Subject: Re: Beyond 7-bit ASCII
Posted by Mark Hadfield on Sun, 29 Aug 2004 22:30:59 GMT
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Michael Wallace wrote:

> Is it possible to somehow reference characters in the 128 - 255 of a
> font table? I'm looking for an object graphics way to do this, not
> direct graphics if that matters.
>
> Also, is it possible to switch fonts with in an IDLgrText object? It
> appears that one and only font can apply to a text object at a time. I'd
> like to have a string that's normal English except for a couple Greek
> symbols in the middle. How can I do this? TIA,

The following doesn't exactly answer either of your questions, but I suggest you set the ENABLE_FORMATTING property on your IDLgrText object, then read the documentation section entitled "Fonts/Embedded Formatting Codes"

--
Mark Hadfield "Ka puwaha te tai nei, Hoea tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)

Subject: Re: Beyond 7-bit ASCII
Posted by David Fanning on Mon, 30 Aug 2004 14:16:01 GMT
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Michael Wallace writes:

> Is it possible to somehow reference characters in the 128 - 255 of a
> font table? I'm looking for an object graphics way to do this, not
> direct graphics if that matters.

Typically, you access these character glyphs via their Unicode value. For example, you are talking about tomorrow:

```
  XYOUTS, 0.5, 0,5, Align=0.5, "I will do it ma!Z('F1'x)ana", $
Charsize=3, Normal=1
```

> Also, is it possible to switch fonts with in an IDLgrText object? It
> appears that one and only font can apply to a text object at a time.
> I'd like to have a string that's normal English except for a couple
> Greek symbols in the middle. How can I do this?

I don't know if this is possible. All of my experiments
have turned out negatively. :-(

Surely, there must be *some* way to do this! Karl!?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Beyond 7-bit ASCII
Posted by Karl Schultz on Mon, 30 Aug 2004 16:25:07 GMT
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"Michael Wallace" <mwallace.no.spam@no.spam.swri.edu.invalid> wrote in
message news:10ivav36982atbd@corp.supernews.com...
> Is it possible to somehow reference characters in the 128 - 255 of a
> font table? I'm looking for an object graphics way to do this, not
> direct graphics if that matters.
>
> Also, is it possible to switch fonts with in an IDLgrText object? It
> appears that one and only font can apply to a text object at a time.
> I'd like to have a string that's normal English except for a couple
> Greek symbols in the middle. How can I do this? TIA,
>

This example combines the two using object graphics:

IDL> oText = OBJ_NEW('IDLgrText', "I will !6do!X it ma!Z('F1'x)ana",
/ENABLE_FORMATTING)
IDL> xobjview, oText

!6 switches to complex roman and !X gets you back to the entry font.

Karl

Subject: Re: Beyond 7-bit ASCII
Posted by David Fanning on Mon, 30 Aug 2004 16:42:31 GMT
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Karl Schultz writes:

> This example combines the two using object graphics:
>
> IDL> oText = OBJ_NEW('IDLgrText', "I will !6do!X it ma!Z('F1'x)ana",
> /ENABLE_FORMATTING)
> IDL> xobjview, oText
>
> !6 switches to complex roman and !X gets you back to the entry font.

Yes, I did get something like this working. What I couldn't
figure out how to do (and I think this is what the original
poster wanted) was how to get Greek symbols into his code.
For example, I tried this:

```
  text = Obj_New('IDLgrText', ENABLE_FORMATTING=1, $
     "(!4!z(88)!X) Greek Symbol Omega", color=[0,0,128])
  XObjView, text
```

Maybe I don't know how to read the octal table. But I see
Font 4, the omega sign is 12x plus 10 octal is:

```
  IDL> Print, "120
       88
```

Why doesn't this work?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Subject: Re: Beyond 7-bit ASCII
Posted by Karl Schultz on Mon, 30 Aug 2004 17:40:29 GMT
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"David Fanning" <davidf@dfanning.com> wrote in message
news:MPG.1b9d06e4f09bcd5b98986a@news.frii.com...
> Karl Schultz writes:
>
>> This example combines the two using object graphics:
>>
>> IDL> oText = OBJ_NEW('IDLgrText', "I will !6do!X it ma!Z('F1'x)ana",

>> /ENABLE_FORMATTING)
>> IDL> xobjview, oText
>>
>> !6 switches to complex roman and !X gets you back to the entry font.
>
> Yes, I did get something like this working. What I couldn't
> figure out how to do (and I think this is what the original
> poster wanted) was how to get Greek symbols into his code.
> For example, I tried this:
>
> text = Obj_New('IDLgrText', ENABLE_FORMATTING=1, $
> "(!4!z(88)!X) Greek Symbol Omega", color=[0,0,128])
> XObjView, text
>
> Maybe I don't know how to read the octal table. But I see
> Font 4, the omega sign is 12x plus 10 octal is:
>
> IDL> Print, "120
> 88
>
> Why doesn't this work?
>

I think that you are looking at the vector font encodings and trying to
apply them to TrueType fonts.

So, you can go one way or the other:

TrueType:
```
text = Obj_New('IDLgrText', ENABLE_FORMATTING=1, $
  "(!10W!X) Greek Symbol Omega", color=[0,0,128])
XObjView, text
```

Hershey vector fonts:

```
oFont = OBJ_NEW('IDLgrFont', 'Hershey')
xobjview, obj_new('idlgrtext', '(!4!Z(58)!X) Greek Symbol Omega',
FONT=oFont, /ENABLE_FORMATTING)
```

Karl

Subject: Re: Beyond 7-bit ASCII
Posted by David Fanning on Mon, 30 Aug 2004 17:47:17 GMT
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Karl Schultz writes:

> I think that you are looking at the vector font encodings and trying to
> apply them to TrueType fonts.
>
> So, you can go one way or the other:
>
> TrueType:
>   text = Obj_New('IDLgrText', ENABLE_FORMATTING=1, $
>   "(!10W!X) Greek Symbol Omega", color=[0,0,128])
>   XObjView, text
>
>
> Hershey vector fonts:
>
> oFont = OBJ_NEW('IDLgrFont', 'Hershey')
> xobjview, obj_new('idlgrtext', '(!4!Z(58)!X) Greek Symbol Omega',
> FONT=oFont, /ENABLE_FORMATTING)

Oh, right. Thanks, Karl. I'll write myself a little note. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
