

Manual for Package: auxiliar

Revision 7:11M

Karl Kästner

August 11, 2020

Contents

1	auxiliar	1
1.1	Expanding_Double	1
2	adaptor	1
2.1	Constant	1
2.2	GSD	1
2.3	Keller	1
2.4	MMesh	1
2.5	SMesh	2
2.6	Slg	2
3	auxiliar	2
3.1	arabic2roman	2
3.2	autocat	2
3.3	bplus	2
3.4	btimes	2
3.5	centre_axis	2
3.6	circshift_fractional	2
3.7	cmap_rolling	2
3.8	colormap3	3
3.9	colormap_byr	3
3.10	copy_fields	3
3.11	copyfields_deep	3
3.12	count_occurence	3
3.13	cummax	3
3.14	cummean	3
3.15	cumstd	3
3.16	cumvar	3
3.17	cvec	3

3.18	diag3	4
3.19	down	4
3.20	dspace	4
3.21	field_range	4
3.22	fieldnames_deep	4
3.23	finite	4
3.24	fixnan3	4
3.25	flat	4
3.26	frac	4
3.27	getfield_deep	4
3.28	getout	5
3.29	hashcode	5
3.30	imagesc_	5
3.31	innerspace	5
4	io/@IniFile	5
4.1	IniFile	5
5	io	5
5.1	Stream	5
5.2	catXML	5
5.3	csv2cell	5
5.4	filewrite	5
6	io/netcat	6
6.1	nc	6
6.2	nc_read_row	6
6.3	nc_read_sequential	6
6.4	nc_read_sequential_column	6
6.5	nc_readall	6
6.6	nc_writeall	6
7	io	6
7.1	parseXML	6
7.2	printdef	6
7.3	printf	6
7.4	save_	7
7.5	xml2struct	7
8	auxiliar	7
8.1	isfield_deep	7
8.2	isprop_deep	7
8.3	issym	7
8.4	iterate_cell	7

8.5	jmemory	7
8.6	leftdiff	7
8.7	leftmean	7
8.8	limits	8
8.9	linspace_man	8
8.10	linspace_man2	8
8.11	logspace_trimmed	8
8.12	matlab_messages	8
8.13	maxid	8
8.14	memsize	8
8.15	mlint_all	8
8.16	myhot	8
8.17	none	9
8.18	objcopy	9
9	plot	9
9.1	addx	9
9.2	addy	9
9.3	adjust_quiver_arrowhead_size	9
9.4	area_man	9
9.5	arrow	9
9.6	axis_equal_man	9
9.7	candlestick_man	9
9.8	circle	10
9.9	cmap	10
9.10	colormap_man	10
9.11	colormap_man2	10
9.12	colormap_man_old	10
9.13	columnlegend	10
9.14	copyaxes	10
9.15	datetick_man	10
9.16	daytick	10
9.17	dcolormap	10
9.18	dots	11
9.19	errorarea	11
9.20	errorarea2	11
9.21	errorbar_man	11
9.22	errorlines	11
9.23	fetchsubplot	11
9.24	fillmarker	11
9.25	get_coordinates	11
9.26	hatch	11
9.27	hline	11
9.28	hold_color	12

9.29	hourspace	12
9.30	hourtick	12
9.31	interpplot	12
9.32	legendtitle	12
9.33	line_fewer_markers	12
9.34	monthspace	12
9.35	monthtick	12
9.36	mycolourmap	13
9.37	namedfigure	13
9.38	nansurf	13
9.39	nmcolormap	13
9.40	patch_man	13
9.41	pdfprint	13
9.42	percenttick	13
9.43	plot2svg	13
9.44	plot_ellipse	14
9.45	plot_style	15
9.46	plotshaded	15
9.47	ploty4	15
9.48	plotyyy	15
9.49	quadsurf	15
9.50	quadsurf2	15
9.51	quadsurf3	15
9.52	quiver3_man	15
9.53	quiver_man	15
9.54	quiver_man2	15
9.55	quiver_man3	16
9.56	rectangles	16
9.57	scaleplot	16
9.58	setfontsize	16
9.59	shade_night	16
9.60	splitfigure	16
9.61	turtle	16
9.62	velplot	16
9.63	vline	16
9.64	vline_man	16
9.65	weekspace	17
9.66	weektick	17
9.67	xtick	17
9.68	xticklabel	17
9.69	ytick	17
9.70	yticklabel	17

10.1	relpos	17
10.2	reshape_conditional	17
10.3	rightdiff	17
10.4	rmfield_optional	18
10.5	rvec	18
10.6	select	18
10.7	setfield_deep	18
10.8	setfields	18
10.9	sign2str	18
10.10	signs	18
10.11	simplifyignore	18
10.12	str_cell_reverse_index	18
11	strings	19
11.1	chomp	19
11.2	chomp1	19
11.3	num2str_log10	19
11.4	num2str_power_10	19
11.5	strjoin	19
11.6	strsplit_man	19
11.7	suffix	19
12	auxiliar	19
12.1	struct2obj	19
12.2	struct_avg	19
12.3	struct_flat	20
12.4	structcopy_deep	20
12.5	structfun_deep	20
12.6	sub2ind_man	20
12.7	subsall	20
12.8	swap	20
13	system	20
13.1	alloc	20
13.2	basename	20
13.3	cbirt	20
13.4	dirname	21
13.5	head	21
13.6	head_str	21
13.7	tail	21
13.8	tail_str	21
14	auxiliar	21
14.1	toInt32	21

