

# FF\_MLX2HTMLPDF\_RUNANDEXPORT Examples

back to [Fan's Intro Math for Econ](#), [Matlab Examples](#), or [Dynamic Asset Repositories](#)

This is the example vignette for function: [ff\\_mlx2htmlpdf\\_runandexport](#) from the [MEconTools Package](#). This file runs MLX files and converts it to HTML files.

## Test FF\_MLX2HTMLPDF\_RUNANDEXPORT search for MLX files and Convert to HTML

Finds MLX files, re-run, and save to HTML in possibly another folder.

```
st_proj_folder = 'C:\Users\fan\MEconTools\MEconTools\doc\';
cl_st_subfolder = {'generate','graph'};
st_out_folder = 'C:\Users\fan\MEconTools\MEconTools\doc\sys\_test';
st_mlx_search_name = '*.mlx';
st_pub_format = 'html';
bl_run_mlx = true;
bl_run_mlx_only = false;
bl_verbose = true;
ff_mlx2htmlpdf_runandexport(...
    st_proj_folder, cl_st_subfolder, ...
    st_mlx_search_name, st_out_folder, st_pub_format, ...
    bl_run_mlx, bl_run_mlx_only, ...
    bl_verbose);
```

execute:fx\_saveborr\_grid.mlx

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CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)

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	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	min
	—	—	—	—	—	—	—	—	—	—	—
ar_f1_saveborr	1	1	2	25	25	1	385.93	15.437	15.324	0.99265	1

xxx TABLE:ar\_f1\_saveborr xxxxxxxxxxxxxxxxxxxx

c1

	—
r1	1
r2	1.0174
r3	1.0982
r4	1.2707
r5	1.5557
r6	1.9707
r7	2.5312
r8	3.2512
r9	4.1434
r10	5.2196
r11	6.4912
r12	7.9687
r13	9.6621
r14	11.581
r15	13.735
r16	16.132
r17	18.781
r18	21.691
r19	24.87

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r20    28.324
r21    32.063
r22    36.093
r23    40.421
r24    45.054
r25         50

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTAINER NAME: mp_container_map Scalars
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```

	i	idx	value
	—	—	—
grid_evenlog_threshold	1	2	1
grid_log10space_x1	2	3	0.3
grid_log10space_x2	3	4	3
grid_powerspace_power	4	5	2.5

## Test FF\_MLX2HTMLPDF\_RUNANDEXPORT re-run MLX

Finds MLX files, re-run, do NOT save HTML.

```

st_proj_folder = 'C:\Users\fan\MEconTools\MEconTools\doc\';
cl_st_subfolder = {'external'};
st_mlx_search_name = '*.mlx';
st_out_folder = '';
st_pub_format = '';
bl_run_mlx = true;
bl_run_mlx_only = true;
bl_verbose = true;
ff_mlx2htmlpdf_runandexport(...
    st_proj_folder, cl_st_subfolder, ...
    st_mlx_search_name, st_out_folder, st_pub_format, ...
    bl_run_mlx, bl_run_mlx_only, ...
    bl_verbose);

```

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTAINER NAME: mp_container_map ND Array (Matrix etc)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	min
	—	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	5	5	1	0	0	0.39528	Inf	-0.5
mt_disc_ar1_trans	2	11	2	25	5	5	5	0.2	0.18246	0.91229	0.0016

```

xxx TABLE:ar_disc_ar1 XXXXXXXXXXXXXXXXXXXXX
c1

```

```

r1    -0.5
r2    -0.25
r3     0
r4     0.25
r5     0.5

```

```

xxx TABLE:mt_disc_ar1_trans XXXXXXXXXXXXXXXXXXXXX
c1      c2      c3      c4      c5

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```
xxx TABLE:ar disc ar1 xxxxxxxxxxxxxxxxxxxxxxxxx
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xxx TABLE:mt disc ar1 trans xxxxxxxxxxxxxxxxxxxxxxxx
```

[illegible]

CONTAINER NAME: mp container map Scalars

[illegible]

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XX

CONTAINER NAME: mp container map ND Array (Matrix etc)

[illegible]

