stmtabular package description

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These are the tabular definitions for `stmlatex`.

Contents

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 subsubsection 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
      comment about what it's used for
31 \ProvidesPackage{stmtabular}[2023/02/12 STMs custom LaTeX tabular
      definitions]
32
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]{columntypes}
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@columntypes
69    \@ifpackageloaded{stmtabularcolumntypes}{}{%
70      \RequirePackage{stmtabularcolumntypes}%
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. stmtabularcolumntypes.sty

```
1  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2  % Header                          %
3  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4  %
5  % This is a interface to all stm tabular definitions
6  %
7  % Usage
8  %  - Preamble:
9  %    - \usepackage{stmtabularcolumntypes}
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
      comment about what it's used for
31 \ProvidesPackage{stmtabularcolumntypes}[2023/02/12 STMs custom LaTeX
      tabular column type definitions]
32
33 % -------------------------
34 % Modules
35 % -------------------------
36
37 % For RaggedLeft/RaggedRight/Centering
38 \@ifpackageloaded{ragged2e}{}{%
39   \RequirePackage{ragged2e}%
40 }
```

```
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
        column
48  % https://tex.stackexchange.com/a/16607
49  \newcolumntype{H}{>{\setbox0=\hbox\bgroup}c<{\egroup}@{}}
50
51  % Thankfully copied from
52  % https://github.com/pospiech/latex/blob/master/latexthesistemplate/
        packages/publish/tablestyles.dtx
53  %% centered (X):
54  \newcolumntype{Z}{>{\centering\arraybackslash\hspace{0pt}}X}
55  %% right (X):
56  \newcolumntype{Y}{>{\RaggedLeft\arraybackslash\hspace{0pt}}X}
57  %% left (X):
58  \newcolumntype{W}{>{\RaggedRight\arraybackslash\hspace{0pt}}X}
59  %% left (p):
60  \newcolumntype{L}[1]{>{\RaggedRight\arraybackslash\hspace{0pt}}p{#1}}
61  %% right (p):
62  \newcolumntype{R}[1]{>{\RaggedLeft\arraybackslash\hspace{0pt}}p{#1}}
63  %% centered (p):
64  \newcolumntype{C}[1]{>{\Centering\arraybackslash\hspace{0pt}}p{#1}}
65
66  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
67  % That's it                     %
68  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
69
70  % Finally, we'll use \endinput to indicate that LaTeX can stop reading
        this file. LaTeX will ignore anything after this line.
71  \endinput
```