

Named Tables with Random Data

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Generate A Table with M Variables

Generate a numeric table with random varlues and a string column

```
% Numeric Matrix
it_num_cols = 4;
it_num_rows = 5;
mt_data = rand([it_num_rows, it_num_cols]);

% Generate Table
tb_test = array2table(mt_data);

% Generate Row and Column Names
cl_col_names = strcat('col_', string((1:it_num_cols)));
cl_row_names = strcat('row_', string((1:it_num_rows)));

tb_test.Properties.VariableNames = matlab.lang.makeValidName(cl_col_names);
tb_test.Properties.RowNames = matlab.lang.makeValidName(cl_row_names);

% Generate two string variable
rng(456);
cl_st_var1 = strcat('data=', string(rand([it_num_rows,1])));
cl_st_var2 = strcat('data=', string(rand([it_num_rows,1])));
tb_test = addvars(tb_test, cl_st_var1, cl_st_var2);

% Display Table
disp(tb_test);
```

	col_1	col_2	col_3	col_4	cl_st_var1	cl_st_var2
row_1	0.43568	0.4688	0.18092	0.14604	"data=0.24876"	"data=0.60411"
row_2	0.38527	0.57	0.11816	0.54272	"data=0.16307"	"data=0.8857"
row_3	0.57571	0.6457	0.24273	0.8571	"data=0.78364"	"data=0.75912"
row_4	0.14609	0.72334	0.0081834	0.20021	"data=0.80852"	"data=0.18111"
row_5	0.68659	0.68067	0.36007	0.13463	"data=0.62563"	"data=0.15017"