

LaTeX::Table

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1 About this document

This document is generated by `generate_examples.pl` from `LATEX::TABLE`.

2 Examples

The first basic example is a small table with two larger columns. `LaTeX::Table` automatically sets the column to `p{5cm}` when a cell in a column has more than 30 characters. `LATEX` generates the nice Table 1.

```
my $header = [ [ 'Character', 'Fullname', 'Voice' ], ];
my $data = [
  [ 'Homer', 'Homer Jay Simpson', 'Dan Castellaneta', ],
  [ 'Marge', 'Marjorie Simpson (ne Bouvier)', 'Julie Kavner', ],
  [ 'Bart', 'Bartholomew Jojo Simpson', 'Nancy Cartwright', ],
  [ 'Lisa', 'Elizabeth Marie Simpson', 'Yeadley Smith', ],
  [
    'Maggie',
    'Margaret Simpson',
    'Elizabeth Taylor, Nancy Cartwright, James Earl Jones, '
    . 'Yeadley Smith, Harry Shearer',
  ],
];
$table = LaTeX::Table->new(
  {
    header => $header,
    data => $data,
    label => 'wrap1',
    caption => 'LaTeX paragraph column attribute.',
  }
);
```

We can use the `tabularx` package to find better column widths than the default 5cm. See Table 2 for the results.

Character	Fullname	Voice
Homer	Homer Jay Simpson	Dan Castellaneta
Marge	Marjorie Simpson (ne Bouvier)	Julie Kavner
Bart	Bartholomew Jojo Simpson	Nancy Cartwright
Lisa	Elizabeth Marie Simpson	Yeadley Smith
Maggie	Margaret Simpson	Elizabeth Taylor, Nancy Cartwright, James Earl Jones,Yeadley Smith, Harry Shearer

Table 1: LaTeX paragraph column attribute.

Character	Fullname	Voice
Homer	Homer Jay Simpson	Dan Castellaneta
Marge	Marjorie Simpson (ne Bouvier)	Julie Kavner
Bart	Bartholomew Jojo Simp- son	Nancy Cartwright
Lisa	Elizabeth Marie Simpson	Yeardley Smith
Maggie	Margaret Simpson	Elizabeth Taylor, Nancy Cartwright, James Earl Jones, Yeardley Smith, Harry Shearer

Table 2: tabularx X column attribute.

```
$table = LaTeX::Table->new(
  {   header      => $header ,
      data         => $data ,
      label        => 'wrap2' ,
      width        => '0.9\textwidth' ,
      width_environment => 'tabularx' ,
      caption      => 'tabularx X column attribute.' ,
  }
);
```

2.1 Table rotate

Table 3 demonstrates table sideways feature. Requires the `rotating` package.

```
$table = LaTeX::Table->new(
  {   header      => $header ,
      data         => $data ,
      label        => 'rotate' ,
      width        => '0.9\textwidth' ,
      width_environment => 'tabularx' ,
      environment  => 'sidewaystable' ,
      caption      => 'tabularx X column attribute.' ,
  }
);
```

2.2 Table width, tabular* environment

Table 4 demonstrates a fixed-width table in the `tabular*` environment. Here, the space between the columns is filled with spaces.

```
$table = LaTeX::Table->new(
  {   header      => $header ,
      data         => $data ,
```

Character	Fullname	Voice
Homer	Homer Jay Simpson	Dan Castellaneta
Marge	Marjorie Simpson (ne Bouvier)	Julie Kavner
Bart	Bartholomew Jojo Simpson	Nancy Cartwright
Lisa	Elizabeth Marie Simpson	Yearley Smith
Maggie	Margaret Simpson	Elizabeth Taylor, Nancy Cartwright, James Earl Jones, Yearley Smith, Harry Shearer

Table 3: tabularx X column attribute.

Name	Beer	Wine
Gnat	per gram	13.651
	each	0.012
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 4: 0.7 of textwidth

```

label          => 'width',
width          => '0.7\textwidth',
caption        => '0.7 of textwidth',
}
);

```

2.3 Callback functions

Callback functions are an easy way of formatting the cells. Note that the prices for Gnat are rounded:

```

my $header = [
  [ Item:2 c , ],
  [ \cmidrule(r){1-2} ],
  [ Animal , Description , Price ]
];

my $data = [
  [ Gnat , per gram , 13.651 ],
  [ , each , 0.012 ],
  [ Gnu , stuffed , 92.59 ],
  [ Emu , stuffed , 33.33 ],
  [ Armadillo , frozen , 8.99 ],
];

my $table = LaTeX::Table->new(
  {
    filename => prices.tex ,
    maincaption => Price List ,
    caption => Try our special offer today! ,
    label => table:prices ,
    position => htb ,
    header => $header ,
    data => $data ,
    callback => sub {
      my ($row, $col, $value, $is_header) = @_;
      if ($col == 2 && !$is_header) {

```

```

        $value = format_price($value , 2,          );
    }
    return $value;
},
});

```

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 5: Price List. Try our special offer today!

3 Themes

For each theme, two example tables are shown, one of type *std*, the standard L^AT_EX table, and one of type *xtab*. Note that the second column is left justified because this column contains numbers and strings, whereas the third column is a number column and therefore right justified.

3.1 Miami Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 6: **Price List.** Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65

Continued on next page

Item		
Animal	Description	Price
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 7: **Price List.** Try our special offer today!

3.2 plain Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 8: Price List. Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01

Continued on next page

Item		
Animal	Description	Price
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 9: Price List. Try our special offer today!

3.3 Zurich Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 10: Price List. Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Continued on next page		

Item		
Animal	Description	Price
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 11: Price List. Try our special offer today!

3.4 Houston Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 12: **Price List.** Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
Continued on next page		

Item		
Animal	Description	Price
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 13: **Price List.** Try our special offer today!

3.5 Dresden Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 14: **Price List.** Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
Continued on next page		

Item		
Animal	Description	Price
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 15: **Price List.** Try our special offer today!

3.6 Berlin Theme

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 16: **Price List.** Try our special offer today!

Item		
Animal	Description	Price
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
Continued on next page		

Item		
Animal	Description	Price
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.59
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 17: **Price List.** Try our special offer today!

4 Version

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