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Subject: Re: widget\_programming

Posted by [rivers](#) on Fri, 04 Jun 1999 07:00:00 GMT

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In article <MPG.11beddbd77f6ed409897cb@news.frii.com>, davidf@dfanning.com

> (David Fanning) writes:

>

> Perhaps this article will generate some other ideas  
> we can use. I'll collect them and post them on my  
> web page. My main problem is that I don't have all these  
> machines, so when a problem develops I solve it and  
> forget to write the solution down. :-(

>

> (I'm also vaguely remembering a Mark Rivers function  
> that helped get nice fonts in a machine-independent  
> fashion. Mark, are you reading. Haven't heard from  
> you in a while.)

I'm still here!

Here is the function I use to get useable and reasonably similar fonts on Motif,  
(e.g. Unix and VMS) and Windows NT machines. You use the function as in the  
following examples:

font = get\_font\_name(/helvetica, /large, /bold)

font = get\_font\_name(/courier, size=3)

Sorry I haven't even written a standard documentation header!

Using this function I am able to write widget applications which look very  
similar on Windows and Motif. I have used it a lot on Sun, Digital Unix, VMS,  
and Windows NT, less so on SGI, HP and Linux.

\*\*\*\*\*

function get\_font\_name, \$  
 helvetica=helvetica, times=times, courier=courier, \$  
 tiny=tiny, small=small, medium=medium, large=large, huge=huge, \$  
 size=size, \$  
 bold=bold, italic=italic, \$  
 dpi75=dpi75, dpi100=dpi100

; Returns the name of the font with the specified characteristics

; This routine should know more about the Mac. Right now it only works well on  
; Windows and Motif

if (!version.os\_family eq 'Windows') then begin  
 font = "  
 if keyword\_set(helvetica) then font = font + 'Helvetica' else \$

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if keyword_set(times)    then font = font + 'Times' else $
if keyword_set(courier)  then font = font + 'Courier New' else $
font = font + 'MS San Serif'

if keyword_set(bold) then font = font + '*Bold'
if keyword_set(italic) then font = font + '*Italic'
if keyword_set(tiny)   then size=0
if keyword_set(small)  then size=1
if keyword_set(medium) then size=2
if keyword_set(large)  then size=3
if keyword_set(huge)   then size=4
if (n_elements(size) eq 0) then size=2
font_size_strings = ['12', '14', '16', '18', '20']
size = (size > 0) < (n_elements(font_size_strings)-1)
font = font + '*' + font_size_strings(size)
return, font
endif else if (!version.os_family eq 'Mac') then begin
  font='Helvetica'
  return, font
endif else begin ; Assume Motif
  font = '-adobe-'
  if keyword_set(helvetica) then font = font + 'helvetica-' else $
  if keyword_set(times)    then font = font + 'times-' else $
  if keyword_set(courier)  then font = font + 'courier-' else $
    font = font + 'helvetica-'

  if keyword_set(bold) then font = $
    font + 'bold-' else font = font + 'medium-'
  if keyword_set(italic) then font = font + 'o-' else font = font + 'r-'
  font = font + 'normal--*-'

  if keyword_set(tiny)   then size=0
  if keyword_set(small)  then size=1
  if keyword_set(medium) then size=2
  if keyword_set(large)  then size=3
  if keyword_set(huge)   then size=4
  if (n_elements(size) eq 0) then size=2
  font_size_strings = ['80-', '100-', '120-', '140-', '180-']
  size = (size > 0) < (n_elements(font_size_strings)-1)
  font = font + font_size_strings(size)

  if keyword_set(dpi100) then font = font + '100-100-' else $
  if keyword_set(dpi75) then font = font + '75-75-' else $
  font = font + '*-*'
  font = font + '*-*-iso8859-1'

return, font
endelse

```

end

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Mark Rivers (773) 702-2279 (office)  
CARS (773) 702-9951 (secretary)  
Univ. of Chicago (773) 702-5454 (FAX)  
5640 S. Ellis Ave. (708) 922-0499 (home)  
Chicago, IL 60637 rivers@cars.uchicago.edu (e-mail)

or:

Argonne National Laboratory (630) 252-0422 (office)  
Building 434A (630) 252-0405 (lab)  
9700 South Cass Avenue (630) 252-1713 (beamline)  
Argonne, IL 60439 (630) 252-0443 (FAX)

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