

# Manual for Package: auxiliar

## Revision 16:17M

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## 1 @Compute\_Map

### 1.1 Compute\_Map

container class to store multiple scenarios

### 1.2 key

key for storing a scenario

function [key obj] = key(obj,varargin)

## 2 auxiliar

### 2.1 Container

## 2.2 Expanding Double

## 3 adaptor

adators for backward compatibility for renamed files

### 3.1 Constant

### 3.2 GSD

### 3.3 Keller

### 3.4 MMesh

### 3.5 SMesh

### 3.6 Slg

## 4 auxiliar

### 4.1 addpath\_recursive

recursively add a directory and sub-directories to the Matlab  
search path  
call `restoredefaultpath` to undo this

4.2 arabic2roman

4.3 autocat

4.4 bplus

4.5 btimes

4.6 centre\_axis

4.7 circshift\_fractional

4.8 cmap\_rolling

4.9 colormap3

4.10 colormap\_byr

4.11 copy\_fields



4.12 `copyfields_deep`

4.13 `count_occurence`

4.14 `cummax`

4.15 `cummean`

4.16 `cumstd`

4.17 `cumvar`

4.18 `cvec`

`make vector a column vector`

4.19 `diag3`

4.20 `diffn`

4.21 `dspace`

**4.22** `field_range`

**4.23** `fieldnames_deep`

**4.24** `finite`

**4.25** `fixnan3`

**4.26** `flat`

reshape a (hyper)-matrix into a column vector

**4.27** `folder_name_from_parameters`

**4.28** `frac`

**4.29** `getfield_deep`

function value = getfield\_deep(s,fieldname)

**4.30** `getout`

#### 4.31 hash\_float

#### 4.32 hash\_str

hash a string into a single number

#### 4.33 hashcode

#### 4.34 imagesc\_

#### 4.35 innerspace

linearly increasing vector sampled at mid-intervals

#### 4.36 int2byte

### 5 io/@IniFile

#### 5.1 IniFile

### 6 io

#### 6.1 Stream

## 6.2 catXML

## 6.3 csv2cell

## 6.4 filewrite

# 7 io/netcat

## 7.1 nc

## 7.2 nc\_read\_row

## 7.3 nc\_read\_sequential

## 7.4 nc\_read\_sequential\_column

## 7.5 nc\_readall

## 7.6 nc\_writeall

## 8 io

### 8.1 parseXML

### 8.2 printdef

### 8.3 printf

print values to standard output

### 8.4 save\_

### 8.5 xml2struct

## 9 auxiliar

### 9.1 isfield\_deep

### 9.2 isfieldorprop

### 9.3 isprop\_deep

## 9.4 issym

return true of variable is symbolic

## 9.5 iterate\_cell

## 9.6 jmemory

## 9.7 labelline

## 9.8 leftdiff

## 9.9 leftmean

## 9.10 limits

## 9.11 linspace\_man

## 9.12 linspace\_man2

## 9.13 logspace\_trimmed

## 9.14 matlab\_messages

## 9.15 maxid

index of maximum  
if value is not required (e.g. use in other functions such as  
accummarray)

## 9.16 memsize

## 9.17 mlint\_all

## 9.18 myhot

## 9.19 none

## 9.20 objcopy

# 10 plot

## 10.1 addx

## 10.2 addy

10.3 `adjust_quiver_arrowhead_size`

10.4 `area_man`

10.5 `arrow`

10.6 `axis_equal_man`

10.7 `candlestick_man`

10.8 `circle`

10.9 `cmap`

10.10 `colormap_man`

10.11 `colormap_man2`

10.12 `colormap_man_old`



**10.13**   `columnlegend`

**10.14**   `copyaxes`

**10.15**   `datetick_man`

**10.16**   `daytick`

**10.17**   `dcolormap`

**10.18**   `dots`

**10.19**   `errorarea`

**10.20**   `errorarea2`

`plot area around a curve`

**10.21**   `errorbar_man`

**10.22**   `errorlines`

**10.23**   **fetchsubplot**

**10.24**   **fillmarker**

**10.25**   **get\_coordinates**

**10.26**   **hatch**

**10.27**   **hline**

`plot a horizontal line`

**10.28**   **hold\_color**

**10.29**   **hourspace**

**10.30**   **hourtick**

**10.31**   **interpplot**

**10.32**   **legendtitle**

### 10.33 line\_fewer\_markers

```
find marker spec in varargin and remove it; extract special params:
    LockOnMax,Spacing
input size check
a) once only the line with all points with the style
b) last time the markers, using fewer points with style
c) once with a visible handle, only the first point, using the
    complete style you specified
'x' -> marker delta-x constant; 'curve' : spacing constant along the
    curve length
```

