Introduction

ipy_table is a supporting module for IP[y]:Notebook which makes it easy to create richly formatted data tables.

Example

To create a table in interactive mode, import ipy_table and call make_table() on an array.

Notes:

- ipy table can accept either a "native" array (a list of equal-length lists) or a numpy .ndarray.
- Arrays passed to ipy_table typically contain integers, floats or strings, but in general they can contain other object types and ipy_table will render the result of calling str() on those objects.

Out[2]:

Planet	Mass (kg)	Diameter (km)
Mercury	33021999999999996854272.0000	4879
Venus	4896000000000000201326592.0000	12104
Earth	597200000000000327155712.0000	12735
Mars	64191000000000065536000.0000	6772

The make_table() interface is interactive, so after calling make_table() we can call style formatting commands to modify the current table format. Here we'll apply the "basic" table theme.

Note: Use "basic_left" for tables with row headers. Use "basic_both" for tables with row and coulmn headers.

```
In [3]: apply_theme('basic')
```

Out[3]:

Planet	Mass (kg)	Diameter (km)
Mercury	33021999999999996854272.0000	4879
Venus	4896000000000000201326592.0000	12104
Earth	597200000000000327155712.0000	12735
Mars	641910000000000065536000.0000	6772

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The Mass values are being fully expanded. By default ipy_table formats floating point numbers using the Python formatting string "0.4f". We can override that by setting the float_format parameter.

In [4]: set_global_style(float_format='%0.3E')

Out[4]:

Planet	Mass (kg)	Diameter (km)
Mercury	3.302E+23	4879
Venus	4.896E+24	12104
Earth	5.972E+24	12735
Mars	6.419E+23	6772

All cell formatting is dynamic. Custom formatting can be applied by calling set_<global, row, column, cell>_style().

In [5]: set_row_style(3,color='yellow')

Out[5]:

Planet	Mass (kg)	Diameter (km)
Mercury	3.302E+23	4879
Venus	4.896E+24	12104
Earth	5.972E+24	12735
Mars	6.419E+23	6772

For documentation on all ipy_table commands, see the ipy_table reference notebook (ipy_table-Reference.ipynb)

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