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function [ x, y ] = matxy( dim, centreij )

% MATXY  Make x-y coordinate matrices
%
% [ x, y ] = matxy( dim, centreij )

% 18-Oct-1999 -- created (RFM)

% set default arguments
defarg('centreij',floor(dim/2)+1);

% check dim argument
if numel(dim)==1, dim = [ dim dim ]; end

% make coordinate matrices
xv = (1:dim(2)) - centreij(2);
yv = (1:dim(1)) - centreij(1);
[x,y] = meshgrid(xv,-yv);

return
```