FF_CONTAINER_MAP_DISPLAY Examples

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This is the example vignette for function: **ff_container_map_display** from the **MEconTools Package.** This function summarizes statistics of matrixes stored in a container map, as well as scalar, string, function and other values stored in container maps.

Test FF_CONTAINER_MAP_DISPLAY Defaults

Call the function with defaults.

f_cont	ainer_map	_displ	ay();									
xxxxxxx	xxxxxxxxxx	xxxxxxx	·····	xxxxxx								
ND Array	y (Matrix e	tc)										
XXXXXXX	xxxxxxxxx	XXXXXXX	XXXXXXX	XXXXXX								
		i	idx	ndim	numel	rowN	I colN	ı	mean	std	coefvari	min
								_				
mat_:	1	1	7	2	12	3	4	0	.54285	0.2232	0.41115	0.2268
mat_	2	2	8	2	2650	50	53	0	.49559	0.29232	0.58985	6.7838e-0
mat_	2_boolean	3	9	2	2650	50	53	0	.51358	0.49991	0.97337	
mat_3	3	4	10	2	4	2	2	0	.45277	0.45111	0.99635	0.0001247
tens	or_1	5	15	3	16	2	8	0	.45652	0.27787	0.60867	0.01809
tens	or_2	6	16	3	75	3	25	0	.53593	0.29044	0.54194	0.002429
tenso	or_3	7	17	2	4	1	4	0	.42315	0.37389	0.88359	0.121
	eract_1	8	18	4	72	3	24	0	.47669	0.26374	0.55327	0.01023
tess	eract_2	9	19	4	20	2	10	0	.42096	0.28981	0.68846	0.04311
tess	eract_bl_3	10	20	4	10	1	10		0.3	0.48305	1.6102	(
r2 r3 <x tabli<="" th=""><th>0.28614 0.22685 E:mat_2 xxx: c1</th><th></th><th>1 0.</th><th>68483 48093 c3</th><th>0.34318 0.72905</th><th>ı.</th><th>c50</th><th></th><th>c51</th><th>c52</th><th>c53</th><th></th></x>	0.28614 0.22685 E:mat_2 xxx: c1		1 0.	68483 48093 c3	0.34318 0.72905	ı.	c50		c51	c52	c53	
r1	0.43857	0.	6249	0.17108	0.56	5564	0.0721		0.67855			002
r2	0.059678		7469	0.82911	0.084		0.632		0.27236			
r3	0.39804		34234	0.33867	0.58		0.0463		0.44513			839
r4	0.738		3195	0.55237	0.81		0.505		0.11117			
r5	0.18249		6368	0.57855	0.33		0.106		0.028681			
r46	0.6813		55326	0.88786	0.69		0.837		0.16382			
r47	0.87546		85445	0.69631	0.66		0.970		0.79092			
r48	0.51042			0.44033		923	0.0177		0.33302			
r49 r50	0.66931 0.58594		31679 35426	0.43821 0.7651			0.129 0.864		0.75311 0.58281			986 579
1.20	0.56594	0.3	5420	0.7651	0.51	.0/2	0.804	10	0.30201	0.847	95 0.4	579
xx TABLI	E:mat_2_boo											
	c1 	c2	c3	c4	c50 	_	c51	c52	c53 	_		
r1	true	false	false	true	true	<u> </u>	false	true	true			
r2	true	false	true	true	fals		false	true	true			

