The semesterplanner-Package

Niklas Schneider

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Abstract

This package encapsules several useful environments for a printable semester plan. It includes a timetable (which is using the schedule-Package) as well as appointments, deadlines and exams.

While creating my own plan I thought that it could come handy for somebody else, so I extracted the code into a LATEX-package.

This package requires color, tikz, schedule and fontawesome. Furthermore documents need to be compiled with LuaLaTeX.

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1 Environments

1.1 Timetable

1.1.1 Usage

With the timetable-environment you can create a timetable based on the schedule-package. Inside you use the following commands, each of which take the same range of arguments:

The syntax is as follows:

```
\lecture {Course name} {Lecturer} {Room} {Day} {Time} {Priority}
```

- Course name. The name of the course.
- Lecturer. The name of the lecturer.
- Room. The room, where the course takes place. As this package was created during a time, where courses were held online, you can also insert commands for online platforms. See → Online Platforms.
- $\bullet\,$ Day. The day when the course takes place. Must be exactly M, T, W, Th, F.
- Time. The time when the course takes place. Must be exactly in the format hh:mm-hh:mm.
- Priority. The priority of the course. See \rightarrow Priority.

1.1.2 Change colors

If you want to change the colors of the panels, you can simply redefine them with \definecolor. The name of the color matches the name of the command of which you want to change the color. For example:

makes all panels of lectures black.

1.2 Legend

Inside the legend-environment you can use the \ttlegend-command to add a legend entry for your timetable. The syntax is as follows:

- Color. The color the legend entry belongs to.
- Description. Self-explaining.

1.3 Appointments

1.3.1 Usage

Inside the appointments-environment you can use the \appointment-command to add an appointment to the list. The syntax is as follows:

```
\appointment {Date} {Time} {Course} {Description} {Room/Platform} {Priority}
```

- Date, Time. When the appointment is scheduled. The two arguments do not need to follow a specific format.
- Course. The course the appointment belongs to.

- Description. A short description of the appointment
- Room/Platform. Where the appointment is scheduled. You can also insert an online-platform-command here (see → Online Platforms).
- Priority. The priority of the appointment. See \rightarrow Priority.

Note that \appointment only works in the appropriate environment.

1.3.2 Arguments

This environment takes two arguments, namely the type of checkbox (see \rightarrow Checkboxes) and optionally the title of the "room"-column. If nothing is set for the last one, it will be "Room".

1.4 Deadlines

This environment is similar to the appointment-environment. Inside, you can use the \deadline-command to add deadlines to the list.

It also has the mandatory checkbox-type argument (see \rightarrow Checkboxes).

1.5 Exams

This environment is similar to two above. Inside, you can use the \exam-command to add exams to the list.

- Date, Time, Course. As before.
- Type. The type of the exam. See \rightarrow Exam Types.

It also has the mandatory checkbox-type argument (see \rightarrow Checkboxes).

1.6 Checkboxes

You can add two kinds of checkboxes to your lists.

- none does not show any checkboxes for items in that environment. Instead of none you can actually write everything except for the following two keywords.
- print creates squares you can tick on a printed version of your document:
- click creates clickable form checkboxes:

2 User Commands

Most of the following commands make use of the fontawesome-package.

2.1 Priority

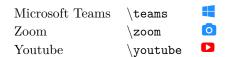
There are 5 different types of priority you can display with this package:

No priority	$\backslash \mathtt{pnone}$	8
Low priority	\plow	
Medium priority	$\operatorname{\pmid}$	
High priority	ϕgh	
Mandatory	$\protect\pro$	A

They are theoretically usable everywhere, but primarily intended for the usage in the appointments- and timetable-environments.

2.2 Online Platforms

At the moment there are 3 different types of online platform you can display with this package:



There will likely be more to be added. Alternatively you can write out the platform you wish.

2.3 Exam Types

At the moment there are 2 different types exam types you can display with this package:

2.4 Misc

There are other little helpful commands you can use as you wish.

3 Localization

The words displayed by this package are translated using the translators package.

3.1 Usage

```
Begin your document with \documentclass[<language>]{<class>} \usepackage{babel} in order to get the correct translatios.

If you want to use Japanese translations make sure you include \usepackage{luatexja-fontspec} in your preamble.
```

3.2 Languages

Currently supported languages are

- English
- German
- French
- Japanese (by cmplstofB)
- Spanish (by rafaelpap)

3.3 Known issues

When compiling with *French* there is an error in the timetable. Everything else should work.

4 The rewritten schedule-package

The original schedule-package has been released under *The LATEXProject Public License Version 1.3c* (https://www.ctan.org/license/lppl1.3c).

