IDL

Written by Stern of Colorado uni, established Research systems Lmt

Interpreted language - can't have loops and stuff. it's a single line program
On windows I'm using GDL

- variables are declared on the fly
- commands usually have a comma next to it `print,`
- the calculations are usually in integer outputs
- to get decimal(float) use '.' after command `print, 19/6.`
- Comments by `;` example - `;this is a command`
- integer calculations only in 4byte strings.. so use `l` after calculation to get proper result
- print same number over and over `x=findgen(1000)`
- and plot with `y=x` and `plot, x,y`
- change color of plot with `col=rgb value`
- and plot over another plot with `oplot x,y`
- colored overplot `oplot x,x*x,col=255`
- and set range with `xrange=[]` and `yrange=[]`
- and make the stepsize smaller with `x=(findgen(2000)-1000)/500` where it gives you 2000 points from -1000 with stepsize by 1/500
- plot, randomu(seed,1000)
- plot, randomu(seed,1000)pysm=3
  u - uniform distribution
  n = normal distribution

System variables

like `!path`, `!pi` and so on..

and you can set these in the profile path
adding libraries through !GDL_PATH