Task Report v0.1

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Monday 31ˢᵗ May, 2021 - 18:18

Contents

1 Introduction

This package supports the maintenance and report of a task list..

2   How to use task-report

`task-report` is available as open source at `https://github.com/xexeo/` `task-report`. The stable distribution is in the folder `dist`, while the lastest, and unstable, will be in the root folder.

The only file you really need, besides this manual, is `task-report.sty`. This should be in your LaTeX path, such as in the same folder that your main `.tex` file.

You can make suggestions, complain about bugs, and request features using GitHub's "Issues" feature, in `https://github.com/xexeo/task-report/issues` (you must be signed in).

2.1   Using from Overleaf

The best way to use `task-report` inside Overleaf is to link the distributed style file through its URL. To do that, inside your project, select first "Upload". An "Add files" window will appear, then select "From Externa URL" and enter `https://` `raw.githubusercontent.com/xexeo/task-report/main/dist/task-report.sty` as "URL to fetch the file from" and "task-report" as "File Name in This Project", as in Figure 1.
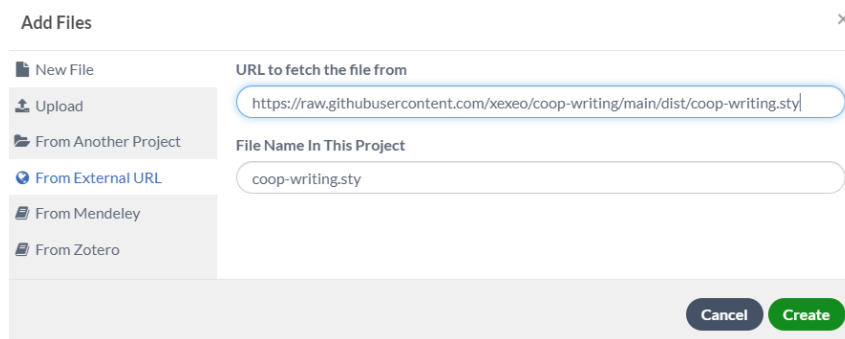

Figure 1: How to link a `task-report.sty` file in your project folder in Overleaf to the official distribution.

3   Package Options

There are no package options up to now

3.1 General behavior

4 Version

It is possible that the user wants to know the version being used. We provide two commands for it.

`\taskreportversion`   Provides the current version

`\printtaskreportversion`   Provides name and version

`\taskreportversion` was used in the title of this article. The current version is v0.1.

If needed, the second macro prints also the name of the package:

`\printtaskreportversion`

will result in:

task-report v. v0.1

Please state the version when reporting bugs.

5 Usage

`\trtask`

This is the main macro for the package. `\trtask[`⟨*status*⟩`]{`⟨*name*⟩`}{`⟨*when-assigned*⟩`}` `{`⟨*who-assigned*⟩`}{`⟨*to-who-assigned*⟩`}` `{`⟨*why*⟩`}` `{`⟨*when-done*⟩`}` `{`⟨*extra-text*⟩`}`

Altough it has 7 mandatory parameters, all of them can be empty.

The example:

```
%\trtask[todo]{Mage coffe}{\today}{Geraldo Xexéo}{}{}{}{Please do the coffe strong}
%\trtask[doing]{Drink a coffe}{\today}{The Boss}{The Worker}{}{}{}
%\trtask[done]{Drink a beer}{\today}{The Boss}{The Worker}{\today}{}{}
%\trtask{}{}{}{}{}{}{}
%\trtask[done]{}{}{}{}{}{}{}
%\trtask{Grab a hot-dog}{3}{4}{5}{6}{7}{A hot dog must be done with bread and sausage}
%
```

generates:

Mage coffe

Status: todo
Assigned in: Monday 31st May, 2021
From: Geraldo Xexéo

Please do the coffe strong

Drink a coffe

Status: doing
Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker

Drink a beer

Status: done
Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker
Rationale: done

Task not defined

Task not defined

Status: done

Grab a hot-dog

Assigned in: 3
From: 4
To: 5
Rationale:
Done in: 7

A hot dog must be done with bread and sausage

5.1 Configuration Options

\trsetboxcolors   Set the colors for the 4 types of standard states Black otherwise.

\trsetboxcolors{⟨*todo-color*⟩}{⟨*doing-color*⟩}{⟨*done-color*⟩}{⟨*other-color*⟩}

The example:

```
%\trsetboxcolors{blue}{purple}{orange}{green}
%
%\trtask[todo]{Drink a coffe}{\today}{The Boss}{The Worker}%
%{To keep awake}{\today}{Coffe must be strong and add 1 spoon of sugar}
%\trtask[doing]{Drink a coffe}{\today}{The Boss}{The Worker}%
%{To keep awake}{\today}{Coffe must be strong and add 1 spoon of sugar}
%\trtask[done]{Drink a coffe}{\today}{The Boss}{The Worker}%
%{To keep awake}{\today}{Coffe must be strong and add 1 spoon of sugar}
%\trtask{Drink a coffe}{\today}{The Boss}{The Worker}%
%{To keep awake}{\today}{Coffe must be strong and add 1 spoon of sugar}
%
%
```

generates:

Drink a coffe

Status: todo
Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker
Rationale: todo
Done in: Monday 31st May, 2021

- -

Coffe must be strong and add 1 spoon of sugar

Drink a coffe

Status: doing
Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker
Rationale: doing
Done in: Monday 31st May, 2021

- -

Coffe must be strong and add 1 spoon of sugar

<div>

Drink a coffe

Status: done
Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker
Rationale: done
Done in: Monday 31st May, 2021

- -

Coffe must be strong and add 1 spoon of sugar

</div>

<div>

Drink a coffe

Assigned in: Monday 31st May, 2021
From: The Boss
To: The Worker
Rationale:
Done in: Monday 31st May, 2021

- -

Coffe must be strong and add 1 spoon of sugar

</div>

6 Warnings

This package uses another package that changes LaTeX's standard behavior for summary and lists. When you use it, you must explicitly change pages with `\newpage` before `\tableofcontents` or similar commands.