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	n
	—	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	7	7	1	0	0	0.017639	Inf	-0.0
mt_disc_ar1_trans	2	11	2	49	7	7	7	0.14286	0.10985	0.76893	0.0

xxx TABLE:ar\_disc\_ar1 xxxxxxxxxxxxxxxxxxxx  
c1

r1	-0.024496
r2	-0.016331
r3	-0.0081654
r4	0
r5	0.0081654
r6	0.016331
r7	0.024496

xxx TABLE:mt\_disc\_ar1\_trans xxxxxxxxxxxxxxxxxxxx

	c1	c2	c3	c4	c5	c6	c7
	—	—	—	—	—	—	—
r1	0.016586	0.097547	0.23904	0.31241	0.22966	0.090047	0.014711
r2	0.016258	0.096266	0.23749	0.31247	0.23124	0.091266	0.015008
r3	0.015936	0.094997	0.23594	0.31251	0.23281	0.092497	0.015311
r4	0.01562	0.093741	0.23438	0.31252	0.23438	0.093741	0.01562
r5	0.015311	0.092497	0.23281	0.31251	0.23594	0.094997	0.015936
r6	0.015008	0.091266	0.23124	0.31247	0.23749	0.096266	0.016258
r7	0.014711	0.090047	0.22966	0.31241	0.23904	0.097547	0.016586

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CONTAINER NAME: mp\_container\_map Scalars  
xx

	i	idx	value
	—	—	—
fl_ar1_beg	1	2	-0.024496
fl_ar1_end	2	3	0.024496
fl_ar1_persistence	3	4	0.01
fl_ar1_step	4	5	0.0081654
fl_p0	5	6	0.505
fl_q0	6	7	0.505
fl_shk_std	7	8	0.01
fl_sig_ar1	8	9	0.010001
it_std_bound	9	10	0

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xx  
CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)  
xx

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari
	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	7	7	1	3.5527e-15	5.0753e-16	12.378	2.439e+
mt_disc_ar1_trans	2	11	2	49	7	7	7	0.14286	0.34148	2.39

xxx TABLE:ar\_disc\_ar1 xxxxxxxxxxxxxxxxxxxx  
c1

r1	-17.19
r2	-11.46
r3	-5.7301
r4	0

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r5      5.7301
r6      11.46
r7      17.19

```

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xxx TABLE:mt_disc_ar1_trans xxxxxxxxxxxxxxxxxxxx

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	c1	c2	c3	c4	c5	c6	c7
r1	0.97037	0.029257	0.00036756	2.4627e-06	9.2815e-09	1.8656e-11	1.5625e-14
r2	0.0048762	0.9705	0.024382	0.00024504	1.2314e-06	3.0938e-09	3.1094e-12
r3	2.4504e-05	0.009753	0.97057	0.019506	0.00014703	4.9254e-07	6.1877e-10
r4	1.2313e-07	7.3513e-05	0.01463	0.97059	0.01463	7.3513e-05	1.2313e-07
r5	6.1877e-10	4.9254e-07	0.00014703	0.019506	0.97057	0.009753	2.4504e-05
r6	3.1094e-12	3.0938e-09	1.2314e-06	0.00024504	0.024382	0.9705	0.0048762
r7	1.5625e-14	1.8656e-11	9.2815e-09	2.4627e-06	0.00036756	0.029257	0.97037

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CONTAINER NAME: mp_container_map Scalars

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	i	idx	value
fl_ar1_beg	1	2	-17.19
fl_ar1_end	2	3	17.19
fl_ar1_persistence	3	4	0.99
fl_ar1_step	4	5	5.7301
fl_p0	5	6	0.995
fl_q0	6	7	0.995
fl_shk_std	7	8	0.99
fl_sig_ar1	8	9	7.0179
it_std_bound	9	10	0

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CONTAINER NAME: mp_container_map ND Array (Matrix etc)

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```

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	m
ar_disc_ar1	1	1	2	7	7	1	0	0	0.017639	Inf	-0.0
mt_disc_ar1_trans	2	11	2	49	7	7	7	0.14286	0.10985	0.76893	0.0

```

xxx TABLE:ar_disc_ar1 xxxxxxxxxxxxxxxxxxxx

```

	c1
r1	-0.024496
r2	-0.016331
r3	-0.0081654
r4	0
r5	0.0081654
r6	0.016331
r7	0.024496