14.2	unique_columnwise	21
14.3	unpack_struct	21
14.4	unwrap_periodic	21
14.5	up	22
14.6	zoomaxis	22

1 auxiliar

1.1 Expanding Double

2 adaptor

adators for backward compatibility for renamed files

2.1 Constant

2.2 GSD

2.3 Keller

2.4 MMesh

2.5 SMesh

2.6 Slg

3 auxiliar

3.1 arabic2roman

3.2 autocat

3.3 bplus

3.4 btimes

3.5 centre_axis

3.6 circshift_fractional

3.7 cmap_rolling

3.8 colormap3

3.9 colormap_byr

3.10 `copy_fields`

3.11 `copyfields_deep`

3.12 `count_occurence`

3.13 `cummax`

3.14 `cummean`

3.15 `cumstd`

3.16 `cumvar`

3.17 `cvec`

3.18 `diag3`

3.19 `down`

3.20 `dspace`

3.21 `field_range`

3.22 `fieldnames_deep`

3.23 `finite`

3.24 `fixnan3`

3.25 `flat`

3.26 `frac`

3.27 `getfield_deep`

3.28 `getout`

3.29 `hashcode`

3.30 imagesc_

3.31 innerspace

4 io/@IniFile

4.1 IniFile

5 io

5.1 Stream

5.2 catXML

5.3 csv2cell

5.4 filewrite

6 io/netcat

6.1 nc

6.2 `nc_read_row`

6.3 `nc_read_sequential`

6.4 `nc_read_sequential_column`

6.5 `nc_readall`

6.6 `nc_writeall`

7 `io`

7.1 `parseXML`

7.2 `printdef`

7.3 `printf`

7.4 `save_`

7.5 xml2struct

8 auxiliar

8.1 isfield_deep

8.2 isprop_deep

8.3 issym

8.4 iterate_cell

8.5 jmemory

8.6 leftdiff

8.7 leftmean

8.8 limits

8.9 `linspace_man`

8.10 `linspace_man2`

8.11 `logspace_trimmed`

8.12 `matlab_messages`

8.13 `maxid`

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

8.14 `memsize`

8.15 `mlint_all`

8.16 `myhot`

8.17 `none`

8.18 `objcopy`

9 `plot`

9.1 `addx`

9.2 `addy`

9.3 `adjust_quiver_arrowhead_size`

9.4 `area_man`

9.5 `arrow`

9.6 `axis_equal_man`

9.7 `candlestick_man`

9.8 `circle`

9.9 **cmap**

9.10 **colormap_man**

9.11 **colormap_man2**

9.12 **colormap_man_old**

9.13 **columnlegend**

9.14 **copyaxes**

9.15 **datetick_man**

9.16 **daytick**

9.17 **dcolormap**

9.18 **dots**

9.19 `errorarea`

9.20 `errorarea2`

9.21 `errorbar_man`

9.22 `errorlines`

9.23 `fetchsubplot`

9.24 `fillmarker`

9.25 `get_coordinates`

9.26 `hatch`

9.27 `hline`

9.28 `hold_color`

9.29 hourspace

9.30 hourtick

9.31 interpplot

9.32 legendtitle

9.33 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
```

9.34 monthspace

9.35 monthtick

9.36 mycolourmap

9.37 `namedfigure`

9.38 `nansurf`

9.39 `nmcolormap`

9.40 `patch_man`

9.41 `pdfprint`

9.42 `percenttick`

9.43 `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
```


9.46 `plotshaded`

9.47 `ploty4`

9.48 `plotyyy`

9.49 `quadsurf`

9.50 `quadsurf2`

9.51 `quadsurf3`

9.52 `quiver3_man`

9.53 `quiver_man`

9.54 `quiver_man2`

9.55 `quiver_man3`

9.56 `rectangles`

9.57 `scaleplot`

9.58 `setfontsize`

9.59 `shade_night`

9.60 `splitfigure`

9.61 `turtle`

9.62 `velplot`

9.63 `vline`

9.64 `vline_man`

9.65 `weekspace`

9.66 weektick

9.67 xtick

9.68 xticklabel

9.69 ytick

9.70 yticklabel

10 auxiliar

10.1 relpos

10.2 reshape_conditional

10.3 rightdiff

10.4 rmfield_optional

10.5 `rvec`

10.6 `select`

10.7 `setfield_deep`

10.8 `setfields`

10.9 `sign2str`

10.10 `signs`

10.11 `simplifyignore`

10.12 `str_cell_reverse_index`

11 `strings`

11.1 `chomp`

11.2 `chomp1`

11.3 `num2str_log10`

11.4 `num2str_power_10`

11.5 `strjoin`

11.6 `strsplit_man`

11.7 `suffix`

12 `auxiliar`

12.1 `struct2obj`

12.2 `struct_avg`

12.3 `struct_flat`

12.4 structcopy_deep

12.5 structfun_deep

12.6 sub2ind_man

12.7 subsall

12.8 swap

13 system

emulate POSIX and BASH functions

13.1 alloc

13.2 basename

13.3 cbrt

13.4 dirname

13.5 head

13.6 head_str

13.7 tail

13.8 tail_str

14 auxiliar

14.1 toInt32

14.2 unique_columnwise

14.3 unpack_struct

14.4 unwrap_periodic

14.5 up

14.6 zoomaxis