

# Manual for Package: auxiliar

## Revision 24M

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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 copy\_fields



#### 4.10 `copyfields_deep`

#### 4.11 `count_occurence`

#### 4.12 `cummax`

#### 4.13 `cummean`

#### 4.14 `cumstd`

#### 4.15 `cumvar`

#### 4.16 `cvec`

make vector a column vector

#### 4.17 `dependencies_determine`

determine dependencies of a matlab function  
function dependencies\_determine(dep\_filename,profile\_filename,  
func\_C)

#### 4.18 `dependencies_fetch`

fetch the dependencies stored in other repositories

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 `getfield_try`

#### 4.31 `getout`

#### 4.32 `hash_float`

#### 4.33 `hash_str`

```
hash a string into a single number
```

#### 4.34 `hashcode`

#### 4.35 `imagesc_`

#### 4.36 `innerspace`

```
linearly increasing vector sampled at mid-intervals
```

#### 4.37 `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  
    `accumarray`)

**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 `colormap3`

10.11 `colormap_byr`

10.12 `colormap_krb`

10.13 `colormap_man`

10.14 `colormap_man2`

10.15 `colormap_man_old`

10.16 `colormap_vegetation`

10.17 `columnlegend`

10.18 `copyaxes`

10.19 `datetick_man`

**10.20**   **daytick**

**10.21**   **dcolormap**

**10.22**   **dots**

**10.23**   **errorarea**

**10.24**   **errorarea2**

plot area around a curve

**10.25**   **errorbar\_man**

**10.26**   **errorlines**

**10.27**   **fetchsubplot**

**10.28**   **fillmarker**

**10.29**   **get\_coordinates**

### 10.30 hatch

### 10.31 hline

plot a horizontal line

### 10.32 hold\_color

### 10.33 hourspace

### 10.34 hourtick

### 10.35 interpplot

### 10.36 legendtitle

### 10.37 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
```

**10.38**   **monthspace**

**10.39**   **monthtick**

**10.40**   **mycolourmap**

**10.41**   **namedfigure**

`create a figure and set its window title`

**10.42**   **nansurf**

**10.43**   **nmcolormap**

**10.44**   **patch\_man**

**10.45**   **pdfprint**

`print a pdf-file for a figure`

**10.46**   **percenttick**

## 10.47 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);
```

[illegible]

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

[illegible]

%%  
%%  
%%

10.48 `plot_ellipse`

10.49 `plot_style`

10.50 `plotshaded`

10.51 `ploty4`

10.52 `plotyyy`

10.53 `quadsurf`

10.54 `quadsurf2`

10.55 `quadsurf3`

10.56 `quiver3_man`

10.57 `quiver_man`

10.58 `quiver_man2`

10.59 `quiver_man3`

10.60 `rectangles`

10.61 `scaleplot`

10.62 `setfontsize`

10.63 `shade_night`

10.64 `splitfigure`

`combined figure and subplot`

10.65 `turtle`

**10.66** `velplot`

**10.67** `vline`

`plot a vertical line`

**10.68** `vline_man`

**10.69** `weekspace`

**10.70** `weektick`

**10.71** `xtick`

**10.72** `xticklabel`

**10.73** `ytick`

`wrapper for setting yticks`

**10.74** `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

```
function s = setfield_deep(s,fieldname,value)
```

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`**