

Natural Tables in ConT_EXt

Examples

1	2/3		4
	2	3	
	2	3	
1/2/3			4
1	2	3	4

```

\begin{table}
\begin{tr}
\begin{td}[nr=3] 1 \end{td}
\begin{td}[nc=2] 2/3 \end{td}
\begin{td}[nr=3] 4 \end{td}
\end{tr}
\begin{tr}
\begin{td} 2 \end{td}
\begin{td} 3 \end{td}
\end{tr}
\begin{tr}
\begin{td} 2 \end{td}
\begin{td} 3 \end{td}
\end{tr}
\begin{tr}
\begin{td}[nc=3] 1/2/3 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\begin{tr}
\begin{td} 1 \end{td}
\begin{td} 2 \end{td}
\begin{td} 3 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\end{table}

```

1	2	3	4
1	2/3	4	
	2/3		
	2/3		

```

\setupTABLE[1,4][2][background=color,backgroundcolor=red]
\begin{TABLE}
\begin{bTR} \begin{bTD} 1 \end{bTD} \begin{eTD} \begin{bTD} 2 \end{bTD} \begin{eTD} \begin{bTD} 3 \end{bTD} \begin{eTD} \begin{bTD} 4 \end{bTD} \end{eTD} \end{bTR}
\begin{bTR} \begin{bTD}[nr=3] 1 \end{bTD} \begin{eTD} \begin{bTD}[nc=2] 2/3 \end{bTD} \begin{eTD} \begin{bTD}[nr=3] 4 \end{bTD} \end{eTD} \end{bTR}
\begin{bTR} \begin{bTD} \begin{bTD}[nc=2] 2/3 \end{bTD} \end{bTD} \end{bTR}
\begin{bTR} \begin{bTD} \begin{bTD}[nc=2] 2/3 \end{bTD} \end{bTD} \end{bTR}
\end{TABLE}

```

1	2	3	4
1	$\frac{2}{3}$		4
1			4
1	2	3	4

```

\begin{table}[align={middle,lohi}]
\begin{tr}
\begin{td} 1 \end{td}
\begin{td} 2 \end{td}
\begin{td} 3 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\begin{tr}
\begin{td} 1 \end{td}
\begin{td}[nr=2,nc=2,color=red] 2/3 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\begin{tr}
\begin{td} 1 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\begin{tr}
\begin{td} 1 \end{td}
\begin{td} 2 \end{td}
\begin{td} 3 \end{td}
\begin{td} 4 \end{td}
\end{tr}
\end{table}

```

aa	xx	cc	
bb		dd	

aa	xx	cc	yy
bb		dd	

```

\hbox \bgroup \ignorespaces

\begin{table}
\begin{tbl_struct}
\begin{tbl_header}
\begin{tbl_info cols=4}

```

a	bb	ccc	dd	e
a	bb	ccc	dd	e
a	bb	ccc	dd	e
a	bb	ccc	dd	e
a	bb	ccc	dd	e
a	bb	ccc	dd	e
a	bb	ccc	dd	e

```

\setupTABLE[column][odd][background=color,backgroundcolor=red]
\setupTABLE[row][odd][background=color,backgroundcolor=blue]
\setupTABLE[even][odd][background=color,backgroundcolor=red]

\bTABLE
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\bTR \bTD a \eTD \bTD bb \eTD \bTD ccc \eTD \bTD dd \eTD \bTD e \eTD \eTR
\endTABLE

```

aa	bbb	cc	d	eeee
aa	bbb	cc	d	eeee
aa	bbb	cc	d	eeee

aa	bbb	cc	d	eeee
aa	bbb	cc	d	eeee
aa	bbb	cc	d	eeee

```
\hbox \bgroup \ignorespaces
```

```
\bTABLE
```

```
\setupTABLE[column][1][width=2cm]
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\eTABLE
```

```
\unskip \quad \ignorespaces
```

```
\bTABLE
```

```
\setupTABLE[column][width=3em]
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD bbb \eTD \bTD cc \eTD \bTD d \eTD \bTD eeee \eTD \eTR
```

```
\eTABLE
```

```
\unskip \egroup
```

