

# Task Report v0.1

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Monday 31<sup>st</sup> May, 2021 - 18:40

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## 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 latest, 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  $\text{\LaTeX}$  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 External 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.

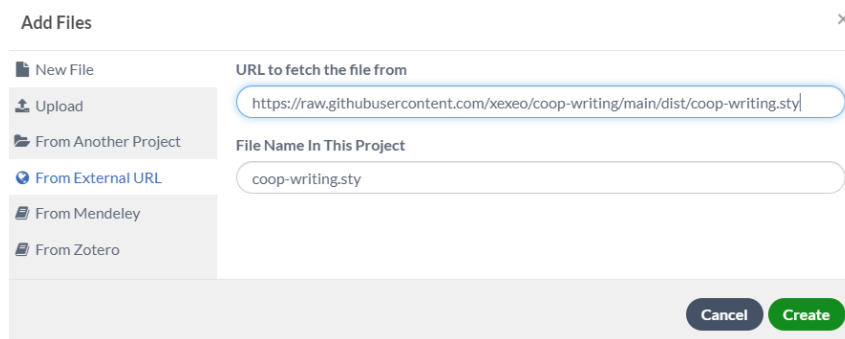


Figure 1: How to link a `task-report.sty` file in your project folder in Overleaf to the official distribution.

## 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.

<code>\taskreportversion</code>	Provides the current version
<code>\prnttaskreportversion</code>	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:

`\prnttaskreportversion`

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]`

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

There are 5 possible states that are associated with a color (*default color*): todo (red), doing(yellow), tocheck (cyan), checking (blue), and done(green). There is a pseudo-state other (black) that will be the color of any other word used of a state. Colors belong to the `xcolor` package and are configurable, as explained in section 5.1.

The example:

```
%\trtask[todo]{Mage coffe}{\today}{Geraldo Xexéo}{}{}{}{Please do the coffe strong}
%\trtask[doing]{Drink a coffe}{June, 1st 2021}{The Boss}{The Worker}{}{}{}
%\trtask[tocheck]{Roast the beef}{June, 1st 2021}{The Boss}{The Worker}{\today}{}{Rare,
%\trtask[checking]{Drink another beer}{June, 1st 2021}{The Boss}{The Worker}{\today}{}{P
%\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
<b>Status:</b> todo <b>Assigned in:</b> Monday 31 <sup>st</sup> May, 2021 <b>From:</b> Geraldo Xexéo
Please do the coffe strong

Drink a coffe
<b>Status:</b> doing <b>Assigned in:</b> June, 1st 2021 <b>From:</b> The Boss <b>To:</b> The Worker

Roast the beef
<b>Status:</b> tocheck <b>Assigned in:</b> June, 1st 2021 <b>From:</b> The Boss <b>To:</b> The Worker <b>Rationale:</b> Monday 31 <sup>st</sup> May, 2021
Rare, plese

Drink another beer
<b>Status:</b> checking <b>Assigned in:</b> June, 1st 2021 <b>From:</b> The Boss <b>To:</b> The Worker <b>Rationale:</b> Monday 31 <sup>st</sup> May, 2021
Please check if you have age to drink in your country. If not, drink orange-juice.

Drink a beer

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

Task not defined

Task not defined

Status: done

Grab a hot-dog

Assigned in: 3  
From: 4  
To: 5  
Rationale: 6  
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{magenta}{purple}{orange}{pink}{lime}{pink}
%
%\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[tocheck]{Drink a coffe}{\today}{The Boss}{The Worker}%
%{To keep awake}{\today}{Coffe must be strong and add 1 spoon of sugar}
%\trtask[checking]{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 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

**Drink a coffe**

**Status:** doing  
**Assigned in:** Monday 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

**Drink a coffe**

**Status:** tocheck  
**Assigned in:** Monday 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

### Drink a coffe

**Status:** checking  
**Assigned in:** Monday 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

### Drink a coffe

**Status:** done  
**Assigned in:** Monday 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

### Drink a coffe

**Assigned in:** Monday 31<sup>st</sup> May, 2021  
**From:** The Boss  
**To:** The Worker  
**Rationale:** To keep awake  
**Done in:** Monday 31<sup>st</sup> May, 2021

---

Coffe must be strong and add 1 spoon of sugar

## 6 Warnings

This package uses another package that changes L<sup>A</sup>T<sub>E</sub>X'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 around 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 Global variables for the box colors.  
\tr@doingboxcolor  
\tr@doneboxcolor  
\tr@tocheckboxcolor  
\tr@checkingboxcolor  
\tr@otherwisecolor  
6 \def\tr@todoboxcolor{red}%  
7 \def\tr@doingboxcolor{yellow}%  
8 \def\tr@tocheckboxcolor{cyan}%  
9 \def\tr@checkingboxcolor{blue}%  
10 \def\tr@doneboxcolor{green}%  
11 \def\tr@otherwisecolor{black}%  
  
\trsetboxcolors Set the colors for the 6 types of standard states Black otherwise.  
  
\trsetboxcolors{\todo-color}{\doing-color}{\tocheck-color}{\checking-color}{\done-color}{\ot  
  
12 \newcommand{\trsetboxcolors}[6]{%  
13 \def\tr@todoboxcolor{#1}%  
14 \def\tr@doingboxcolor{#2}%  
15 \def\tr@tocheckboxcolor{#3}%  
16 \def\tr@checkingcolor{#4}%
```



```

17 \def\tr@doneboxcolor{#5}%
18 \def\tr@otherwisecolor{#6}%
19 }%

