

Examples of generated L^AT_EX tables

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```
library(micompr)
mic <- micomp(4, 0.95,
             list(list(name = "NLvsJOK", grpout = pphpc_ok),
                  list(name = "NLvsJNS", grpout = pphpc_noshuff),
                  list(name = "NLvsJDIF", grpout = pphpc_diff)),
             concat = TRUE)
```

```
toLatex(mic,
        caption = "Default table.")
```













Comp.	Data	Outputs			
		out1	out2	out3	out4
NLvsJOK	#PCs (95% var.)	5	3	7	10
	MNV (95% var.)	0.323	0.420	0.061	<u>0.026</u>
	Par. test (PC1)	0.821	0.470	0.971	<u>0.473</u>
	Non-par. test (PC1)	1.000	0.579	0.796	0.393
	PCS				
NLvsJNS	#PCs (95% var.)	3	2	4	2
	MNV (95% var.)	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
	Par. test (PC1)	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
	PCS				
NLvsJDIF	#PCs (95% var.)	1	1	3	5
	MNV (95% var.)	NA	NA	<u>3e-14</u>	<u>5e-09</u>
	Par. test (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
	PCS				

Table 1 – Default table.

```
toLatex(mic,
        caption = "Booktabs.", booktabs = T)
```













Comp.	Data	Outputs			
		out1	out2	out3	out4
NLvsJOK	#PCs (95% var.)	5	3	7	10
	MNV (95% var.)	0.323	0.420	0.061	<u>0.026</u>
	Par. test (PC1)	0.821	0.470	0.971	<u>0.473</u>
	Non-par. test (PC1)	1.000	0.579	0.796	0.393
	PCS				
NLvsJNS	#PCs (95% var.)	3	2	4	2
	MNV (95% var.)	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
	Par. test (PC1)	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
	PCS				
NLvsJDIF	#PCs (95% var.)	1	1	3	5
	MNV (95% var.)	NA	NA	<u>3e-14</u>	<u>5e-09</u>
	Par. test (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
	PCS				

Table 2 – Booktabs.

```
toLatex(mic,
        booktabs = T, labels_cmp_show = F,
        caption = "No comparison label.")
```













Data	Outputs			
	out1	out2	out3	out4
#PCs (95% var.)	5	3	7	10
MNV (95% var.)	0.323	0.420	0.061	0.026
Par. test (PC1)	0.821	0.470	0.971	0.473
Non-par. test (PC1)	1.000	0.579	0.796	0.393
PCS				
#PCs (95% var.)	3	2	4	2
MNV (95% var.)	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
Par. test (PC1)	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
Non-par. test (PC1)	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
PCS				
#PCs (95% var.)	1	1	3	5
MNV (95% var.)	NA	NA	<u>3e-14</u>	<u>5e-09</u>
Par. test (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
Non-par. test (PC1)	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
PCS				

Table 3 – No comparison label.

```

toLatex(mic,
booktabs = T, labels_col_show = F,
caption = "No data label.")

```













Comp.	Outputs			
	out1	out2	out3	out4
NLvsJOK	5	3	7	10
	0.323	0.420	0.061	0.026
	0.821	0.470	0.971	0.473
	1.000	0.579	0.796	0.393
				
NLvsJNS	3	2	4	2
	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
				
NLvsJDIF	1	1	3	5
	NA	NA	<u>3e-14</u>	<u>5e-09</u>
	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
				

Table 4 – No data label.

```

toLatex(mic,
  booktabs = T, labels_cmp_show = F, labels_col_show = F,
  caption = "No data and comparison labels.")

```













Outputs			
out1	out2	out3	out4
5	3	7	10
0.323	0.420	0.061	0.026
0.821	0.470	0.971	0.473
1.000	0.579	0.796	0.393
			
3	2	4	2
<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
			
1	1	3	5
NA	NA	<u>3e-14</u>	<u>5e-09</u>
<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
			

Table 5 – No data and comparison labels.

