

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(),
    [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"> 1. A 2. B 	A a B b
Figure 1: Top <div style="border: 1px solid black; display: inline-block; padding: 2px;">A</div>	See Figure 1 & Figure 2	<div style="border: 1px solid black; display: inline-block; padding: 2px;">B</div> Figure 2: Bot
Nested rowtable <div style="display: inline-block; border: 1px solid black; padding: 2px;">A</div> <div style="display: inline-block; border: 1px solid black; padding: 2px;">B</div>	Nested table <div style="display: inline-block; border: 1px solid black; padding: 2px;">A</div> <div style="display: inline-block; border: 1px solid black; padding: 2px;">B</div>	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] &
  #table.cell[--]],
  [#expandcell(fill: yellow.lighten(90%))[Expandcell] & #expandcell[the rest]],
  [&&],
  [],
)
```

Double semicolon separator

Document Result

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

Input

```
#rowtable(  
  separator: ";;",  
  align: horizon,  
  stroke: (x, y) => (y: int(y <= 0) * 0.9pt + 0.1pt, x: 0.1pt),  
  [First      ;; This is a literal \;; and ; and , and & ],  
  [Second; Third  ;; Equation  $\pi = 3.1415\dots$ ],  
  table.hline(stroke: 1pt),  
)
```