```

xxx TABLE:mt_disc_ar1_trans xxxxxxxxxxxxxxxxxxxx

```

	c1	c2	c3	c4	c5	c6	c7
r1	0.016586	0.097547	0.23904	0.31241	0.22966	0.090047	0.014711
r2	0.016258	0.096266	0.23749	0.31247	0.23124	0.091266	0.015008
r3	0.015936	0.094997	0.23594	0.31251	0.23281	0.092497	0.015311
r4	0.01562	0.093741	0.23438	0.31252	0.23438	0.093741	0.01562
r5	0.015311	0.092497	0.23281	0.31251	0.23594	0.094997	0.015936
r6	0.015008	0.091266	0.23124	0.31247	0.23749	0.096266	0.016258

r7 0.014711 0.090047 0.22966 0.31241 0.23904 0.097547 0.016586

CONTAINER NAME: mp\_container\_map Scalars

	i	idx	value
	—	—	—
fl_ar1_beg	1	2	-0.024496
fl_ar1_end	2	3	0.024496
fl_ar1_persistence	3	4	0.01
fl_ar1_step	4	5	0.0081654
fl_p0	5	6	0.505
fl_q0	6	7	0.505
fl_shk_std	7	8	0.01
fl_sig_ar1	8	9	0.010001
it_std_bound	9	10	0

CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	min
	—	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	5	5	1	0	0	0.79057	Inf	
mt_disc_ar1_trans	2	6	2	25	5	5	5	0.2	0.27623	1.3812	7.3923e-

xxx TABLE:ar\_disc\_ar1 c1

r1	-1
r2	-0.5
r3	0
r4	0.5
r5	1

xxx TABLE:mt\_disc\_ar1\_trans c1 c2 c3 c4 c5

	c1	c2	c3	c4	c5
r1	0.22663	0.73331	0.040048	1.0689e-05	7.3923e-12
r2	0.012224	0.58648	0.39831	0.0029797	7.605e-08
r3	8.8417e-05	0.10556	0.7887	0.10556	8.8417e-05
r4	7.605e-08	0.0029797	0.39831	0.58648	0.012224
r5	7.3923e-12	1.0689e-05	0.040048	0.73331	0.22663

CONTAINER NAME: mp\_container\_map Scalars

	i	idx	value
	—	—	—
fl_ar1_persistence	1	2	0.6
fl_ar1_step	2	3	0.5
fl_shk_std	3	4	0.2
it_std_bound	4	5	4

CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coef
	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	10	10	1	-7.2164e-16	-7.2164e-17	0.2523	-3.49
mt_disc_ar1_trans	2	6	2	100	10	10	10	0.1	0.11456	

xxx TABLE:ar\_disc\_ar1 xxxxxxxxxxxxxxxxxxxx  
c1

```

r1      -0.375
r2     -0.29167
r3     -0.20833
r4      -0.125
r5    -0.041667
r6     0.041667
r7       0.125
r8     0.20833
r9     0.29167
r10     0.375

```

xxx TABLE:mt\_disc\_ar1\_trans xxxxxxxxxxxxxxxxxxxx  
c1 c2 c3 c4 c5 c6 c7 c8

	c1	c2	c3	c4	c5	c6	c7	c8
	—	—	—	—	—	—	—	—
r1	0.13933	0.26196	0.31887	0.20154	0.066066	0.011201	0.00097859	4.3874e-05
r2	0.056673	0.16995	0.30658	0.28713	0.1396	0.035167	0.0045756	0.00030628
r3	0.01861	0.087039	0.23281	0.32308	0.23281	0.087039	0.016841	0.0016806
r4	0.0048925	0.035167	0.1396	0.28713	0.30658	0.16995	0.048841	0.0072547
r5	0.0010235	0.011201	0.066066	0.20154	0.31887	0.26196	0.11169	0.02466
r6	0.00016962	0.0028101	0.02466	0.11169	0.26196	0.31887	0.20154	0.066066
r7	2.2197e-05	0.00055483	0.0072547	0.048841	0.16995	0.30658	0.28713	0.1396
r8	2.2881e-06	8.6129e-05	0.0016806	0.016841	0.087039	0.23281	0.32308	0.23281
r9	1.8543e-07	1.0503e-05	0.00030628	0.0045756	0.035167	0.1396	0.28713	0.30658
r10	1.1798e-08	1.0053e-06	4.3874e-05	0.00097859	0.011201	0.066066	0.20154	0.31887

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xx  
CONTAINER NAME: mp\_container\_map Scalars  
xx

	i	idx	value
	—	—	—
fl_ar1_persistence	1	2	0.6
fl_ar1_step	2	3	0.083333
fl_shk_std	3	4	0.1
it_std_bound	4	5	3

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xx  
CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)  
xx

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefvari	min
	—	—	—	—	—	—	—	—	—	—	—
ar_disc_ar1	1	1	2	7	7	1	0	0	0.15314	Inf	-0.21
mt_disc_ar1_trans	2	6	2	49	7	7	7	0.14286	0.35338	2.4737	

xxx TABLE:ar\_disc\_ar1 xxxxxxxxxxxxxxxxxxxx  
c1

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r1      -0.21266
r2      -0.14178
r3     -0.070888

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r4      0
r5    0.070888
r6    0.14178
r7    0.21266