```

toLatex(mic,
  tag_comp = "Comparisons", tag_data = "What?",
  tag_outputs = "Outs.",
  data_labels = c("No. PCs", "MANOVA", "$t$-test",
    "Mann-Whitney", "PC1 vs PC2"),
  caption = "Alternative header tags and data labels.")

```













Comparisons	What?	Outs.			
		out1	out2	out3	out4
NLvsJOK	No. PCs	5	3	7	10
	MANOVA	0.323	0.420	0.061	0.026
	<i>t</i> -test	0.821	0.470	0.971	0.473
	Mann-Whitney	1.000	0.579	0.796	0.393
	PC1 vs PC2				
NLvsJNS	No. PCs	3	2	4	2
	MANOVA	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
	<i>t</i> -test	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	Mann-Whitney	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
	PC1 vs PC2				
NLvsJDIF	No. PCs	1	1	3	5
	MANOVA	NA	NA	<u>3e-14</u>	<u>5e-09</u>
	<i>t</i> -test	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Mann-Whitney	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
	PC1 vs PC2				

Table 6 – Alternative header tags and data labels.

```
toLatex(mic,
        label_row_show = F,
        caption = "Do not show outputs tag.")
```













Comp.	Data	out1	out2	out3	out4
NLvsJOK	#PCs (95% var.)	5	3	7	10
	MNV (95% var.)	0.323	0.420	0.061	<u>0.026</u>
	Par. test (PC1)	0.821	0.470	0.971	<u>0.473</u>
	Non-par. test (PC1)	1.000	0.579	0.796	0.393
	PCS				
NLvsJNS	#PCs (95% var.)	3	2	4	2
	MNV (95% var.)	<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
	Par. test (PC1)	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
	PCS				
NLvsJDIF	#PCs (95% var.)	1	1	3	5
	MNV (95% var.)	NA	NA	<u>3e-14</u>	<u>5e-09</u>
	Par. test (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Non-par. test (PC1)	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
	PCS				

Table 7 – Do not show outputs tag.


```

toLatex(mic,
  booktabs = T, labels_cmp_show = F,
  labels_col_show = F, label_row_show = F,
  caption = paste0("No data and comparison labels and ",
    "no outputs tag, with booktabs."))

```













out1	out2	out3	out4
5	3	7	10
0.323	0.420	0.061	0.026
0.821	0.470	0.971	0.473
1.000	0.579	0.796	0.393
			
3	2	4	2
<u>2e-09</u>	0.032	<u>8e-07</u>	<u>6e-18</u>
<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
<u>1e-05</u>	<u>0.009</u>	<u>0.001</u>	<u>1e-05</u>
			
1	1	3	5
NA	NA	<u>3e-14</u>	<u>5e-09</u>
<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>	<u>1e-05</u>
			

Table 8 – No data and comparison labels and no outputs tag, with booktabs.

```

toLatex(mic,
  data_show = c("parp-1", "parp-2", "sep",
    "aparp-1", "aparp-2", "sep",
    "varexp-1", "varexp-2"),
  caption = "Different types of data, with separators.")

```

Comp.	Data	Outputs			
		out1	out2	out3	out4
NLvsJOK	Par. test (PC1)	0.821	0.470	0.971	0.473
	Par. test (PC2)	0.184	0.182	0.211	0.837
	Par. test* (PC1)	1.000	0.535	1.000	1.000
	Par. test* (PC2)	0.818	1.000	0.763	1.000
	% var. (PC1)	65.7	87.9	55.4	39.2
	% var. (PC2)	22.4	5.1	27.6	23.8
NLvsJNS	Par. test (PC1)	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	Par. test (PC2)	<u>0.044</u>	<u>0.700</u>	<u>0.003</u>	<u>0.799</u>
	Par. test* (PC1)	<u>5e-06</u>	<u>0.010</u>	<u>0.002</u>	<u>2e-18</u>
	Par. test* (PC2)	0.108	1.000	<u>0.007</u>	1.000
	% var. (PC1)	52.1	93.2	50.0	90.8
	% var. (PC2)	40.6	2.8	36.8	5.0
NLvsJDIF	Par. test (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Par. test (PC2)	0.668	0.458	0.976	0.592
	Par. test* (PC1)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	Par. test* (PC2)	1.000	1.000	1.000	1.000
	% var. (PC1)	97.9	98.8	78.4	85.6
	% var. (PC2)	1.4	0.6	14.6	3.6

Table 9 – Different types of data, with separators.