7 Implementation

This package was initially written in Portuguese. As it become more useful, it was translated to English. There are still some signs of this in the code.

7.1 Required Packages

- `mdframed` makes the frame aroung tasks

- `etoolbox` command ifstringempty

```
1 \RequirePackage{tcolorbox}%
2 \RequirePackage{etoolbox}%
3 \RequirePackage{xstring}%
```

7.2 Access to the current version

We provide some macros for the user to know the version being used.

\taskreportversion Provides current version of coop-writing

```
4 \newcommand{\taskreportversion}{\tr@version}%
```

\printtaskreportversion Provides package name and version

```
5 \newcommand{\printtaskreportversion}{task-report v. \taskreportversion}%
```

7.3 Color Management

\tr@todoboxcolor
\tr@doingboxcolor
\tr@doneboxcolor
\tr@otherwisecolor

Global variables for the box colors.

```
6 \def\tr@todoboxcolor{red}%
7 \def\tr@doingboxcolor{yellow}%
8 \def\tr@doneboxcolor{green}%
9 \def\tr@otherwisecolor{black}%
```

\trsetboxcolors Set the colors for the 4 types of standard states Black otherwise.

$$\trsetboxcolors\{\langle todo\text{-}color\rangle\}\{\langle doing\text{-}color\rangle\}\{\langle done\text{-}color\rangle\}\{\langle other\text{-}color\rangle\}$$

```
10 \newcommand{\trsetboxcolors}[4]{%
11 \def\tr@todoboxcolor{#1}%
12 \def\tr@doingboxcolor{#2}%
13 \def\tr@doneboxcolor{#3}%
14 \def\tr@otherwisecolor{#4}%
15 }%
```

\tr@currentboxcolor The dirt trick of using a global variable to store a value

```
16 \def\tr@currentboxcolor{\tr@otherwisecolor}%
```

\trstatuscolor Select the color based on the state

$$\trstatuscolor\{\langle state\rangle\}$$

```
17 \newcommand{\trstatuscolor}[1]%
18 {%
19     \def\tr@currentboxcolor{\tr@otherwisecolor}%
20     \ifstrempty{#1}{}{%
21     \IfStrEqCase{#1}{%
22     {todo}{\def\tr@currentboxcolor{\tr@todoboxcolor}}%
23     {doing}{\def\tr@currentboxcolor{\tr@doingboxcolor}}%
24     {done}{\def\tr@currentboxcolor{\tr@doneboxcolor}}%
25     }%
26     }%
27 }%
```

7.4   Declaring Tasks

7.4.1   Helpers

`\trstatus`
`\trwhen`
`\trwhy`
`\trwhat`
`\trwho`

Helpers to build the task

```
28 \newcommand{\trstatus}[2][Status]{%
29     \textbf{#1}: #2%
30 }%
31 \newcommand{\trwhen}[2][Assigned in]{%
32     \textbf{#1}: #2%
33 }%
34 \newcommand{\trwho}[2][To]{%
35     \textbf{#1}: #2%
36 }%
37 \newcommand{\trwhat}[2][What]{%
38     \textbf{#1}: #2%
39 }%
40 \newcommand{\trwhy}[2][Rationale]{%
41     \textbf{#1}: #2%
42 }%
43 %
```

7.4.2   Main task macro

`\trtask`   Describes a task

$\trtask[\langle status \rangle]\{\langle name \rangle\}\{\langle when\text{-}assigned \rangle\} \{\langle who\text{-}assigned \rangle\}\{\langle to\text{-}who\text{-}assigned \rangle\}\{\langle why \rangle\}\{\langle when\text{-}d$

For example:

```
%\trtask[Help students organize]{doing}
% {Prepare a \LaTeX\ style to support task report}
% {2021-05-31}{Xexéo}{Geraldo Xexéo}{}
%
```

generates:

Prepare a LATEX style to support task report

Status: doing
Assigned in: 2021-05-31
From: Xexéo
To: Geraldo Xexéo
Rationale: doing
Done in: not yet

This is an idea to help understanding the work being done

```
44 %   [status] , what, when-assigned, from-who, to-who, why, when-done, extra
45 \newcommand{\trtask}[8][]{%
46     \par%
47     \ifstrempty{#2}{
48     \def\trtask@temp{Task not defined}%
49     }%
50     {%
51     \def\trtask@temp{#2}%
52     }%
53     \trstatuscolor{#1}%
54     \begin{tcolorbox}[title=\textbf{\trtask@temp},%
55         colback=\tr@currentboxcolor!5!white,%
56         colframe=\tr@currentboxcolor!75!black%
57       ]%
58       \ifstrempty{#1}{}%
59       {%
60           \trstatus{#1}\newline%
61       }%
62       \ifstrempty{#3}{}%
63       {%
64           \trwhen{#3}\newline%
65       }%
66       \ifstrempty{#4}{}%
67       {%
68           \trwho[From]{#4}\newline%
69       }%
70       \ifstrempty{#5}{}%
71       {%
72           \trwho{#5}\newline%
73       }%
74       \ifstrempty{#6}{}%
75       {%
76       \trwhy{#1}\newline%
77       }%
78       \ifstrempty{#7}{}%
79       {%
```

9

```
80            \trwhen[Done in]{#7}\newline%
81         }%
82         \ifstrempty{#8}{}%
83         {\tcblower%
84         #8%
85         }%
86     \end{tcolorbox}%
87 }%
```

End of Code

Change History

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.