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Subject: Coyote Library Updates

Posted by [David Fanning](#) on Fri, 09 Nov 2012 17:15:00 GMT

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Folks,

A couple of changes to the Coyote Library that you may want to be aware of.

The Number\_Formatter program has been retired and is replaced by the cgNumber\_Formatter program. This program has been updated to handle NaN and Inf values properly, and it now works MUCH better for numbers between 0.0001 and 1.0. In this case, the number of decimals specified with the DECIMAL keyword is taken to mean the number of significant digits that should be displayed:

```
IDL> a = [0.0123456, 0.000123456, !Values.F_NAN]
IDL> Print, cgNumber_Formatter(a, Decimals=3)
0.0123 0.000123 NaN
```

Also, the cgCheckForSymbols and the cgSymbol programs have been updated to handle superscripts and subscripts. The symbols \up and \down implement the !U and !D format codes, and reduce the size of the superscript or subscript by 0.62 percent. The symbols \exp and \sub implement !E and !I format codes and reduce the size of the superscript or subscript by 0.44 percent.

```
IDL> cgPlot, cgDemoData(1), $
      XTitle='Distance ($\angstrom$\up2$)', $
      YTitle='H$\subSubscript$ and B$\expSuperscript$', $
      Charsize=2.0
```

Naturally, these work in PostScript files as well. :-)

You can find these changes and others in the latest Coyote Library:

[http://www.idlcoyote.com/programs/zip\\_files/coyoteprograms.zip](http://www.idlcoyote.com/programs/zip_files/coyoteprograms.zip)

Or, here:

<http://idl-coyote.googlecode.com/>

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

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