Format Results with displaytable

A time consuming aspect of using Matlab for routine homework solution is formatting tablular results for display. The function displaytable.m saves time by allowing you to easily format and label numerical results for display, or for export to a spreadsheet, a document, or html.

displaytable is used in many of the following Matlab scripts.

Contents

- Downloading and Installing
- Examples

Downloading and Installing

displaytable.m can be viewed and downloaded from https://gist.github.com/jckantor/8436117. Move to your Matlab directory and it is ready to use.

Examples

1. Display a simple table

```
A = magic(4);
displaytable(A);
```

```
16 2 3 13
5 11 10 8
9 7 6 12
4 14 15 1
```

2. Annotate a simple result

```
displaytable(pi,'Pi = ');
```

```
Pi = 3.1416
```

3. Display a table with row and column headings

```
displaytable(A,'Row','Col')
```

```
Col(1) Col(2) Col(3) Col(4)
Row(1) 16 2 3 13
Row(2) 5 11 10 8
```

```
Row(3) 9 7 6 12
Row(4) 4 14 15 1
```

4. Create a table of molecular weights

```
s = {'CH4','C2H6','C3H8'}';
mw = [16.04; 30.07; 44.1];
displaytable(mw,s,'Mol. Wt.');

Mol. Wt.
CH4 16.04
```

5. Format a stream table.

30.07

44.1

C2H6

C3H8

```
strms = {'Feed','Rctr. Eff.','Recycle','Purge','Product'};
comps = {'Ethylene','O2','N2','EO'};
flows = 1000*rand(4,5);
displaytable(flows,comps,strms);
```

	Feed	Rctr. Eff.	Recycle	Purge	Product
Ethylene	183.91	902.72	337.72	780.25	96.455
02	239.95	944.79	900.05	389.74	131.97
N2	417.27	490.86	369.25	241.69	942.05
EO	49.654	489.25	111.2	403.91	956.13

6. Format a table of molecular weights to include in a web page.

```
displaytable(mw,s,'Mol. Wt.','','html');
```

```
        CH4

        CH4

         16.04

        <
```

```
     C3H8

     <</td>

     </t
```

Published with MATLAB® R2014a