

Jaccard and Sokal-Michener similarity matrices

Create input data

```
rowNames = string('A':'C');  
% Note: colNames is a string array containing column names  
colNames = ["bread" "pasta" "water" "beer" "wine" "meat" ...  
            "fish" "coldcuts" "milk" "coffee" "oil" "butter"];  
X = [1 1 0 0 1 0 1 0 0 0 1 1  
      1 1 1 1 0 1 0 0 1 1 0 1  
      1 0 1 0 0 1 0 0 1 0 1 0];  
Xtable = array2table(X, "RowNames", rowNames, "VariableNames", colNames);  
disp('Input table')
```

Input table

```
disp(Xtable)
```

	bread	pasta	water	beer	wine	meat	fish	coldcuts	milk	coffee	oil	butter
A	1	1	0	0	1	0	1	0	0	0	1	0
B	1	1	1	1	0	1	0	0	1	1	0	0
C	1	0	1	0	0	1	0	0	1	0	1	0

Jac = Jaccard similarity index matrix

```
Jac = squareform(1 - pdist(X, 'jaccard'));  
Jactable = array2table(Jac, "RowNames", rowNames, "VariableNames",  
rowNames);  
disp('Jaccard similarity index matrix')
```

Jaccard similarity index matrix