Subject: Convert string to image matrix (like xyouts)
Posted by heinz1357 on Mon, 08 May 2017 18:31:18 GMT

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Is there a method to generate an image from a string, i.e. a binary image that contains the string as printed text?

I'm currently generating a movie from several image frames (using IDLffVideoWrite), and would like to put additional information into the frames as text (such as dates).

Subject: Re: Convert string to image matrix (like xyouts)
Posted by Lajos Foldy on Mon, 08 May 2017 19:42:47 GMT

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On Monday, May 8, 2017 at 8:31:20 PM UTC+2, hein...@googlemail.com wrote:
> Is there a method to generate an image from a string, i.e. a binary image that contains the string as printed text?
>
> I'm currently generating a movie from several image frames (using IDLffVideoWrite), and would like to put additional information into the frames as text (such as dates).

You can use xyouts with the Z device and read back the image with tvrd().

regards,
Lajos

Subject: Re: Convert string to image matrix (like xyouts)
Posted by heinz1357 on Tue, 09 May 2017 09:41:11 GMT

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Am Montag, 8. Mai 2017 21:42:51 UTC+2 schrieb fawltyl...@gmail.com:
> On Monday, May 8, 2017 at 8:31:20 PM UTC+2, hein...@googlemail.com wrote:
>> Is there a method to generate an image from a string, i.e. a binary image that contains the string as printed text?
>>
>> I'm currently generating a movie from several image frames (using IDLffVideoWrite), and would like to put additional information into the frames as text (such as dates).
>
> You can use xyouts with the Z device and read back the image with tvrd().
>
> regards,
> Lajos

Ok, thanks.

In case anyone wants to know, this is the solution:

```
result_arr = MAKE_ARRAY(image_size[0], image_size[1], /BYTE, VALUE=0)
old_device = !D.Name
SET_PLOT, 'Z', /COPY
DEVICE, SET_RESOLUTION=image_size
ERASE
TV, result_arr
xyouts, location[0], location[1], input_text, CHARSIZE=font_size, CHARTHICK=fontsize/2
result_arr=TVRD()
SET_PLOT, old_device, /COPY
return, result_arr
```

Subject: Re: Convert string to image matrix (like xyouts)
Posted by lecacheux.alain on Tue, 09 May 2017 11:52:42 GMT
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Le mardi 9 mai 2017 11:41:12 UTC+2, hein...@googlemail.com a écrit :
> Am Montag, 8. Mai 2017 21:42:51 UTC+2 schrieb fawltyl...@gmail.com:
>> On Monday, May 8, 2017 at 8:31:20 PM UTC+2, hein...@googlemail.com wrote:
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> xyouts, location[0], location[1], input_text, CHARSIZE=font_size, CHARTHICK=fontsize/2
> result_arr=TVRD()
> SET_PLOT, old_device, /COPY
> return, result_arr

With Graphics functions, you could simply do:

```
> im = IMAGE(bytarr(image_size))
> t = TEXT(TARGET=im, ...)
> im.GETDATA, result_arr
```

alx.