```

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

```

20 \def\tr@currentboxcolor{\tr@otherwisecolor}%

```

`\trstatuscolor` Select the color based on the state

```

\trstatuscolor{\<state>}

```

```

21 \newcommand{\trstatuscolor}[1]%
22 {%
23   \def\tr@currentboxcolor{\tr@otherwisecolor}%
24   \ifstrepty{#1}{}{%
25     \IfStrEqCase{#1}{%
26       {todo}{\def\tr@currentboxcolor{\tr@todoboxcolor}}%
27       {doing}{\def\tr@currentboxcolor{\tr@doingboxcolor}}%
28       {done}{\def\tr@currentboxcolor{\tr@doneboxcolor}}%
29       {tocheck}{\def\tr@currentboxcolor{\tr@tocheckboxcolor}}%
30       {checking}{\def\tr@currentboxcolor{\tr@checkingboxcolor}}%
31     }%
32   }%
33 }%

```

## 7.4 Declaring Tasks

### 7.4.1 Helpers

`\trstatus` Helpers to build the task

```

\trwhen
\trwhy
\trwhat
\trwho
34 \newcommand{\trstatus}[2][Status]{%
35   \textbf{#1}: #2%
36 }%
37 \newcommand{\trwhen}[2][Assigned in]{%
38   \textbf{#1}: #2%
39 }%
40 \newcommand{\trwho}[2][To]{%
41   \textbf{#1}: #2%
42 }%
43 \newcommand{\trwhat}[2][What]{%
44   \textbf{#1}: #2%
45 }%
46 \newcommand{\trwhy}[2][Rationale]{%
47   \textbf{#1}: #2%
48 }%
49 %

```

### 7.4.2 Main task macro

`\trtask` Describes a task

`\trtask[<status>]{<name>}{<when-assigned>}{<who-assigned>}{<to-who-assigned>}{<why>}{<when-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  $\text{\LaTeX}$  style to support task report

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

-----  
This is an idea to help understanding the work being done

```
50 % [status] , what, when-assigned, from-who, to-who, why, when-done, extra
51 \newcommand{\trtask}[8][]{%
52     \par%
53     \ifstrepty{#2}{
54         \def\trtask@temp{Task not defined}%
55     }%
56     {%
57         \def\trtask@temp{#2}%
58     }%
59     \trstatuscolor{#1}%
60     \begin{tcolorbox}[title=\textbf{\trtask@temp},%
61         colback=\tr@currentboxcolor!5!white,%
62         colframe=\tr@currentboxcolor!75!black%
63     ]%
64     \ifstrepty{#1}{}%
65     {%
66         \trstatus{#1}\newline%
67     }%
68     \ifstrepty{#3}{}%
69     {%
70         \trwhen{#3}\newline%
71     }%
```

```

72      \ifstrempy{#4}{}%
73      {%
74          \trwho[From]{#4}\newline%
75      }%
76      \ifstrempy{#5}{}%
77      {%
78          \trwho{#5}\newline%
79      }%
80      \ifstrempy{#6}{}%
81      {%
82          \trwhy{#6}\newline%
83      }%
84      \ifstrempy{#7}{}%
85      {%
86          \trwhen[Done in]{#7}\newline%
87      }%
88      \ifstrempy{#8}{}%
89      {\tcblower%
90      #8%
91      }%
92      \end{tcolorbox}%
93 }%

```

End of Code

## Change History

v0.1

General: First version . . . . . 1

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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.

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