

stmdate package description

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v20230212

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These are the date definitions for `stmlatex`. It is build upon the [datetime2](#) package.

Contents

1. Usage	1
1.1. Load the whole <code>stmdate</code> package	1
1.1.1. Description	1
1.1.2. Options	1
1.2. <code>stmdatestyles</code>	2
1.2.1. Description	2
1.2.2. Styles	2
1.3. <code>stmdatecommands</code>	2
1.3.1. Description	2
1.3.2. Command <code>\formatdate</code>	2
A. The code	3
A.1. <code>stmdate.sty</code>	3
A.2. <code>stmdatebase.sty</code>	5
A.3. <code>stmdatecommands.sty</code>	7
A.4. <code>stmdatestyles.sty</code>	9

1. Usage

1.1. Load the whole `stmdate` 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

- `stmdatabase.sty`
- `stmdatecommands.sty`
- `stmdatestyles.sty`

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

1.1.2. Options

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

`\usepackage[styles=true|false]{stmdate}`

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

Option *commands* This is a boolean option. Expected values are either `true` or `false`. It enables and disables the loading of specific date commands.

`\usepackage[commands=true|false]{stmdate}`

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

1.2. stmdatestyles

1.2.1. Description

This package contains styles for displaying dates in different formats. These can be used by commands from the underlying [datetime2](#) package, e.g. with the style definitions from subsection 1.2.2

`\DTMsetdatestyle{${STYLENAME$}}\DTMtoday`

or use the convenience commands from subsection 1.3.

1.2.2. Styles

These are the date styles and the respective output.

`versiondatestyle` 20230212

1.3. stmdatecommands

1.3.1. Description

These are commands to manipulate dates and their display.

1.3.2. Command `\formatdate`

Examples

<code>\formatdate[versiondatestyle]{\DTMToday}</code>	20230212
<code>\formatdate{\today}</code>	20230212
<code>\formatdate[versiondatestyle]{\today}</code>	20230212
<code>\formatdate{2019}[2][3]</code>	20190203
<code>\formatdate[versiondatestyle]{2019}[2][3]</code>	20190203
<code>\formatdate[versiondatestyle]{2019}[11][3]</code>	20191103
<code>\formatdate{2019}[2]</code>	20190201
<code>\formatdate[versiondatestyle]{2019}[2]</code>	20190201
<code>\formatdate{2019}[2][]</code>	20190201
<code>\formatdate[versiondatestyle]{2019}[2][]</code>	20190201
<code>\formatdate{2019}[][]</code>	20190101
<code>\formatdate[versiondatestyle]{2019}[][]</code>	20190101

A. The code

A.1. stmdate.sty

```

1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Preamble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %           DLR Lightweight Systems
18 %
19 %               __/|__
20 %             /_/_/_/_/
21 %           www.dlr.de/sy/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
```

```

27 %%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
    comment about what it's used for
33 \ProvidesPackage{stmdate}[2023/02/12 STMs custom LaTeX date definitions]
34
35 % -----
36 % Options
37 % -----
38
39 % Options package
40 \@ifpackageloaded{kvoptions}{\RequirePackage{kvoptions}}%
41
42 % Option group
43 \SetupKeyvalOptions{%
44     family=stmdate,%
45     prefix=stmdate@,%
46     setkeys=\kvsetkeys,%
47 }
48
49 % Styles
50 \DeclareBoolOption[true]{commands}
51
52 % Styles
53 \DeclareBoolOption[true]{styles}
54
55 % Process options
56 \ProcessKeyvalOptions{stmdate}
57
58 % -----
59 % Modules
60 % -----
61
62 % Load the base package
63 \@ifpackageloaded{stmdatebase}{\%
64     \RequirePackage{stmdatebase}%
65 }%
66
67 % Commands
68 \ifstmdate@commands
69     \RequirePackage{stmdatecommands}

```

```

70 \fi
71
72 % Styles
73 \ifstmdate@styles
74   \RequirePackage{stmdatestyless}
75 \fi
76
77 %%%%%%%%%%%
78 % That's it %
79 %%%%%%%%%%%
80
81 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
   this file. LaTeX will ignore anything after this line.
82 \endinput

```

A.2. stmdatabase.sty

```

1 %%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Preamble:
11 %   - \usepackage{stmdatabase}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %           DLR Lightweight Systems
18 %
19 %               __/|__
20 %               /_/_/_/
21 %           www.dlr.de/sy/en   | DLR
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
25 %%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%

```

```

28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
    comment about what it's used for
33 \ProvidesPackage{stmdatebase}[2023/02/12 STMs custom LaTeX date
    definitions]
34
35 % -----
36 % Package
37 % -----
38
39 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{datetime2}}%
40
41 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
42 % That's it                                     %
43 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
44
45 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
    this file. LaTeX will ignore anything after this line.
46 \endinput

```

A.3. stmdatecommands.sty

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Preamble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %           DLR Lightweight Systems
18 %
19 %               __/|__
20 %               /_/_/_/
21 %           www.dlr.de/sy/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
33 %   comment about what it's used for
34 \ProvidesPackage{stmdatecommands}[2023/02/12 STMs custom LaTeX date
35 %   commands definitions]
36
37 % -----
38 % Package
39 % -----
40
41 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{datetime2}}%
42 \@ifpackageloaded{stmdatestyles}{\RequirePackage{stmdatestyles}}%
```

```

41 \@ifpackageloaded{xparse}{\RequirePackage{xparse}}%
42 \@ifpackageloaded{ifmtarg}{\RequirePackage{ifmtarg}}%
43
44 % -----
45 % Commands
46 % -----
47
48 % https://tex.stackexchange.com/a/33753
49 \DeclareDocumentCommand{\formatdate}{%
50   0{versiondatestyle}%style - optional, default in brackets
51   m% date/year
52   o% month - optional
53   o% day - optional
54 }{%
55   \DTMsetdatestyle{#1}% The first (optional) argument is the style
56   \IfNoValueTF{#3}% There is just one argument defined after the style -
57     the date
58     {%
59       \@ifmtarg{#2}{\DTMdate{#2}}%
60     }%
61     {%
62       \DTMdate{%
63         \@ifmtarg{#2}{1}{#2}
64         -%
65         \IfNoValueTF{#3}{1}{\@ifmtarg{#3}{1}{#3}}%
66         -%
67         \IfNoValueTF{#4}{1}{\@ifmtarg{#4}{1}{#4}}%
68       }%
69     }%
70 }
71 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
72 % That's it
73 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
74
75 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
76 % this file. LaTeX will ignore anything after this line.
77 \endinput

```


A.4. stmdatestyles.sty

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Preamble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
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16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %           DLR Lightweight Systems
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20 %               /_/_/_/
21 %           www.dlr.de/sy/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
33 %   comment about what it's used for
34 \ProvidesPackage{stmdatestyles}[2023/02/12 STMs custom LaTeX date style
35 %   definitions]
36
37 % -----
38 % Package
39 % -----
40
41 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{datetime2}}%
```

```

41 % -----
42 % Styles
43 % -----
44
45 \DTMnewdatestyle{versiondatestyle}{%
46   %\renewcommand{\DTMdisplaydate}[4]{\number##1\number##2\number##3}%
47   \renewcommand{\DTMdisplaydate}[4]{\number##1\DTMtwodigits##2\
48     DTMtwodigits##3}%
49   \renewcommand{\DTMdisplaydate}{\DTMdisplaydate}%
50 }
51 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
52 % That's it %
53 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
54
55 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
56   this file. LaTeX will ignore anything after this line.
57 \endinput

```