

The Autotable Package

Adrian Rettich

February 26, 2020

1 Synopsis

This package provides a way to generate tabularx style tables with two important additions:

- The ability to generate a fixed number of empty rows by passing said number as an argument.
- The ability to automatically generate as many empty rows as the space on the page allows for.

2 Loaded Packages

Autotable uses `tabularx`, `pgfopts`, `xparse`, `zref-savepos`, `xifthen`, and `pgfplots`.

3 Creating Tables

There are two ways to create an autotable: by using an environment similar to `tabularx`, or by setting up the desired output via a series of commands that are then executed summarily by calling the `\autotable` macro.

3.1 The autotable Environment

This is not yet implemented. I am working on it.

3.2 The autotable Command

`\autocolumn{colspec}[coltitle]` Sets up a single column with column specification *colspec*. The possible specifications are the same as for a `tabularx` environment. The optional *coltitle* is the title of your column. Call this command once for each column you want your table to have.

- `\autocolumns{cols}[titles]` Takes a comma-separated list of column specifications and optionally a comma-separated list of titles. This is essentially a shortcut for multiple `\autocolumn` commands. It is possible to mix both for the same table.
- `\countrows` Activate row counting: the leftmost column of your table will contain the row number.
- `\nocountrows` Deactivate row counting. This is the default.
- `\autotablereset` Reset everything you have set up so far.
- `\autotable{n}`: Create a table with columns according to what you have set up using the previous commands. The table has n rows, plus one row for titles if you provided any titles. If you omit n , the table instead has (optionally a title row plus) as many rows as fit on the current page (possibly 0).

4 Examples

Die Tabellen auf dieser Seite wurden durch folgende Kommandos erzeugt (beachte, dass ich für die ersten beiden nicht explizit angeben musste, wie viele Zeilen ich möchte):

```
\autocolumn{r}
\autocolumns{X,c,c}[Name,ja,nein]
\countlines
\autotable{}
\autotablereset
\autocolumn{X}[Name]
\autocolumn{X}[E-Mail]
\autotable{}
\autotablereset
\autocolumns{X,X,X}
\autotable{3}
```

	Name	ja	nein
1			
2			
3			
4			
5			
6			
7			
8			

Name	E-Mail

Auch wenn ich nach der Liste noch Text stehen habe, berechnet `\autotable{}` die korrekte Anzahl an Zeilen.

5 Options

Autotable accepts no options.

6 License

THE COFFEEWARE LICENSE

Adrian Rettich (adrian.rettich@gmail.com) wrote this file. As long as you retain this notice, you can do whatever you want with this stuff. If we meet in person someday, and you think this stuff is worth it, you are welcome to buy me a coffee in return.