The IDL Workbench, or...the FrankenDE: Create Your Own Eclipse-Based IDE

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• Demo
• Architecture
• Issues
• Community
• The Future
IDL 7.1

Powering Visualization and Analysis
IDL> print, 2+2

```idl
pro demo

file = FILEPATH('surface.dat', $ 
SUBDIRECTORY = ['examples', 'data'])
data = READ_BINARY(file, DATA_DIMS = [350, 450], $ 
DATA_TYPE = 2, ENDIAN = 'little')
ISURFACE, data, TITLE = 'Maroon Bells Elevation', $ 
COLOR = [255, 128, 0]

end
```

IDL> print, 2+2

file = FILEPATH('surface.dat', $)
data = IDL_FILEDATA(FILEPATH('surface.dat', $))(0)
data = DATA(data)
ISURFACE(data, $COLOR(R=255, G=0, B=0))
end
Unwanted menu & toolbar items...
Command line is “live” - debugger is always active
Help System - Dynamic, Standalone or Infocenter...

Creating Line Plots with PLOT

Each call to PLOT establishes the plot window (the rectangular area enclosed by the axis), the plot region (the box enclosing the plot window and its annotation), the axis types (linear or logarithmic), and the scaling. Data variables are then plotted within the plot window.

First, plot a simple graph using a sine function. Use the FINDGEN function to create a 100-element vector of floating-point integers, and multiply that vector by $2\pi/100$. Then use the PLOT procedure to create an X-Y plot.

1. Use the FINDGEN function to create a 100-element vector of floating-point integers, and multiply that vector by $2\pi/100$. The vector $X$ will contain your data values.

   $X = 2*\pi/100 \times \text{FINDGEN}(100)$

How to load only a subset of doc plugins?

FrankenDE - Create Your Own Eclipse-Based IDE - chris@ittvis.com
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## Community

18 bugs found.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sev</th>
<th>Pri</th>
<th>OS</th>
<th>Assignee</th>
<th>Status</th>
<th>Resolution</th>
<th>Summary</th>
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<td>FIXME</td>
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<td>DUPL</td>
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<td>[ViewMgmt] Standalone View does not resize when window is resized</td>
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<td>VERI</td>
<td>FIXME</td>
<td>[MinMax] Unhandled event loop exception when not using Max</td>
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<td>Wind</td>
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<td>NEW</td>
<td></td>
<td>[CommonNavigator] commonWizard with no page</td>
</tr>
</tbody>
</table>
Future Directions - Interactive Visualizations

IDL> avhrr = Smooth(avhrr)
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