```

toLatex(mic,
  booktabs = T,
  data_show = c("parp-1", "parp-2", "sep",
    "aparp-1", "aparp-2", "sep",
    "varexp-1", "varexp-2"),
  data_labels = c("$t$-test 1", "$t$-test 2",
    "$t$-test 1 (wb)", "$t$-test 2 (wb)",
    "Var 1", "Var 2"),
  caption = paste0("Different types of data, booktabs, ",
    "custom data labels."))

```

Comp.	Data	Outputs			
		out1	out2	out3	out4
NLvsJOK	<i>t</i> -test 1	0.821	0.470	0.971	0.473
	<i>t</i> -test 2	0.184	0.182	0.211	0.837
	<i>t</i> -test 1 (wb)	1.000	0.535	1.000	1.000
	<i>t</i> -test 2 (wb)	0.818	1.000	0.763	1.000
	Var 1	65.7	87.9	55.4	39.2
	Var 2	22.4	5.1	27.6	23.8
NLvsJNS	<i>t</i> -test 1	<u>3e-06</u>	<u>0.009</u>	<u>0.001</u>	<u>2e-18</u>
	<i>t</i> -test 2	<u>0.044</u>	<u>0.700</u>	<u>0.003</u>	<u>0.799</u>
	<i>t</i> -test 1 (wb)	<u>5e-06</u>	<u>0.010</u>	<u>0.002</u>	<u>2e-18</u>
	<i>t</i> -test 2 (wb)	<u>0.108</u>	<u>1.000</u>	<u>0.007</u>	<u>1.000</u>
	Var 1	52.1	93.2	50.0	90.8
	Var 2	40.6	2.8	36.8	5.0
NLvsJDIF	<i>t</i> -test 1	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	<i>t</i> -test 2	<u>0.668</u>	<u>0.458</u>	<u>0.976</u>	<u>0.592</u>
	<i>t</i> -test 1 (wb)	<u>7e-17</u>	<u>7e-11</u>	<u>2e-15</u>	<u>2e-09</u>
	<i>t</i> -test 2 (wb)	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>
	Var 1	97.9	98.8	78.4	85.6
	Var 2	1.4	0.6	14.6	3.6

Table 10 – Different types of data, booktabs, custom data labels.

```

toLatex(mic,
  orientation = F,
  data_labels = c("NoPCs", "MNV", "$t$", "MW", NA),
  scoreplot_before =
    "\\raisebox{-.5\\height}{\\resizebox {0.7cm} {0.7cm} {" ,
  caption = paste0("Transposed table with score plots and ",
    "NA in one of the data labels (such ",
    "that a default should be used)."))

```













Comp.	Outputs	Data				
		NoPCs	MNV	t	MW	PCS
NLvsJOK	out1	5	0.323	0.821	1.000	
	out2	3	0.420	0.470	0.579	
	out3	7	0.061	0.971	0.796	
	out4	10	<u>0.026</u>	0.473	0.393	
NLvsJNS	out1	3	<u>2e-09</u>	<u>3e-06</u>	<u>1e-05</u>	
	out2	2	<u>0.032</u>	<u>0.009</u>	<u>0.009</u>	
	out3	4	<u>8e-07</u>	<u>0.001</u>	<u>0.001</u>	
	out4	2	<u>6e-18</u>	<u>2e-18</u>	<u>1e-05</u>	
NLvsJDIF	out1	1	NA	<u>7e-17</u>	<u>1e-05</u>	
	out2	1	NA	<u>7e-11</u>	<u>1e-05</u>	
	out3	3	<u>3e-14</u>	<u>2e-15</u>	<u>1e-05</u>	
	out4	5	<u>5e-09</u>	<u>2e-09</u>	<u>1e-05</u>	

Table 11 – Transposed table with score plots and NA in one of the data labels (such that a default should be used).

```

toLatex(mic,
  orientation = F,
  booktabs = T,
  data_show = c("npcs-1", "mnvp-1", "parp-1", "nparp-1"),
  data_labels = c("NoPCs", "MNV", "$t$", "MW"),
  caption = paste0("Transposed table, without score ",
    "plots, with booktabs."))

```

Comp.	Outputs	Data			
		NoPCs	MNV	t	MW
NLvsJOK	out1	5	0.323	0.821	1.000
	out2	3	0.420	0.470	0.579
	out3	7	0.061	0.971	0.796
	out4	10	<u>0.026</u>	0.473	0.393
NLvsJNS	out1	3	<u>2e-09</u>	<u>3e-06</u>	<u>1e-05</u>
	out2	2	<u>0.032</u>	<u>0.009</u>	<u>0.009</u>
	out3	4	<u>8e-07</u>	<u>0.001</u>	<u>0.001</u>
	out4	2	<u>6e-18</u>	<u>2e-18</u>	<u>1e-05</u>
NLvsJDIF	out1	1	NA	<u>7e-17</u>	<u>1e-05</u>
	out2	1	NA	<u>7e-11</u>	<u>1e-05</u>
	out3	3	<u>3e-14</u>	<u>2e-15</u>	<u>1e-05</u>
	out4	5	<u>5e-09</u>	<u>2e-09</u>	<u>1e-05</u>

Table 12 – Transposed table, without score plots, with booktabs.

