN BEGIN  
sel = dialog\_pickfile(title =  
state.prompt, directory=state.directory)  
if (strcmp(sel,"") eq 0) then begin  
sel = STRJOIN(STRSPLIT(sel,'\\', /EXTRACT), '/')  
if (state.directory) AND (strcmp(strmid(sel,strlen(sel)-1,1), '/')  
eq 0) then sel = sel+'/'  
widget\_control, state.field, set\_value=sel  
end  
end  
end  
;get value function  
function widget\_fsel\_get\_value, id  
handlebase = widget\_info(id,/child)  
widget\_control, handlebase, get\_uvalue=state  
widget\_control, state.field, get\_value=val  
return, val ;return text in field widget  
end  
  
function widget\_fsel, parent, frame=frame, uvalue=uvalue, label=label,\$

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default=default, prompt=prompt,xsize=xsize, directory=directory
;parent = base widget for this compound widget to be located in
;label = text label display
;prompt = prompt when selecting files
;xsize = size of textbox containing file path
;default= default answer
;
;set defaults if empty
if (n_params() eq 0) then parent = widget_base()
if (n_elements(label)eq 0) then label = ""
if (n_elements(default)eq 0) then default = ""
if (n_elements(prompt)eq 0) then prompt = 'Select file:'
if (n_elements(directory)eq 0) then directory=0
;
base = widget_base(parent,frame=frame)
handlebase = widget_base(base,row=1)
textlabel = widget_label(handlebase,value=label,units=0)
btn = widget_button(handlebase, value = 'Choose',xsize=50)
field = widget_text(handlebase, value = default,xsize=xsize,/editable)
state = {prompt:prompt, btn:btn, field:field, directory:directory}
widget_control, handlebase, SET_UVALUE=state, /REALIZE
widget_control, base, set_uvalue = uvalue, func_get_value =
'widget_fsel_get_value'
xmanager, 'widget_fsel',handlebase, /no_block

return, base
end

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