```

xxx TABLE:mt\_disc\_ar1\_trans xxxxxxxxxxxxxxxxxxxx

	c1	c2	c3	c4	c5	c6	c7
r1	0.99957	0.00043152	0	0	0	0	0
r2	0.00011382	0.99955	0.0003337	0	0	0	0
r3	4.8683e-27	0.00015	0.99959	0.00025684	0	0	0
r4	1.4175e-70	1.0439e-26	0.00019675	0.99961	0.00019675	0	0
r5	1.9884e-135	4.986e-70	2.2273e-26	0.00025684	0.99959	0.00015	0
r6	1.2359e-221	1.149e-134	1.7451e-69	4.7287e-26	0.0003337	0.99955	0.00011382
r7	0	1.1738e-220	6.6059e-134	6.077e-69	9.9893e-26	0.00043152	0.99957

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 xx  
 CONTAINER NAME: mp\_container\_map Scalars  
 xx

	i	idx	value
fl_ar1_persistence	1	2	0.99
fl_ar1_step	2	3	0.070888
fl_shk_std	3	4	0.01
it_std_bound	4	5	3

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 xx  
 CONTAINER NAME: mp\_container\_map ND Array (Matrix etc)  
 xx

	i	idx	ndim	numel	rowN	colN	sum	mean	std	coefv
ar_disc_ar1	1	1	2	7	7	1	3.4694e-18	4.9564e-19	0.021604	4.3588
mt_disc_ar1_trans	2	6	2	49	7	7	7	0.14286	0.13667	0.9

xxx TABLE:ar\_disc\_ar1 xxxxxxxxxxxxxxxxxxxx

	c1
r1	-0.030002
r2	-0.020001
r3	-0.010001
r4	0
r5	0.010001
r6	0.020001
r7	0.030002

xxx TABLE:mt\_disc\_ar1\_trans xxxxxxxxxxxxxxxxxxxx

	c1	c2	c3	c4	c5	c6	c7
r1	0.0067533	0.064018	0.2484	0.38278	0.23505	0.057298	0.0057011
r2	0.0065668	0.06286	0.24618	0.38287	0.23728	0.05838	0.0058656
r3	0.0063849	0.061717	0.24396	0.38292	0.2395	0.059478	0.0060344
r4	0.0062075	0.06059	0.24173	0.38294	0.24173	0.06059	0.0062075
r5	0.0060344	0.059478	0.2395	0.38292	0.24396	0.061717	0.0063849
r6	0.0058656	0.05838	0.23728	0.38287	0.24618	0.06286	0.0065668
r7	0.0057011	0.057298	0.23505	0.38278	0.2484	0.064018	0.0067533

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xxx TABLE:ar disc ar1 xxxxxxxxxxxxxxxxxxxxxxxxx
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xxx TABLE:mt disc ar1 trans xxxxxxxxxxxxxxxxxxxxxxxx
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CONTAINER NAME: mp container map Scalars

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CONTAINER NAME: mp container map ND Array (Matrix etc)

[illegible]

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```
xxx TABLE:ar_disc_ar1 xxxxxxxxxxxxxxxxxxxx
      c1
```

r1	-0.030002
r2	-0.020001
r3	-0.010001
r4	0
r5	0.010001
r6	0.020001
r7	0.030002

```
xxx TABLE:mt_disc_ar1_trans xxxxxxxxxxxxxxxxxxxx
      c1      c2      c3      c4      c5      c6      c7
```

r1	0.0067533	0.064018	0.2484	0.38278	0.23505	0.057298	0.0057011
r2	0.0065668	0.06286	0.24618	0.38287	0.23728	0.05838	0.0058656
r3	0.0063849	0.061717	0.24396	0.38292	0.2395	0.059478	0.0060344
r4	0.0062075	0.06059	0.24173	0.38294	0.24173	0.06059	0.0062075
r5	0.0060344	0.059478	0.2395	0.38292	0.24396	0.061717	0.0063849
r6	0.0058656	0.05838	0.23728	0.38287	0.24618	0.06286	0.0065668
r7	0.0057011	0.057298	0.23505	0.38278	0.2484	0.064018	0.0067533

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xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
CONTAINER NAME: mp_container_map Scalars
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

	i	idx	value
	—	—	—
f1_ar1_persistence	1	2	0.01
f1_ar1_step	2	3	0.010001
f1_shk_std	3	4	0.01
it_std_bound	4	5	3