### 10.34 monthspace

### 10.35 monthtick

### 10.36 mycolourmap

### 10.37 namedfigure

```
create a figure and set its window title
```

### 10.38 nansurf

### 10.39 nmcolormap

### 10.40 patch\_man

## 10.41 pdfprint

print a pdf-file for a figure

## 10.42 percenttick

## 10.43 plot2svg

```
" height="100%" viewBox="0 0 %0.3f %0.3f" ',paperpos(3),paperpos(4)
    );
    fprintf(fid,' <filter x="%0.3f%" y="%0.3f%" width="%0.3f%" height="%0.3f%" id="%s">\n', 0, 0, 100, 100, filterId);
    % fprintf(fid,' <filter x="%0.3f%" y="%0.3f%" width="%0.3f%" height="%0.3f%" id="%s">\n', -(offset * 100), -(offset * 100), 100 + (offset * 200), 100 + (offset * 200), filterId);
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% SUBFUNCTIONS %%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

Octave keeps s, d, p and h in the HandleGraphics object, for the square, diamond, pentagram, and hexagram markers, respectively  
-- Jakob Malm

Octave keeps s, d, p and h in the HandleGraphics object, for the square, diamond, pentagram, and hexagram markers, respectively  
-- Jakob Malm

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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```

%%  
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%%  
%%

10.44 `plot_ellipse`

10.45 `plot_style`

10.46 `plotshaded`

10.47 `ploty4`

10.48 `plotyyy`

10.49 `quadsurf`

10.50   `quadsurf2`

10.51   `quadsurf3`

10.52   `quiver3_man`

10.53   `quiver_man`

10.54   `quiver_man2`

10.55   `quiver_man3`

10.56   `rectangles`

10.57   `scaleplot`

10.58   `setfontsize`

10.59   `shade_night`

## 10.60 splitfigure

combined figure and subplot

## 10.61 turtle

## 10.62 velplot

## 10.63 vline

plot a vertical line

## 10.64 vline\_man

## 10.65 weekspace

## 10.66 weektick

## 10.67 xtick

## 10.68 xticklabel

## 10.69 ytick

wrapper for setting yticks

## 10.70 yticklabel

# 11 auxiliar

## 11.1 relpos

## 11.2 reshape\_conditional

## 11.3 rightdiff

## 11.4 rmfield\_deep

## 11.5 rmfield\_optional

## 11.6 rvec

reshape input vector to a column vector

## 11.7 select

select columns of a vector along dimension dim



## 11.8 setfield\_behind

## 11.9 setfield\_deep

set values of a struct or object, fieldnames can have sub-fields indicated by dots

## 11.10 setfields

## 11.11 sign2str

## 11.12 signs

## 11.13 simplifyignore

## 11.14 str\_cell\_reverse\_index

# 12 strings

## 12.1 chomp

## 12.2 chomp1

### 12.3 num2str\_log10

### 12.4 num2str\_power\_10

### 12.5 strjoin

join a cell array of strings

### 12.6 strsplit\_man

### 12.7 suffix

## 13 auxiliar

### 13.1 struct2obj

### 13.2 struct\_avg

### 13.3 struct\_flat

### 13.4 structcopy\_deep

### 13.5 structfun\_deep

### 13.6 sub2ind\_man

### 13.7 subsall

### 13.8 swap

## 14 system

emulate POSIX and BASH functions

### 14.1 alloc

### 14.2 basename

strip the directory from a filename

### 14.3 cbrt

### 14.4 dirname

strip file-name from path

14.5 head

14.6 head\_str

14.7 tail

14.8 tail\_str

## 15 auxiliar

15.1 table2struc\_man

15.2 table2tex

15.3 toInt32

15.4 unique\_columnwise

15.5 unpack\_struct

15.6 `unwrap_periodic`

15.7 `zoomaxis`