	r3 r4 r5 r46	false false true false	true true true true	false false true true	e fal fal fal	se false se true se true	true true false true	false true false true	true true true	
	r47 r48 r49 r50	true true true false	true false true false	falso falso falso	e fal	se true e true	true true true false	false false false false	false true false false	
xxx	TABLE	:mat_3 xx> c1	c:		x					
	r1 r2	0.0001247		3253 9226						
xxx	TABLE	:tensor_1 c1	c2	«xxxxx	c3	c4	c5	c6 	c7	c8
	r1 r2	0.019363 0.018091	0.342 0.333		0.52167 0.11738	0.53703 0.77857	0.75756 0.81933	0.68839 0.28644		0.26597 0.368
xxx	TABLE	:tensor_2 c1	c2	«xxxxx	c3	c4	c22	c23	c24	c25
	r1 r2 r3	0.51866 0.028692 0.87339	0.4049 0.3749 0.1949	98	0.48278 0.24149 0.83212	0.99731 0.35201 0.15315	0.46584 0.66054 0.77859	0.62976 0.87243 0.96663	0.0024293	0.81088
xxx	TABLE	:tensor_3 c1	c2	c:		c4				
	r1	0.1219	0.5119	0.9	1553	0.14329				
xxx	TABLE	:tesseract c1	c2	«xxxxx	c3	c4	c21	c22	c23	c24
	r1 r2 r3	0.64531 0.74558 0.91137	0.500	7 0	.46142	0.21384	0.90328 0.35564 0.46246	0.13732	0.155	0.23786
xxx	TABLE	:tesseract c1	c2 xxxxxx	<xxxxx< td=""><td>c3</td><td>c4</td><td>c7</td><td>c8 </td><td>c9</td><td>c10</td></xxxxx<>	c3	c4	c7	c8 	c9	c10
	r1 r2	0.28898 0.094493			0.44359 0.17595	0.97146 0.14192	0.61782 0.16754		0.80715 0.043114	0.11605 0.70518
XXX	TABLE	:tesseract		c3	c4	c7	c8	с9	c10	
	r1	false	false	true	true	false	true	false	false	
Sc	alars	 xxxxxxxxx xxxxxxxx	(XXXXXXXX							

```
1 1 1
2 2 NaN
3 11 0.74898
  boolean_1
  empty
  mat_4
  string_float_1 4 13
                  1021.1
  string_int_1 5 14
                    1021
i
               idx
                        string
  list_string_1 "1" "5"
                    "col1;col2;col3;col4"
  list_string_2 "2" "6"
                    "row1;row2;row3;row4"
           "3"
               "12"
                    "Table Name"
  string_1
Functions
i idx functionString
  func1 "1" "3" "@(x)1+2+x"
  func2 "2" "4" "@(x,y)x*1+sqrt(y)"
```

Test FF_CONTAINER_MAP_DISPLAY summarize Matrix Only

Three large matrixes, show summaries

```
% Create Container
mp_container_map = containers.Map('KeyType','char', 'ValueType','any');
rng(123);
mp_container_map('mat_1') = rand(100,100);
mp_container_map('mat_2') = rand(100,100)*2 + 1;
mp_container_map('mat_2_boolean') = (rand(100,100) > 0.5);
% Will only print
ff_container_map_display(mp_container_map);
```

	i	idx	ndim	numel	rowN	colN	mean	std	coefvari	min
	_									
mat_1	1	1	2	10000	100	100	0.49823	0.28829	0.57863	6.7838e-05
mat_2	2	2	2	10000	100	100	2.0029	0.57632	0.28774	1.0003
mat_2_boolean	3	3	2	10000	100	100	0.4995	0.50002	1.0011	0

Test FF_CONTAINER_MAP_DISPLAY Show Matrix Subset

A container map with three small matrixes, print only only 2 rows and 3 columns.

```
% Create Container
mp_container_map = containers.Map('KeyType','char', 'ValueType','any');
rng(789);
mp_container_map('mat_1') = rand(3,4);
```

```
mp_container_map('mat_2') = rand(50,53);
mp_container_map('mat_2_boolean') = (rand(50,53) > 0.5);
% Will only print
ff_container_map_display(mp_container_map, 2, 3);
```

CONTAINER NAME: mp_container_map ND Array (Matrix etc)

	i	idx	ndim	numel	rowN	colN	mean	std	coefvari	min	
	-										-
mat_1	1	1	2	12	3	4	0.41564	0.33586	0.80805	0.01062	6
mat_2	2	2	2	2650	50	53	0.49973	0.28834	0.57699	0.00046692	6
mat_2_boolean	3	3	2	2650	50	53	0.50943	0.50001	0.98149	0	

	c1	c2	c 3	с4
r1	0.32333	0.62442	0.01062	0.53815
r3	0.79378	0.75889	0.11104	0.55157

xxx TABLE:mat_2 xxxxxxxxxxxxxxxxxx

	CI	CZ	C52	C53
r1	0.72837	0.20976	0.74583	0.22321
r50	0.52812	0.545	0.49521	0.29826

	CI	C2	C52	C53
r1 r50	false true	true false	true false	true true