You can find the original work at https://www.ctan.org/pkg/schedule (Copyright 1997-2001 Jason Alexander, 2019 Ethan Deneault).

As this license requires one to list the changes to the original, here you can find this list.

- Comments and documentation have been removed in general. Instead comments describing the changes (as does this list) have been added at the corresponding lines.
- The translations-package has been included.
- Translations for each supported language have been added.
- The new translations are used when building the timetable.

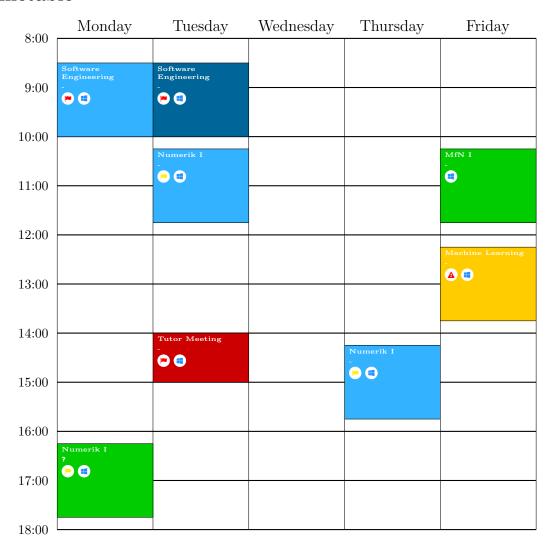
The authors of the original version of the work do not provide any support, including (but not limited to) the reporting and handling of errors.

5 Examples

5.1 Timetable

```
\begin { timetable }
                   \{Software \setminus Engineering\} \{-\}
 \lecture
                                                                  {\zoom}
                                                                                       \{08:30-10:00\}\ \{\phigh\}
                                                                               \{M\}
 \tutorial
                   {Numerik I}
                                                       \{\tbd\}
                                                                  \{ \setminus \text{teams} \}
                                                                               \{M\}
                                                                                       \{16:15-17:45\}\ \{\text{pmid}\}
 \officehour {Software\\Engineering}
                                                                  \{ \setminus zoom \}
                                                                               \{T\}
                                                                                       \{08:30-10:00\}\ \{\phigh\}
                   {Numerik I}
                                                                               {T}
                                                                                       \{10:15-11:45\}\ \{\text{pmid}\}
 \lecture
                                                                  \{ \setminus \text{teams} \}
                   {Tutor Meeting}
 \ meeting
                                                                  \{ \setminus \text{teams} \} \{ T \}
                                                                                       \{14:00-15:00\}\ \{\phigh\}
                   {Numerik I}
 \lecture
                                                                  \{\text{teams}\}\ \{\text{Th}\}\ \{14:15-15:45\}\ \{\text{pmid}\}
 \tutorial
                   \{MfN \mid I\}
                                                                  \{ \setminus \text{teams} \} \{ F \}
                                                                                       \{10:15-11:45\}\ \{\}
                   {Machine Learning}
                                                                                       \{12:15-13:45\}\ \{\pmandatory\}
 \seminar
                                                                  \{ \setminus zoom \}
                                                                               {F}
\end{timetable}
```

② Timetable



5.2 Legend

```
\begin{legend}
\ttlegend {lecture} {Lecture}
\ttlegend {tutorial} {Tutorial}
\ttlegend {meeting} {Meeting}
\ttlegend {seminar} {Seminar}
\ttlegend {officehour} {Office Hour}
\end{legend}

Lecture
Tutorial
```

5.3 Appointments

```
\begin{appointments}[Platf.]{none}\\ \appointment {09.11.2020} {10:15-11:45} {Seminar} {Kickoff-Meeting} {\teams}\\ \appointments}\\ \end{appointments}
```

Meeting Seminar Office Hour

Appointments

5.4 Deadlines

```
\begin{deadlines}{print} $$ \deadline {01.01.2021} {Seminar} {Hand in write-up} {\phigh} \end{deadlines}
```

$lacktriangledown^*$ Deadlines

```
Date Course Description Prio.

□ 01.01.2021 Seminar Hand in write-up
```

5.5 Exams

```
\begin{exams} \{click\} \\ \exam \{04.03.2021\} \{09:00-12:00\} \{Analysis\ I\} \{\written\} \\ \exam \{20.03.2021\} \{14:00-14:30\} \{ICL\} \\ \end{exams} \label{eq:condition}
```

☐ Exams

\blacksquare	Date	\mathbf{Time}	Course	\mathbf{Type}
	04.03.2021	09:00 - 12:00	Analysis I	
	20.03.2021	14:00 - 14:30	ICL	