

stmdate package description

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v20191210

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

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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` 20191210

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>	20191210
<code>\formatdate{\today}</code>	20191210
<code>\formatdate[versiondatestyle]{\today}</code>	20191210
<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 % - Premble:
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 Composite Structures and Adaptive Systems
18 %
19 %               __/|__
20 %               /_/_/_/
21 %               www.dlr.de/fa/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
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{stmdatetime}[2019/10/27 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=stmdatetime,%
45     prefix=stmdatetime@,%
46     setkeys=\kvsetkeys,%
47 }
48
49 % Styles
50 \DeclareBoolOption[true]{commands}
51
52 % Styles
53 \DeclareBoolOption[true]{styles}
54
55 % Process options
56 \ProcessKeyvalOptions{stmdatetime}
57
58 % -----
59 % Modules
60 % -----
61
62 % Load the base package
63 \@ifpackageloaded{stmdatetimebase}{\RequirePackage{stmdatetimebase}}%
64 \RequirePackage{stmdatetimebase}%
65 }%
66

```

```

67 % Commands
68 \ifstmdate@commands
69   \RequirePackage{stmdatecommands}
70 \fi
71
72 % Styles
73 \ifstmdate@styles
74   \RequirePackage{stmdatestyles}
75 \fi
76
77 %%%%%%%%%%%
78 % That's it %
79 %%%%%%%%%%%
80
81 % Finally, we'll use \endinput to indicate that LaTeX can
82   stop reading this file. LaTeX will ignore anything after
83   this line.
84 \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 Composite Structures and Adaptive Systems
18 %
19 %             __/|__
20 %             /_/_/_/
21 %             www.dlr.de/fa/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and

```

```

    Adaptive 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}[2019/10/27 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
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17 %               DLR Composite Structures and Adaptive Systems
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19 %               __/|__
20 %               /_/_/_/
21 %               www.dlr.de/fa/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX
30 %   version 2e.
31 \NeedsTeXFormat{LaTeX2e}
32
33 % Provide the name of your page, the date it was last updated
34 %   , and a comment about what it's used for
35 \ProvidesPackage{stmdatecommands}[2019/10/27 STMs custom
36 %   LaTeX date commands definitions]
37
38 % -----
39 % Package
40 % -----
```

```

39 \@@ifpackageloaded{datetime2}{}{\RequirePackage[style=iso]{
    datetime2}}%
40 \@@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 - the date
57   {%
58     \@ifmtarg{#2}{}{#2}%
59   }%
60   {%
61     \DTMdate{%
62       \@ifmtarg{#2}{1}{#2}
63       -%
64       \IfNoValueTF{#3}{1}{\@ifmtarg{#3}{1}{#3}}%
65       -%
66       \IfNoValueTF{#4}{1}{\@ifmtarg{#4}{1}{#4}}%
67     }%
68   }%
69 }
70
71 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
72 % That's it %
73 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
74
75 % Finally, we'll use \endinput to indicate that LaTeX can
    stop reading this file. LaTeX will ignore anything after
    this line.
76 \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
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %               DLR Composite Structures and Adaptive Systems
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20 %               /_/_/_/
21 %               www.dlr.de/fa/en   | / DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX
30 %   version 2e.
31 \NeedsTeXFormat{LaTeX2e}
32
33 % Provide the name of your page, the date it was last updated
34 %   , and a comment about what it's used for
35 \ProvidesPackage{stmdatestyles}[2019/10/27 STMs custom LaTeX
36 %   date style definitions]
37
38 % -----
39 % Package
40 % -----
```

```

39 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{
    datetime2}}%
40
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\DTMtwodigits##3}%
48   \renewcommand{\DTMDisplaydate}{\DTMdisplaydate}%
49 }
50
51 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
52 % That's it %
53 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
54
55 % Finally, we'll use \endinput to indicate that LaTeX can
    stop reading this file. LaTeX will ignore anything after
    this line.
56 \endinput

```