

The semesterplanner-Package

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January 3, 2021

Version 1.3

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:

`\lecture, \seminar, \meeting, \officehour, \tutorial`

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.
- **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 → 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:

`\definecolor {lecture} {rgb} {0, 0, 0}`

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:

`\ttlegend {Color} {Description}`

- **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 → 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 → 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.

```
\deadline {Date} {Course} {Description} {Priority}
```

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

1.5 Exams

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

```
\exam {Date} {Time} {Course} {Type}
```

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

It also has the mandatory checkbox-type argument (see → 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	<code>\pnone</code>	
Low priority	<code>\plow</code>	
Medium priority	<code>\pmid</code>	
High priority	<code>\phigh</code>	
Mandatory	<code>\pmandatory</code>	

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:

Microsoft Teams	<code>\teams</code>	
Zoom	<code>\zoom</code>	
Youtube	<code>\youtube</code>	

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:

Written exam	<code>\written</code>	
Oral exam	<code>\oral</code>	

2.4 Misc

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

To be announced	<code>\tba</code>	
To be determined	<code>\tbd</code>	

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 translations.

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






```

🕒 Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
9:00	Software Engineering - 	Software Engineering - 			
10:00					
11:00		Numerik I - 			MfN I - 
12:00					
13:00					Machine Learning - 
14:00		Tutor Meeting - 		Numerik I - 	
15:00					
16:00					
17:00	Numerik I ? 				
18:00					

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
	Meeting
	Seminar
	Office Hour

5.3 Appointments

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


Appointments

Date	Time	Course	Description	Platf.	Prio.
09.11.2020	10:15 - 11:45	Seminar	Kickoff-Meeting		

5.4 Deadlines

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


Deadlines

<input checked="" type="checkbox"/>	Date	Course	Description	Prio.
<input type="checkbox"/>	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} {\oral}
\end{exams}
```

Exams

<input checked="" type="checkbox"/>	Date	Time	Course	Type
	04.03.2021	09:00 - 12:00	Analysis I	
	20.03.2021	14:00 - 14:30	ICL	