Format Matlab 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.

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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
C2H6 30.07
C3H8 44.1
```

5. Format a stream table.

```
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	575.21	821.19	649.12	547.01	686.78
02	59.78	15.403	731.72	296.32	183.51
N2	234.78	43.024	647.75	744.69	368.48
EO	353.16	168.99	450.92	188.96	625.62

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

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

```
        Mol. Wt.

        CH4

         16.04

        C2H6
        <</td>

        C2H6
        <</td>
        <</td>
        <</td>

        <</td>

         30.07

        <</tr>
```

```
     C3H8

     <</td>

     </t
```

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