					aa	xx	bb	cc					
aa	xx	bb	cc		aa	xx	bb	cc	aa	xx	bb	cc	
aa		xx	bb	cc					aa	xx	bb	cc	

```
\hbox \bgroup \ignorespaces
```

```
\bTABLE
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR
```

```
\eTABLE
```

```
\unskip \quad \ignorespaces
```

```
\bTABLE
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR \bTR \eTR
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR \bTR \eTR
```

```
\eTABLE
```

```
\unskip \quad \ignorespaces
```

```
\bTABLE
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR \bTR \eTR
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR
```

```
\eTABLE
```

```
\unskip \quad \ignorespaces
```

```
\bTABLE
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR
```

```
\bTR \bTD aa \eTD \bTD[nr=2] xx \eTD \bTD bb \eTD \bTD cc \eTD \eTR \bTR \eTR
```

```
\eTABLE
```

```
\unskip \egroup
```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.

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```
\startuniqueMPgraphic{crossed}
  path p ; p := unitsquare xscaled \overlaywidth yscaled \overlayheight ;
  fill p withcolor \MPcolor{red} ;
  drawoptions (withpen pencircle scaled 2pt withcolor \MPcolor{blue}) ;
  draw p ; draw llcorner p--urcorner p ; draw ulcorner p--lrcorner p ;
\stopuniqueMPgraphic

\defineoverlay[crossed][\uniqueMPgraphic{crossed}]

\bTABLE[width=.2\textwidth,background=crossed,frame=off]
\bTR \bTD[align=left] \getbuffer[knuth-1] \eTD
      \bTD[align=middle] \getbuffer[knuth-1] \eTD
      \bTD[align=right] \getbuffer[knuth-1] \eTD \eTR
\eTABLE
```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.

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```
\startuniqueMPgraphic{fill}
  path p ; p := unitsquare xscaled \overlaywidth yscaled \overlayheight ;
  fill p withcolor \MPcolor{red} ;
\stopuniqueMPgraphic

\startuniqueMPgraphic{cross}
  path p ; p := unitsquare xscaled \overlaywidth yscaled \overlayheight ;
  drawoptions (withpen pencircle scaled 2pt withcolor \MPcolor{gray}) ;
  draw llcorner p--urcorner p ; draw ulcorner p--lrcorner p ;
  draw p withpen pencircle scaled 2pt withcolor \MPcolor{blue} ;
\stopuniqueMPgraphic

\defineoverlay[fill] [\uniqueMPgraphic{fill}]
\defineoverlay[cross] [\uniqueMPgraphic{cross}]

\begin{table}[width=.2\textwidth,background={fill,foreground,cross},frame=off]
\begin{tr}
\begin{td}[align=left] \getbuffer[knuth-1] \eTD
\begin{td}[align=middle] \getbuffer[knuth-1] \eTD
\begin{td}[align=right] \getbuffer[knuth-1] \eTD \eTR
\end{tr}
\end{table}
```

first	alpha	one
second	beta	two
third	gamma	three

```
\setupTABLE[row][odd][background=color,backgroundcolor=red,frame=off]
\setupTABLE[row][even][background=color,backgroundcolor=gray,frame=off]

\begin{table}
\tr
 first | $\alpha$ | one |  |

\tr
 second | $\beta$ | two |  |

\tr
 third | $\gamma$ | three |  |

\end{table}
```

a	α	i	1
b	β	ii	2
c	γ	iii	3

```
\setupTABLE[background=color,backgroundcolor=red,frame=off]
\setupTABLE[column] [2] [backgroundcolor=black,color=white]

\begin{table}
\begin{tabletr}
\begin{tabletd} a \end{tabletd} \begin{tabletd}  $\alpha$  \end{tabletd} \begin{tabletd} i \end{tabletd} \begin{tabletd} 1 \end{tabletd} \end{tabletr}
\begin{tabletr}
\begin{tabletd} b \end{tabletd} \begin{tabletd}  $\beta$  \end{tabletd} \begin{tabletd} ii \end{tabletd} \begin{tabletd} 2 \end{tabletd} \end{tabletr}
\begin{tabletr}
\begin{tabletd} c \end{tabletd} \begin{tabletd}  $\gamma$  \end{tabletd} \begin{tabletd} iii \end{tabletd} \begin{tabletd} 3 \end{tabletd} \end{tabletr}
\end{table}
```


Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	first
The separation of any of these four components would have hurt $\text{\TeX}$ significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	The separation of any of these four components would have hurt $\text{\TeX}$ significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	second

```

\begin{table}
\tr
\td \getbuffer[knuth-1] \td
\td \getbuffer[knuth-1] \td \td first \td \tr
\tr
\td \getbuffer[knuth-2] \td
\td \getbuffer[knuth-2] \td \td second \td \tr
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	first quote
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	second quote
But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.	third quote

```

\begin{table}
\setupTABLE[background=color,backgroundcolor=red,color=gray,frame=off]
\setupTABLE[column] [last] [align={middle,lohi}]
\setupTABLE[1] [2]   [backgroundcolor=gray,color=red]
\setupTABLE[2] [1,3] [backgroundcolor=gray,color=red]
\begin{tblr} \tblrcell[knuth-1] \tblrtd first quote \tblrtd \tblrtr
\begin{tblr} \tblrtd[knuth-2] \tblrtd second quote \tblrtd \tblrtr
\begin{tblr} \tblrtd[knuth-3] \tblrtd third quote \tblrtd \tblrtr
\end{tblr}
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	first
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	second

```

\begin{table}
\tr
\tr
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	first
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	second
But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.	third

```

\begin{table}
\tr
\tr
\tr
\tr
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.
But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.	Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.

```

\begin{table}
\tr \td[nc=2] \getbuffer{knuth-1} \td \tr
\tr \td \getbuffer{knuth-2} \td \td \getbuffer{knuth-2} \td \tr
\tr \td \getbuffer{knuth-3} \td \td \getbuffer{knuth-1} \td \tr
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer must also be the first user. The separation of any of these four components would have hurt T_EX significantly. If I had not participated fully in all these activities, why they were important.

But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, it must be able to evolve without the designer's direct involvement.

```
\bTABLE
\bTR \bTD[nc=5] \getbuffer[knuth-1] \eTD \eTR
\bTR \bTD[nc=2] \getbuffer[knuth-2] \eTD \bTD[nc=3] \getbuffer[knuth-2] \eTD \eTR
\bTR \bTD[nc=3] \getbuffer[knuth-3] \eTD \bTD[nc=2] \getbuffer[knuth-1] \eTD \eTR
\eTABLE
```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.	
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.	The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.
But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.	Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.

```

\begin{table}[width=.5\hsize]
\begin{tr}
\begin{td}[nc=2] \getbuffer{knuth-1}
\end{td}
\end{tr}
\begin{tr}
\begin{td} \getbuffer{knuth-2}
\end{td}
\begin{td} \getbuffer{knuth-2}
\end{td}
\end{tr}
\begin{tr}
\begin{td} \getbuffer{knuth-3}
\end{td}
\begin{td} \getbuffer{knuth-1}
\end{td}
\end{tr}
\end{table}

```

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.		first	Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.
The separation of any of these four components would have hurt T _E X significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.			
But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.		second	

```

\begin{table}
\begin{tr}
\begin{td}[nc=2] \getbuffer[knuth-1] \end{td}
\begin{td}[nr=2] \getbuffer[knuth-1] \end{td} \end{tr}
\begin{tr}
\begin{td} \getbuffer[knuth-2] \end{td}
\begin{td} first \end{td} \end{tr}
\begin{tr}
\begin{td} \getbuffer[knuth-3] \end{td}
\begin{td} second \end{td} \end{tr}
\end{table}

```

first	second third		fourth
100.000,00	1,0	100.000,00	1,0
10.000,00	10,0	10.000,00	10,0
100,00	1,00	100,00	1,00
10	10,00	10	10,00

```

\setupTABLE [frame=off]
\setupTABLE[column] [first] [leftframe=on]
\setupTABLE[column] [last] [rightframe=on]
\setupTABLE[row] [first] [topframe=on]
\setupTABLE[row] [first,last] [bottomframe=on]

