

# stmtabular package description

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These are the tabular definitions for `stmlatex`.

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## 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

- `stmtabularcolumnntypes.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 % - Preamble:
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 Lightweight Systems
16 %
17 % --/|__
18 % /_/_/_/_/
19 % www.dlr.de/sy/en | DLR
20 %
21 % Copyright (C) 2019-... DLR Lightweight 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}[2023/02/12 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 Lightweight Systems
16 %
17 %               __/|__
18 %               /_/_/_/_/
19 %               www.dlr.de/sy/en | / DLR
20 %
21 % Copyright (C) 2019-... DLR Lightweight 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}[2023/02/12 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

```