Subject: Formatting strings to coordinates
Posted by Simon de Vet on Fri, 19 May 2000 07:00:00 GMT

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The data analysis adventure continues... I have read in the data, and am now working on the various plots.

I have a string array, taken from the text file, of coordinates. However, they are in the form "43.92�S", and "176.50�W".

I would like to be able to take this array of strings and convert it to a numerical array or real latitudes and longitudes, from -90 to 90 and 0 to 360 so that they can eventually be plotted onto a globe.

I've figured out how to use strings to generate numerical values (ie: 'Jan' -> 1, 'Feb' -> 2, etc..), but not how to handle parts of strings to modify the other parts.

Any suggestions? This group has been a major help so far!

Thanks,

Simon

Subject: Re: Formatting string
Posted by mmeron on Fri, 22 Dec 2006 08:39:24 GMT
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In article <1166775977.998673.214070@42g2000cwt.googlegroups.com>, "Erik" <janssen.e@gmail.com> writes:

> Hi everyone,

>

- > I have a question about formatting a string in IDL. I have a var-string
- > which contains an integer value (like this '12' or '312').
- > Unfortunately I need a string with four characters. If the integer
- > value isn't four characters long, I want some 0's in front of it (like
- > this; '0012' or '0312'). Is there any simple way of doing this, without
- > parsing the string?

Sure. Assuming your var_string is called var, you get the padded one by

newvar = strmid('0000'+var,3,4,/reverse)

var can be an array in this expression.

Mati Meron | "When you argue with a fool,

```
Subject: Re: Formatting string
Posted by Erik[1] on Fri, 22 Dec 2006 08:44:26 GMT

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mme...@cars3.uchicago.edu wrote:

> In article <1166775977.998673.214070@42g2000cwt.googlegroups.com>, "Erik"

<janssen.e@gmail.com> writes:

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> Mati Meron | "When you argue with a fool,

> meron@cars.uchicago.edu | chances are he is doing just the same"

Thanks! It works! Never knew that strmid has such capabilitys. I only thought it was used for cutting strings.

Have a nice Christmas:P

Subject: Re: Formatting string
Posted by mmeron on Fri, 22 Dec 2006 08:56:31 GMT
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In article <1166777066.340722.90420@a3g2000cwd.googlegroups.com>, "Erik" <janssen.e@gmail.com> writes: > mme...@cars3.uchicago.edu wrote: >> In article <1166775977.998673.214070@42g2000cwt.googlegroups.com>, "Erik" <janssen.e@gmail.com> writes: >>> Hi everyone, >>>

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>>> this; '0012' or '0312'). Is there any simple way of doing this, without
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>> Sure. Assuming your var_string is called var, you get the padded one
>>
>> newvar = strmid('0000'+var,3,4,/reverse)
>> var can be an array in this expression.
>>
>> Mati Meron
                             | "When you argue with a fool,
                                    chances are he is doing just the same"
>> meron@cars.uchicago.edu
>
> Thanks! It works! Never knew that strmid has such capabilitys. I only
> thought it was used for cutting strings.
Well, in principle yes, but by combining padding and cutting you can
do quite a lot.
> Have a nice Christmas:P
Thanks, you too.
                         | "When you argue with a fool,
Mati Meron
                                 | chances are he is doing just the same"
meron@cars.uchicago.edu
```

Subject: Re: Formatting string
Posted by Wox on Fri, 22 Dec 2006 09:32:50 GMT
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Never looked at it that way :-). I always do padding like this:

IDL> var='312'
IDL> print,string(var,format='(I04)')
0312

On Fri, 22 Dec 2006 08:39:24 GMT, mmeron@cars3.uchicago.edu wrote:

> newvar = strmid('0000'+var,3,4,/reverse)

Subject: Re: Formatting string Posted by mmeron on Fri, 22 Dec 2006 09:58:20 GMT

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In article <cc9no2dh8nn363kh6jnac5roul71gqg835@4ax.com>, Wox <nomail@hotmail.com> writes:

> Never looked at it that way :-). I always do padding like this:

> IDL> var='312'

> IDL> print,string(var,format='(I04)')

> 0312

> On Fri, 22 Dec 2006 08:39:24 GMT, mmeron@cars3.uchicago.edu wrote:

> newvar = strmid('0000'+var,3,4,/reverse)

> There is always more than one way to skin a cat:-)

Mati Meron | "When you argue with a fool, meron@cars.uchicago.edu | chances are he is doing just the same"

Subject: Re: Formatting string
Posted by David Fanning on Fri, 22 Dec 2006 14:43:27 GMT
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Mati Meron writes:

> There is always more than one way to skin a cat:-)

Indeed. I always do this like this:

```
IDL> var = 312
IDL> Print, String(var, Format='(I4.4)')
    0312
```

Cheers,

David

--

David Fanning, Ph.D. Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")