The litetable Class: Colorful Timetable *

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1 Introduction

The litetable class provides a design of timetable with colorful course boxes, which is based on the article class, and conducted on expl3 and tikz. It is compatible with TeXLive 2019 or later distributions, they all work fine for pdfLATEX and X∃LATEX compilers. This is the Chinese manual for the litetable class, manuals in Chinese and Cantonese versions are also provided[1].

2 Loading litetable and generate the timetable frame

Just like loading any class, write

```
\documentclass {litetable}
```

One can load the ctex package and set the font to input the CJK characters, if necessary.

`\timelist` `\timelist` [⟨*rows*⟩] {⟨*time list*⟩}   `\timelist` {⟨*time list*⟩} [⟨*rows*⟩]
`\weeklist` `\weeklist` [⟨*default weeks*⟩] {⟨*week list*⟩} `\weeklist` {⟨*week list*⟩} [⟨*default weeks*⟩]

The optional argument of the command `\timelist` can force the number of rows on the timetable, and that of the command `\weeklist` can set the default number of weeks and print it at every course box's southeast corner. Each mandatory argument of the two commands accepts an array that can add a time list to the left side of the timetable and add workdays with corresponding width ratios at the top of the timetable, respectively. The example for inputting the arrays is shown in Appendix A.

If the number of time arrays received by the command `\timelist` is greater than the forced number of rows, then the extra time sets are ignored, and it will return a warning. If one wants to add a series of numbers to the left side of the timetable without time, just leave the mandatory argument blank.

`\more` `\more` {⟨*comment*⟩}

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

`\maketable` `\maketable` [⟨*keyvals*⟩] {⟨*title*⟩} [⟨*keyvals*⟩]

This command can create a blank timetable frame, and it should execute after commands `\timelist` and `\weeklist` in the `tikzpicture` environment with the option of [`remember picture, overaly`]. The optional argument accepts keys, it can set the background color of the timetable, and add the semester at the northeast corner of the page, the default value of the key ⌘ color is `gray`. The mandatory argument can set the title.

3   Add course boxes

`\course` `\course` [⟨*keyvals*⟩] {⟨*start number*⟩} [⟨*keyvals*⟩] {⟨*end number*⟩} [⟨*keyvals*⟩]

The `\course` command can add course boxes on the current workday, it should execute after command `\maketable` in the `tikzpicture` environment with the option of [`remember picture, overaly`].

The optional argument accepts the following keys: ⌘ color ⌘ subject ⌘ location ⌘ teacher ⌘ weeks . The default value of the key ⌘ color is `teal`, and the default value of the key ⌘ weeks is determined by the argument of the command `\weeklist`. The first and second mandatory arguments are the start and end numbers of the course, respectively. The example of this command is shown in Appendix A

- If the course box's height is only one unit, that is ⟨*start number*⟩ = ⟨*end number*⟩, the values of keys ⌘ location and ⌘ teacher will print on the same line with a comma (,) separated, and the value of the key ⌘ weeks will be hidden.

- 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 box.

- course boxes that are out of the timetable will not display, and it will return a warning.

`\newday` `\newday [⟨intergal value⟩]`

This command has an optional argument that can move the course boxes right ⟨*intergal value*⟩ working days. The default value of the optional argument is 1 to move right 1 workday.

A   Minimal Working Example

The following MWE could generate a timetable of 13 lines but only the top 12 lines have been marked with time, and there are 5 workdays at the top of the timetable, ratios between them are $4 : 5 : 4 : 6 : 5$. The default value of the key ⌘ weeks will be set to `Weeks 1 - 16`. A comment and two course boxes are added.

```
\documentclass{litetable}


\begin{document}


\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
  }
\weeklist [ Weeks 1 - 16 ]
  {
    Mon -> 4, Tue -> 5, Wed -> 4, Thu -> 6, Fri -> 5
  }
\more { Author: Mingyu Xia \& Lijun Guo }


\begin{tikzpicture} [ remember picture, overlay ]
  \maketable
  \course [ subject = Keep on {\TeX}ing ] {10} {11}
  \newday
  \course [ color = DarkSlateGray, subject = litetable,
            location = Hong Kong, teacher = M.Y. Xia
          ] {8} {8}
\end{tikzpicture}


\end{document}
```

Skyrmion's Course Schedule

	🌑 MON	🔥 TUE	🌊 WED	🌲 THU	😀 FRI

1
08:05
08:50

2
08:55
09:40

usrguide
LaTeX Project Team
Weeks 7 - 14

3
10:00
10:45

4
10:50
11:35

interface3
The LaTeX Project

TikZ
The PGF/TikZ Team

5
11:40
12:25

Weeks 1 - 16

Weeks 1 - 16

6
13:30
14:15

7
14:20
15:05

8
15:15
16:00

expl3
The LaTeX Project

litetable
Hong Kong, M.Y. Xia

9
16:05
16:50

10
18:30
19:15

Keep on TEXing

11
19:20
20:05

Weeks 1 - 16

12
20:10
20:55

13