

```

function ha = tight_subplot(Nh, Nw, gap, marg_h, marg_w)

%tight_subplot creates "subplot" axes with adjustable gaps and margins

%
%ha = tight_subplot(Nh, Nw, gap, marg_h, marg_w(


%in: Nh    number of axes in height (vertical direction)
%Nw    number of axes in width (horizontal direction)
%gap   gaps between the axes in normalized units (0...1)
%or [gap_h gap_w] for different gaps in height and width

%marg_h  margins in height in normalized units (0...1)
%or [lower upper] for different lower and upper margins

%marg_w  margins in width in normalized units (0...1)
%or [left right] for different left and right margins

%
%out: ha    array of handles of the axes objects
%starting from upper left corner, going row-wise as in
%going row-wise as in

%
%Example: ha = tight_subplot(3,2,[.01 .03],[.1 .01],[.01 .01([

%for ii = 1:6; axes(ha(ii)); plot(randn(10,ii)); end
%set(ha(1:4),'XTickLabel',''); set(ha,'YTickLabel','','

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if nargin<3; gap = .02; end

```

```
if nargin<4 || isempty(marg_h); marg_h = .05; end  
if nargin<5; marg_w = .05; end
```

```
if numel(gap)==1 ;  
    gap = [gap gap;[  
end  
if numel(marg_w)==1 ;  
    marg_w = [marg_w marg_w;[  
end  
if numel(marg_h)==1 ;  
    marg_h = [marg_h marg_h;[  
end
```

```
axh = (1-sum(marg_h)-(Nh-1)*gap(1))/Nh ;  
axw = (1-sum(marg_w)-(Nw-1)*gap(2))/Nw;
```

```
py = 1-marg_h(2)-axh ;
```

```
ha = zeros(Nh*Nw,1;(  
ii = 0;  
for ih = 1:Nh  
    px = marg_w(1;(  
        
```

```
    for ix = 1:Nw  
        ii = ii+1;  
        ha(ii) = axes('Units','normalized... ,'  
        ' Position',[px py axw axh... ,[  
        ' XTickLabel... ,';'
```

```
'      YTickLabel;","",  
px = px+axw+gap(2;(  
end  
py = py-axh-gap(1;(  
end
```