The litetable Class: Colorful Timetable *

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Abstract

This is the manual for litetable class, which provides a design of timetable with colorful course blocks. Welcome to feedback bugs or ideas via email xiamyphys@gmail.com or GitHub. This manual is available in three versions: English, Chinese, and Cantonese.

1 Introduction

1.1 Packages required

This class is based on the article class. It requires expl3, xparse, tikz, listofitems, and xcolor packages.

1.2 Compatibility

2 Usage

2.1 Loading litetable and generate the timetable frame

Just like loading any class, write

\documentclass{litetable}

The following commands need the tikzpicture environment with remember picture, overaly option.

^{*}https://github.com/xiamyphys/litetable

2.1.1 The \maketable command

```
\mbox{\mbox{\tt maketable}}[\langle semester \rangle] \{\langle title \rangle\}
```

This command has two arguments that can create an empty timetable frame. The first optional argument can add the semester block at the northeast corner of the page, the second mandatory argument can assign the title.

2.1.2 The \more command

```
\more{\langle comment \rangle}
```

This command can add a comment at the southwest corner of the page.

2.1.3 The \timelist command

```
\timelist[\langle rows \rangle] \{\langle time\ list \rangle\}
```

This command has two arguments, the first optional argument $[\langle\#1\rangle]$ can directly assign the number of rows on the timetable, and the second mandatory argument $\{\langle\#2\rangle\}$ can add time to the left side of the timetable. Format for inputting array is the following: separate the start time and the end time with a dash (-) and separate the time groups with a comma (,). For example

```
\timelist[13]{\( \) 08:05 - 08:50, 08:55 - 09:40, 10:00 - 10:45, 10:50 - 11:35, \) 11:40 - 12:25, 13:30 - 14:15, 14:20 - 15:05, 15:15 - 16:00, \) 16:05 - 16:50, 18:30 - 19:15, 19:20 - 20:05, 20:10 - 20:55, \}
```

For different usage scenarios of the two arguments, litetable will generate a corresponding row-based timetable frame according to the following rules.

[⟨#1⟩]/{⟨#2⟩}	To use	Not to use
To use	The effect is the same as described in $\{\langle \#2 \rangle\}$, but the number of rows in the timetable is determined by $[\langle \#1 \rangle]$	The effect is the same as described in $\left[\left\langle \#1\right\rangle \right]$
Not to use	The effect is the same as described in $\{\langle \#2 \rangle\}$	ERROR!

- If the mandatory argument $\{\langle \#2 \rangle\}$ receives X sets of time, and the optional argument $[\langle \#1 \rangle]$ receives a value of X+a, then only lines $1\sim X$ on the left side of the timetable display the time, while the other lines do not display the time.
- If the mandatory argument $\{\langle \#2 \rangle\}$ receives X+a sets of time, and the optional $[\langle \#1 \rangle]$ receives a value of X, then there will generate a timetable with only X rows with extra time sets ignored, and it will return a warning.

2.1.4 The \weeklist command

```
\weeklist[\langle default\ weeks \rangle] \{\langle week\ list \rangle\}
```

This command has two arguments. The first optional argument can determine the default number of weeks and print at every course block's southeast corner. The second mandatory argument can add workdays with corresponding width ratios at the top of the timetable. The first line of the input array is the formats of the working days, and the second line is the corresponding width ratio. Two lines are separated by a semicolon (;). For example

```
\weeklist[Weeks 1 - 16]{%
    \scshape Mon, \scshape Tue, \scshape Wed,
    \scshape Thu, \scshape Fri; 4,5,4,6,5
}

-1/15 0 Mon 4x Tue 9x Wed 13x Thu 19x Fri 24x
```

Now, the default value of the key weeks is set to Weeks 1 - 16. If the number of workdays is larger than the ratios you input, then the extra workdays will be ignored and it will return a warning.

2.2 Add course blocks

Using the \course command to add course blocks on the current workday. This command has two arguments.

```
\course[\langle keyvals \rangle] \{\langle class\ start\ number \rangle\} [\langle class\ end\ number \rangle]
```

The first optional argument accepts the following keys: <code>color</code> <code>subject</code> <code>location</code> <code>teacher</code> <code>weeks</code>. The default value of the key <code>color</code> is <code>DarkSlateGray</code>, and the default value of the key <code>weeks</code> is determined by the first argument of the command <code>weeklist</code>. The second and third mandatory arguments are the start and end numbers of the course, respectively. The following is a use case of the command <code>course</code>

Set the color of this course block to DarkGreen, the course name to listofitems, the class location to French, and the teacher to Christian Tellechea, starting from the 10th class of the day and ending from the 12th class of the same day.

- One can switch to the next workday via the command \newday.
- If the course block's height is only one unit, that is {\langle class start number \rangle} = {\langle class end number \rangle}, the values of keys \[
 \begin{align*} \langle \text{location} \\ \text{and} \\ \text{teacher} \\ \text{will} \\ \text{print} \\ \text{on} \\ \text{the value of the key \(\text{weeks} \) will not be printed.} \]
- If neither the key location nor the key teacher is assigned value, then the value of the key subject will print at the center of the course block.

Skyrmion's Timetable ⇒SEM 7 🖖 TUE Mon C WED **♣** Thu FRI 1 08:05 usrguide 08:50 LATEX Project Team 2 08:55 09:40 Weeks 7 - 14 3 10:00 10:45 TikZ 4 library: calc 10:50 xia-my@ctan The PGF/TikZ Team 11:35 5 11:40 12:25 Weeks 1 - 16 6 13:30 14:15 7 14:20 15:05 Keep on TEXing 8 interface3 xcolor 15:15 The LATEX Project Germany, Dr. Uwe Kern 16:00 Weeks 1 - 16 9 16:05 16:50 Weeks 1 - 16 10 18:30 19:15 11 listofitems 19:20 French 20:05 Christian Tellechea 12 20:10 20:55 Weeks 1 - 16 13