\setupTABLE[column] [1] [alignmentcharacter={.},aligncharacter=yes,align=middle]
\setupTABLE[column] [2] [alignmentcharacter={,},aligncharacter=yes,align=middle]

\bTABLE
\bTR\bTH first \eTH\bTH second \eTH\bTH third \eTH\bTH fourth\eTH\eTR
\bTR\bTD 100.000,00\eTD\bTD 1,0 \eTD\bTD 100.000,00\eTD\bTD 1,0 \eTD\eTR
\bTR\bTD 10.000,00 \eTD\bTD 10,0 \eTD\bTD 10.000,00 \eTD\bTD 10,0 \eTD\eTR
\bTR\bTD 100,00 \eTD\bTD 1,00 \eTD\bTD 100,00 \eTD\bTD 1,00 \eTD\eTR
\bTR\bTD 10 \eTD\bTD 10,00 \eTD\bTD 10 \eTD\bTD 10,00 \eTD\eTR
\eTABLE

```

aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd

```

\definecolor[back-1][r=.8,g=.8,b=.4]
\definecolor[back-2][r=.8,g=.8,b=.6]
\definecolor[back-3][r=.8,g=.8,b=.8]

\setupTABLE[background=color,frame=off,framecolor=white]
\setupTABLE[row][1][rulethickness=2pt,bottomframe=on]
\setupTABLE[row][1][backgroundcolor=back-1]
\setupTABLE[row][odd][backgroundcolor=back-2]
\setupTABLE[row][even][backgroundcolor=back-3]

\begin{table}
\begin{tbl_struct}
\begin{tbl_header}
\begin{tbl_info cols=4}
```

aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd

```

\end{tbl_header}
\begin{tbl_info cols=4}
```

aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd

```

\end{tbl_info}
\begin{tbl_r cells=4 ix=1 maxcspan=1 maxrspan=1 usedcols=4}
```

aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd
aa	bb	cc	dd

```

\end{tbl_r}
\end{tbl_struct}
\end{table}

```

$\frac{1}{1}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$
$\frac{2}{1}$	$\frac{2}{2}$	$\frac{2}{3}$	$\frac{2}{4}$	$\frac{2}{5}$
$\frac{3}{1}$	$\frac{3}{2}$	$\frac{3}{3}$	$\frac{3}{4}$	$\frac{3}{5}$
$\frac{34}{1}$				
$\frac{4}{1}$	$\frac{4}{2}$	$\frac{4}{3}$	$\frac{4}{4}$	$\frac{4}{5}$

```

\setupTABLE[frame=off,width=3em]
\setupTABLE[c][each][align={middle,lohi}]
\setupTABLE[r][1,4][topframe=on]
\setupTABLE[r][3,4][bottomframe=on]
\setupTABLE[1,4][2][topframe=on,bottomframe=on]
\setupTABLE[2][2][topframe=on]
\setupTABLE[3][2][bottomframe=on]

\begin{table}
\tr\td1/1\td\td1/2\td\td1/3\td\td1/4\td\td1/5\td\tr
\tr\td2/1\td\td2/2\td\td2/3\td\td2/4\td\td2/5\td\tr
\tr\td[nr=2]3/1 34/1 4/1\td3/2\td3/3\td3/4\td3/5\td\tr
\tr\td4/2\td4/3\td4/4\td4/5\td\tr
\end{table}

```

oops	oops	oops
oops	oops	oops
oops	oops	oops

```

\defineTABLEsetup [xx] [foregroundColor=red]
\defineTABLEsetup [zz] [backgroundColor=blue]
\beginTABLE
  \bTR      \bTD      oops \eTD  \bTD oops \eTD \bTDs[zz] oops \eTDs \eTR
    \bTR      \bTDs[xx] oops \eTDs \bTD oops \eTD \bTD      oops \eTD  \eTR
      \bTRs[xx] \bTD      oops \eTD  \bTD oops \eTD \bTDs[zz] oops \eTDs \eTRs
\endTABLE

```