tbl.typ: a tbl(1)-like preprocessor for Typst and tablex.typ

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Examples

Example 1: adapted from [1]

Statistic

 $1{,}212\;$ sq. mi.

591,004 sq. mi.

3,710 mi.

20,320 ft.

- 282 ft.

Example 2: adapted from [2, p. 41]

```
```tbl
ссс
ll ne .
 Fact
 Location
Fact|Location|Statistic
 Largest state
 Alaska
Largest state|Alaska|591,004 sq. mi.
 Smallest state
 Rhode Island
Smallest state|Rhode Island|1,212 sq. mi.
 Longest river
 Mississippi-Missouri
 Highest mountain
 Mount McKinley, AK
Longest river|Mississippi-Missouri|3,710 mi.
 Lowest point
 Death Valley, CA
Highest mountain | Mount McKinley, AK | 20,320 ft.
Lowest point|Death Valley, CA|-- 282 ft.
```

#### Example 3: adapted from [1]

```
```tbl
r| l
r n.
                                                                               software
                                                                                        version
software|version
                                                                                  AFL
                                                                                             2.39b
                                                                                 Mutt
                                                                                           1.8.0
AFL|2.39b
                                                                                 Ruby
                                                                                          1.8.7.374
Mutt|1.8.0
                                                                              TeX Live
                                                                                          2015
Ruby | 1.8.7.374
TeX Live | 2015
```

Example 4: adapted from [2, p. 43]

```
cf(Courier New) s s s
c | cs s
c | cs s
c |c|c|c
c |c|c|c
                                                                           Composition of Foods
l |n |ne |ne.
                                                                                    Percent by Weight
Composition of Foods
                                                                       Food
                                                                                Protein
Food|Percent by Weight
                                                                    Apples
                                                                                    .4
\^|_
                                                                    Halibut
                                                                                  18.4
\^|Protein|Fat|Carbo-
                                                                    Lima beans
                                                                                   7.5
\^|\^|\^|hydrate
                                                                    Milk
                                                                                   3.3
                                                                    Mushrooms
                                                                                   3.5
Apples | .4 | .5 | 13.0
                                                                    Rye bread
                                                                                   9.0
Halibut|18.4|5.2|...
Lima beans | 7.5 | .8 | 22.0
Milk|3.3|4.0|5.0
Mushrooms | 3.5 | .4 | 6.0
Rye bread | 9.0 | .6 | 52.7
```

Example 5: adapted from [2, p. 42]

```
```tbl
C S S
c | c | c
l | l | ne .
Major New York Bridges
Bridge|Designer|Length
Brooklyn|J . A . Roebling|1595
Manhattan|G . Lindenthal|1470
Williamsburg|L . L . Buck|1600
Queensborough | Palmer & | 1182
|Hornbostel
||1380
Triborough | 0 . H . Ammann | _
||383
Bronx Whitestone | 0 . H . Ammann | 2300
Throgs Neck|0 . H . Ammann|1800
George Washington | 0 . H . Ammann | 3500
```

Major New York Bridges					
Bridge	Designer	Length			
Brooklyn	J . A . Roebling	1595			
Manhattan	G . Lindenthal	1470			
Williamsburg	L . L . Buck	1600			
Queensborough	Palmer &	1182			
	Hornbostel				
		1380			
Triborough	O . H . Ammann				
_		383			
Bronx Whitestone	O . H . Ammann	2300			
Throgs Neck	O . H . Ammann	1800			
George Washington	O . H . Ammann	3500			

Carbo-

hydrate

13.0

22.0

5.0

6.0

52.7

Fat

.5

5.2

.8

4.0

.4

.6

#### Example 6: adapted from [1]

```
```tbl
rb c lb
r ci l.
r|center|l
ri|ce|le
right|c|left
```

recenter l
ri ce le
right c left
```

#### Example 7: adapted from [3]

```
```tbl
Cf(BI) Cf(BI) Cf(B), C C Cu.
                                                                              n \times n difference
n|n*#sym.times;*n|difference
                                                                           1
                                                                                1
                                                                                         3
1|1
                                                                           2
                                                                                4
                                                                                         5
2|4|3
                                                                           3
                                                                                9
                                                                                         7
3|9|5
                                                                               16
                                                                                         9
4|16|7
                                                                               25
                                                                           5
                                                                                        11
5|25|9
                                                                           6
                                                                               36
6|36|11
```

Example 8: adapted from [2, p. 42]

```
```tbl
СС
np(-2) | n | .
|Stack
 Stack
1|46
 46
 23
2 | 23
 3
 15
3 | 15
 6.5
 2.1
4|6.5
5|2.1
```

#### Example 9: adapted from [2, p. 37]

```
```tbl
n.
                                                                                     13
13
                                                                                      4.2
4.2
                                                                                   26.4.12
26.4.12
                                                                                     26.4. 12
26.4. 12
                                                                                  26.4 .12
26.4 .12
                                                                                     abc
abc
                                                                                    abc
abc\&
                                                                                     433.22
43\&3.22
                                                                                    749.12
749.12
```