```

toLatex(mic,
  orientation = F,
  booktabs = T,
  pval_params = list(minval = 1e-6, na_str = "$\\times$"),
  data_show = c("npcs-1", "mnvp-1", "parp-1", "nparp-1"),
  data_labels = c("NoPCs", "MNV", "$t$", "MW"),
  labels_cmp_show = F, labels_col_show = F,
  label_row_show = F,
  caption = paste0("Transposed table: without score ",
    "plots, with booktabs, custom ",
    "p-value parameters.")

```

NoPCs	MNV	t	MW
5	0.323	0.821	1.000
3	0.420	0.470	0.579
7	0.061	0.971	0.796
10	0.026	0.473	0.393
3	$\leq 1e-06$	$3e-06$	$1e-05$
2	0.032	0.009	0.009
4	$\leq 1e-06$	0.001	0.001
2	$\leq 1e-06$	$\leq 1e-06$	$1e-05$
1	\times	$\leq 1e-06$	$1e-05$
1	\times	$\leq 1e-06$	$1e-05$
3	$\leq 1e-06$	$\leq 1e-06$	$1e-05$
5	$\leq 1e-06$	$\leq 1e-06$	$1e-05$

Table 13 – Transposed table: without score plots, with booktabs, custom p-value parameters.

```

toLatex(mic,
  orientation = F,
  booktabs = T,
  data_show = c("parp-1", "parp-2", "sep",
    "aparp-1", "aparp-2", "sep",
    "varexp-1", "varexp-2"),
  data_labels = c("$t_1$", "$t_2$",
    "$t_1\\ast$", "$t_2\\ast$",
    "$V_1$", "$V_2$"),
  caption = paste0("Transposed table, different types ",
    "of data, booktabs, ",
    "custom data labels."))

```

Comp.	Outputs	Data					
		t_1	t_2	t_1^*	t_2^*	V_1	V_2
NLvsJOK	out1	0.821	0.184	1.000	0.818	65.7	22.4
	out2	0.470	0.182	0.535	1.000	87.9	5.1
	out3	0.971	0.211	1.000	0.763	55.4	27.6
	out4	0.473	0.837	1.000	1.000	39.2	23.8
NLvsJNS	out1	<u>3e-06</u>	0.044	<u>5e-06</u>	0.108	52.1	40.6
	out2	<u>0.009</u>	0.700	<u>0.010</u>	1.000	93.2	2.8
	out3	<u>0.001</u>	<u>0.003</u>	<u>0.002</u>	<u>0.007</u>	50.0	36.8
	out4	<u>2e-18</u>	0.799	<u>2e-18</u>	1.000	90.8	5.0
NLvsJDIF	out1	<u>7e-17</u>	0.668	<u>7e-17</u>	1.000	97.9	1.4
	out2	<u>7e-11</u>	0.458	<u>7e-11</u>	1.000	98.8	0.6
	out3	<u>2e-15</u>	0.976	<u>2e-15</u>	1.000	78.4	14.6
	out4	<u>2e-09</u>	0.592	<u>2e-09</u>	1.000	85.6	3.6

Table 14 – Transposed table, different types of data, booktabs, custom data labels.

```

toLatex(mic[[1, 1]],
        orientation = F,
        labels_cmp_show = F,
        label_row_show = F,
        booktabs = T,
        data_show = c("npcs-1", "mnvp-1", "parp-1", "nparp-1", "scoreplot"),
        data_labels = c("NoPCs", "MNV", "$t$", "MW", "Scores"),
        caption = paste0("Table with a single cmpoutput object.))

```


Outputs	NoPCs	MNV	t	MW	Scores
out1	5	0.323	0.821	1.000	

Table 15 – Table with a single cmpoutput object.