

# stmtabular package description

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These are the tabular definitions for `stmlatex`.

## Contents

<b>1. Usage</b>	<b>1</b>
1.1. Load the whole <code>stmtabular</code> package . . . . .	1
1.1.1. Description . . . . .	1
1.1.2. Options . . . . .	1
<b>2. Column types</b>	<b>2</b>
2.1. p-column type based . . . . .	2
2.2. X-column type based . . . . .	2
<b>A. The code</b>	<b>3</b>
A.1. <code>stmtabular.sty</code> . . . . .	3
A.2. <code>stmtabularcolumntypes.sty</code> . . . . .	5

## 1. Usage

### 1.1. Load the whole `stmtabular` package

#### 1.1.1. Description

This is an interface package which loads date styles and commands commonly required throughout document creation.

By default the package loads

- `stmtabularcolumntypes.sty`

See subsection 1.1.2 for options to change the default package behavior.

### 1.1.2. Options

**Option *columntypes*** This is a boolean option. Expected values are either `true` or `false`. It controls whether to load the predefined column types.

```
\usepackage[columntypes=true|false]{stmtabular}
```

`styles=true` is the default. It is used in case `styles=false` is not set explicitly.

**Option *booktabs*** This is a boolean option. Expected values are either `true` or `false`. It enables and disables the loading of the [booktabs](#) package.

```
\usepackage[booktabs=true|false]{stmtabular}
```

`booktabs=true` is the default. It is used in case `booktabs=false` is not set explicitly.

## 2. Column types

With the option `columntypes=true`, the column type definitions from the [Thesis Template](#) are loaded.

### 2.1. p-column type based

fixed width (L: left)	fixed width (C: center)	fixed width (R: right)
text which is considerably longer than the width of the column	text which is considerably longer than the width of the column	text which is considerably longer than the width of the column

### 2.2. X-column type based

variable (W: left)	variable (Z: center)	variable (Y: right)
text which is considerably longer than the width of the column	text which is considerably longer than the width of the column	text which is considerably longer than the width of the column

## A. The code

### A.1. stmtabular.sty

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This is a interface to all stm tabular definitions
6 %
7 % Usage
8 % - Premble:
9 %   - \usepackage{stmtabular}
10 %
11 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
12 %           Initial draft
13 %
14 % Contact:   Martin Raedel, martin.raedel@dlr.de
15 %           DLR Composite Structures and Adaptive Systems
16 %
17 %           __/|__
18 %           /_/_/_/
19 %           www.dlr.de/fa/en | / DLR
20 %
21 % Copyright (C) 2019-... DLR Composite Structures and Adaptive Systems
22 %
23 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
24 % Content %
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26
27 % Declare that this style file requires at least LaTeX version 2e.
28 \NeedsTeXFormat{LaTeX2e}
29
30 % Provide the name of your page, the date it was last updated, and a
31 % comment about what it's used for
32 \ProvidesPackage{stmtabular}[2019/10/27 STMs custom LaTeX tabular
33 % -----
34 % Options
35 % -----
36
37 % For options
38 \@ifpackageloaded{kvoptions}{\RequirePackage{kvoptions}}%
```

```

39
40 % Option group
41 \SetupKeyvalOptions{%
42   family=stmtabular,%
43   prefix=stmtabular@,%
44   setkeys=\kvsetkeys,%
45 }
46
47 % Items
48 \DeclareBoolOption[true]{columnntypes}
49
50 % Items
51 \DeclareBoolOption[true]{booktabs}
52
53 % Process options
54 \ProcessKeyvalOptions{stmtabular}
55
56 % -----
57 % Modules
58 % -----
59
60 % Load the items
61 \ifstmtabular@booktabs
62   \@ifpackageloaded{booktabs}{}{%
63     \RequirePackage{booktabs}%
64   }%
65 \fi
66
67 % Load the items
68 \ifstmtabular@columnntypes
69   \@ifpackageloaded{stmtabularcolumnntypes}{}{%
70     \RequirePackage{stmtabularcolumnntypes}%
71   }%
72 \fi
73
74 %%%%%%%%%%%
75 % That's it %
76 %%%%%%%%%%%
77
78 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
   this file. LaTeX will ignore anything after this line.
79 \endinput

```

## A.2. stmtabularcolumnntypes.sty

```

1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This is a interface to all stm tabular definitions
6 %
7 % Usage
8 % - Preamble:
9 %   - \usepackage{stmtabularcolumnntypes}
10 %
11 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
12 %               Initial draft
13 %
14 % Contact:   Martin Raedel, martin.raedel@dlr.de
15 %           DLR Composite Structures and Adaptive Systems
16 %
17 %           __/|__
18 %           /_/_/_/_/
19 %           www.dlr.de/fa/en | / DLR
20 %
21 % Copyright (C) 2019-... DLR Composite Structures and Adaptive Systems
22 %
23 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
24 % Content %
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26
27 % Declare that this style file requires at least LaTeX version 2e.
28 \NeedsTeXFormat{LaTeX2e}
29
30 % Provide the name of your page, the date it was last updated, and a
31 % comment about what it's used for
32 \ProvidesPackage{stmtabularcolumnntypes}[2019/10/27 STMs custom LaTeX
33 % tabular column type definitions]
34
35 % -----
36 % Modules
37 % -----
38
39 % For RaggedLeft/RaggedRight/Centering
40 \@ifpackageloaded{ragged2e}{\%
41   \RequirePackage{ragged2e}%
42 }

```

```

41
42 % for X-column
43 \@ifpackageloaded{tabularx}{\%
44   \RequirePackage{tabularx}%
45 }
46
47 % Hide-column: Use this column type to have but not print a complete
48   column
49 % https://tex.stackexchange.com/a/16607
50 \newcolumnntype{H}{>{\setbox0=\hbox\bgroup}c<{\egroup}@{}}
51
52 % Thankfully copied from
53 % https://github.com/pospiech/latex/blob/master/latexthesistemplate/
54   packages/publish/tablestyles.dtx
55 %% centered (X):
56 \newcolumnntype{Z}{>{\centering\arraybackslash\hspace{0pt}}X}
57 %% right (X):
58 \newcolumnntype{Y}{>{\RaggedLeft\arraybackslash\hspace{0pt}}X}
59 %% left (X):
60 \newcolumnntype{W}{>{\RaggedRight\arraybackslash\hspace{0pt}}X}
61 %% left (p):
62 \newcolumnntype{L}[1]{>{\RaggedRight\arraybackslash\hspace{0pt}}p{#1}}
63 %% right (p):
64 \newcolumnntype{R}[1]{>{\RaggedLeft\arraybackslash\hspace{0pt}}p{#1}}
65 %% centered (p):
66 \newcolumnntype{C}[1]{>{\Centering\arraybackslash\hspace{0pt}}p{#1}}
67
68 % That's it
69
70 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
71   this file. LaTeX will ignore anything after this line.
72 \endinput

```