Example 10: adapted from [2, p. 41]

```
c s s
ссс
                                                                           AT&T Common Stock
n n ne .
                                                                        Year
                                                                                 Price
                                                                                          Dividend
AT&T Common Stock
                                                                        1984
                                                                                  15-20
                                                                                           $1.20
Year|Price|Dividend
                                                                                  19-25
                                                                                            1.20
                                                                           5
1984|15-20|\$1.20
                                                                           6
                                                                                  21-28
                                                                                            1.20
5|19-25|1.20
                                                                           7
                                                                                  20-36
                                                                                            1.20
6|21-28|1.20
                                                                           8
                                                                                  24-30
                                                                                            1.20
7|20-36|1.20
                                                                           9
                                                                                  29-37
                                                                                             .30*
8|24-30|1.20
9|29-37|.30\*
```

Example 11

```
```tbl
cb cb
c c.
 Grade
 Points
Grade|Points
 A
 510
 В
 450
A|510
 С
 390
B|450
 D
 330
C|390
D|330
```

#### Example 12: adapted from [2, p. 44]

```
```tbl
cf(I) s s
c cw(lin) cw(lin)
ltp(9) ltp(9) ltp(9).
New York Area Rocks
Era|Formation|Age (years)
Precambrian|Reading Prong|>1 billion
Paleozoic|Manhattan Prong|400 million
Mesozoic|T{
#set text(hyphenate: true, overhang: true)
Newark Basin, incl.
Stockton, Lockatong, and Brunswick
formations; also Watchungs
and Palisades.
T}|200 million
Cenozoic|Coastal Plain|T{
#set text(hyphenate: true, overhang: true)
#set par(justify: true)
On Long Island 30,000 years;
Cretaceous sediments redeposited
by recent glaciation.
T}
```

New York Area Rocks						
Era	Formation	Age (years)				
Precambrian	Reading Prong	>1 billion				
Paleozoic	Manhattan Prong	400 million				
Mesozoic	Newark Basin,	200 million				
	incl. Stockton,					
	Lockatong, and					
	Brunswick forma-					
	tions; also					
	Watchungs and					
	Palisades.					
Cenozoic	Coastal Plain	On Long Island				
		30,000 years; Cre-				
		taceous sediments				
		redeposited by re-				
		cent glaciation.				

Example 13: adapted from [1]

```
le le7| lw(10).
The fourth line|_|line 1
of this column|=|line 2
determines | \_ | line 3
the column width. |T{
This text is too wide to fit into a column of width 17.
T}|line 4
T{
No break here.
T}||line 5
                  The fourth line
                                                                                              line 1
                  of this column
                                                                                              line 2
                  determines
                                                                                              line 3
                                                        This text is too wide to fit into a
                  the column width.
                                                                                              line 4
                                                        column of width 17.
                  No break here.
                                                                                              line 5
```

Example 14: adapted from [2, p. 45]

```
```tbl
cb s s s s
cp(-2) s s s s
c | c | c | c | c
c | c | c | c | c
r2 | n2 | n2 | n2e | nbe.
Readability of Text
Line Width and Leading for 10-Point Type

Line : Set : 1-Point : 2-Point : 4-Point
Width : Solid : Leading : Leading : Leading
__
9 Pica : 93 : --6.0 : --5.3 : --7.1
14 Pica : 450 : --0.6 : --0.3 : --1.7
19 Pica : 5 : --5.1 : 0.0 : --2.0
31 Pica : 3 : --3.8 : --2.4 : --3.6
43 Pica : 5.1 : --900000.000 : --5.9 : --8.8
```
```

| Readability of Text | | | | | | | |
|---------------------|--|------------|---------|---------|--|--|--|
| | Line Width and Leading for 10-Point Type | | | | | | |
| Line | Set | 1-Point | 2-Point | 4-Point | | | |
| Width | Solid | Leading | Leading | Leading | | | |
| 9 Pica | 93 | -6.0 | -5.3 | -7.1 | | | |
| 14 Pica | 450 | -0.6 | -0.3 | -1.7 | | | |
| 19 Pica | 5 | -5.1 | 0.0 | -2.0 | | | |
| 31 Pica | 3 | -3.8 | -2.4 | -3.6 | | | |
| 43 Pica | 5.1 | -90000.000 | -5.9 | -8.8 | | | |

References

- [1] https://man.openbsd.org/tbl.7
- [2] L. L. Cherry, and M. E. Lesk, "Tbl a program to format tables," in *Unix Res. System*, A. G. Hume, and M. D. McIlroy, Eds., vol. 2, 10th ed., Murray Hill, New Jersey 07974: Holt Rinehart & Winston, pp. 35–51. [Online]. Available: https://9p.io/10thEdMan/tbl.pdf
- [3] https://man7.org/linux/man-pages/man1/tbl.1.html