

rowmantic: Tables row by row

A Typst package for editing tables row-by-row.

The idea is a row-oriented way to input tables, with just a little less syntactical overhead than the usual `table` function in Typst.

The `rowtable` function works like the usual `table` function but takes one markup block ([...]) per row, and the markup is split internally¹ on a delimiter which is `&` by default.

Input: `[A & B & C]`

Table cells (effectively): `..([A], [B], [C])`

For improved table ergonomics, the table sizes the number of columns by the longest row. All rows are effectively completed so that they are of full length. This creates a better the editing experience, as rows can be filled out gradually.

Examples

Document Result

<i>goá</i>	<i>íáu-boē</i>	<i>koat-tēng</i>	<i>tang-sî</i>	<i>boeh</i>	<i>tng-khi</i>
goa ¹	iau ¹ -boe ³	koat ² -teng ³	tang ⁷ -si ⁵	boeh ²	tng ¹ -khi ³
goa ²	iau ² -boe ⁷	koat ⁴ -teng ⁷	tang ¹ -si ⁵	boeh ⁴	tng ² -khi ³
I	not-yet	decide	when	want	return.

"I have not yet decided when I shall return."

Input

```
#{
  set table.hline(stroke: 0.08em)
  show regex("\\d"): super.with(size: 0.8em, typographic: false)
  show table.cell: it => { set text(size: 0.9em) if it.y >= 1; it }
  show table.cell.where(y: 0): emph
  rowtable(
    separator: ",", // configurable separator
    stroke: 0pt,    // pass through table arguments, hlines, cells et.c.
    inset: (x: 0em),
    column-gutter: 0.9em,
    // rows are filled to be equal length after collecting cells
    [goá , íáu-boē , koat-tēng , tang-sî , boeh , tng-khi ],
    [goa1 , iau1-boe3 , koat2-teng3 , tang7-si5 , boeh2 , tng1-khi3 ],
    [goa2 , iau2-boe7 , koat4-teng7 , tang1-si5 , boeh4 , tng2-khi3 ],
    [I , not-yet , decide , when , want , return. ],
    table.hline(),
    // cell that fills remainder of row
    expandcell["I have not yet decided when I shall return."],
  )
}
```

Example from Wikipedia²

¹But shallowly - not looking into styled or nested content

²https://en.wikipedia.org/wiki/Interlinear_gloss

Document Result





Term	Explanation	Assumptions
X	Explanatory variables	Non-random
Y	Y_1, \dots, Y_n observations	Pairwise independent
β	Model parameters	

Input

```
#{
  set table(stroke: none, inset: 0.8em)
  set table.hline(stroke: 0.5pt)
  show table.cell.where(y: 0): strong
  show table.cell.where(x: 0): x => math.bold(math.uptight(x))
  rowtable(
    table.hline(),
    table.header([Term & Explanation          & Assumptions ]),
    table.hline(),
    [$X$          & Explanatory variables          & Non-random ],
    [$Y$          & $Y_1, \dots, Y_n$ observations & *Pairwise independent*],
    [$beta$       & Model parameters              ],
    table.hline(),
  )
}
```

Trying some more difficult examples

Document Result

Literal &	Strong	X-Y
Equation $\pi = 3.1415\dots$	$\int_{\Omega} d\omega$	X&Y
<ul style="list-style-type: none"> A B 	<ol style="list-style-type: none"> A B 	A a B b
Figure 1: Top 	See Figure 1 & Figure 2	 Figure 2: Bot
Nested rowtable 	Nested table 	table.cell
Cell with colspan=2		
Expandcell		the rest
N/A	N/A	N/A

Input

```
#rowtable(
  align: horizon,
  stroke: 0.1pt,
  row-filler: [N/A],
  [Literal \& & *Strong* & *X*--_Y_ ],
  [Equation \ $pi = 3.1415...$ & $ \int_{\Omega} d\omega $ & $X \& Y$],
  [
    - A
    - B
    &
    + A
    + B
    &
    / A: a
    / B: b
  ],
  [
    #{
      set figure.caption(position: top)
      [#figure(rect[A], caption: "Top")<fig1>]
    }
    &
    See @fig1 \& @fig2
    &
    [#figure(rect[B], caption: "Bot")<fig2>]
  ],
  {
    [Nested rowtable \ ]
    rowtable([A & B])
    [&]
    [Nested table \ ]
    table(columns: 2, [A], [B])
    [&]
    table.cell(stroke: 1pt + red)[`table.cell`]
  },
  [#table.cell(fill: yellow.lighten(90%), colspan: 2)[Cell with colspan=2] &#none],
  [#expandcell(fill: yellow.lighten(90%))[Expandcell] & #expandcell[the rest]],
  [&&],
  table.footer([]),
)
```

Double semicolon separator

Document Result

First	This is a literal ;; and ; and , and &
Second; Third	Equation $\pi = 3.1415\dots$

Input

```
#rowtable(  
  separator: ";;",  
  stroke: 0.5pt,  
  [First      ;; This is a literal \;\; and ; and , and & ],  
  [Second; Third ;; Equation  $\pi = 3.1415\dots$ ],  
)
```

Combine with pillar (or other table function)

Use the `table` argument to let `rowtable` pass its result to a different table function rather than the standard one, for example `pillar.table` (shown below) or `zero.ztable`.

Document Result

Isotope	Z	N	Half-life	Mass (Da)	Abundance (%)
¹⁰⁷ Ag	47	60	Stable	106.905 091 5(26)	51.839 ± 0.008
¹⁰⁹ Ag	47	62	Stable	108.904 755 8(14)	48.161 ± 0.008

Input

```
#import "@preview/pillar:0.3.2"  
#set text(font: "Libertinus Serif")  
#show table.cell.where(y: 0): strong  
#rowtable(  
  separator: ",",  
  table: pillar.table,  
  cols: "rCCCCC",  
  format: (auto, ) * 4 + ((uncertainty-mode: "compact"), auto),  
  column-gutter: (0.5em, 0pt),  
  stroke: (x, y) => if y == 0 { (bottom: 0.75pt) },  
  table.header(  
    [Isotope,      Z, N, Half-life, Mass (Da),      Abundance (%) ]),  
  [#super[107]Ag, 47, 60, Stable,      106.9050915(26), 51.839(8) ],  
  [#super[109]Ag, 47, 62, Stable,      108.9047558(14), 48.161(8) ],  
)
```