How to use font-based icons in isCOBOL GUI programs

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When your GUI application is going to need a large variety of different bitmaps for any kind of GUI control that accepts a bitmap for its icon, you can use font-based bitmaps instead of trying to get different images for each control. Bitmap fonts provide a comprehensive set of glyphs, or icons.

In this article we will use one of the most popular bitmap fonts: **FontAwesome** . You can download it from: www.fontawesome.com .

However, any bitmap font can be used (Material Design Font, dafont.com, etc)

The .otf file that you download can be located in any folder that you choose. You create a named font with W\$CREATEFONT that points to the path (full or relative) of the font.

Then you load a font with W\$FONT based on that named font.

Now, in order to use some of the icons from that font for your program, you need to create a strip of selected icons.

The FontAwesome font uses a hexadecimal code of 4 characters to refer to their icons.

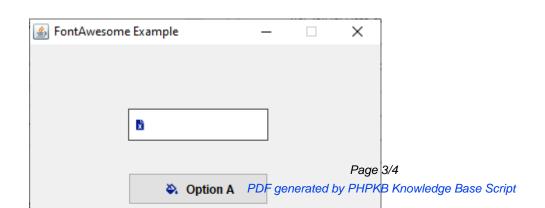
Here';s a link to all of the available icons and their hex codes: https://fontawesome.com/v5/cheatsheet
Each of those hex codes need to be converted to a decimal value and then combined in a national variable as in this example:

Once you have the list of decimal values in a national string, you can create the bitmap strip in memory, using the W\$BITMAP routine:

Now, since the h-font-icon handle of font contains the strip of icons 20 pixels each, you can assign icons from it to a GUI control on the screen section:

```
03 ef-1
   entry-field
                               5
   line
   col
                               15
   size
                               20 cells
   lines
                              2 cells
  bitmap-handle
                               h-font-icon
  bitmap-width
                               2.0
  bitmap-number
03 pb-1
   push-button
   line
                               9
   col
                               15
   lines
                              2 cells
   size
                              20 cells
  bitmap-handle
                              h-font-icon
  bitmap-width
                               20
   title-position
   title
                               "Option A"
   bitmap-number
```

This code creates part of a simple example screen that looks like this:



Attached is a zip file with	າ a full sample of u	ising the FontAwesome	bitmap font. Aft	ter downloading it,	you can
compile:					

iscc fontawesome.cbl

and run:

iscrun FONTAWESOME