The litetable Class: Colorful Timetable *

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1 Introduction

The litetable class provides a design of timetable with colorful course blocks, which is based on the article class, and conducted on expl3 and tikz. It is compatible with the TEXLive 2021 or later distributions, they all work fine for pdfLATEX and XƎLATEX compilers. This is the Chinese manual for litetable class, the manual also provides Chinese and Cantonese versions[1].

2 Loading litetable and generate the timetable frame

Just like loading any class, write

```
\documentclass{litetable}
```

One can load 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*⟩`]` |

Each of the two commands above have two arguments. The optional argument of the command `\timelist` can directly assign the number of rows on the timetable, and that of the command `\weeklist` can determine the default number of weeks and print it at every course block'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.

If the number of time arrays received by the command `\timelist` is greater than the value received by the optional argument of it, 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[⟨semester⟩]{⟨title⟩}`   `\maketable{⟨title⟩}[⟨semester⟩]`

This command has two arguments that can create an empty timetable frame, and it should execute after command `\timelist` and `\weeklist` in the `tikzpicture` environment with the option of `[remember picture, overaly]`. The optional argument can add the semester block at the northeast corner of the page, and the mandatory argument can assign the title.

3   Add course blocks

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

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

This command has three arguments. The first 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 first argument of the command `\weeklist`. The second and third mandatory arguments are the start and end numbers of the course, respectively.

The following is an example of the command `\course`: Set the color of this course block to `DarkSlateGray`, the course name to `litetable`, the class location to `Hong Kong`, and the teacher to `M.Y. Xia`, starting from the 8th class and ending at the 8th class in the current day.

```
\course [ color = DarkSlateGray, subject = litetable,
          location = Hong Kong, teacher = M.Y. Xia
        ] {8} {8}
```

- If the course block'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 block.

- Course blocks 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 blocks right ⟨*intergal value*⟩ working days. The default value of the optional argument is 1 to move right 1 workday.

4 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 blocks 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 Timetable

	🌑 MON	🔥 TUE	🌊 WED	🌲 THU	🌕 FRI
1 08:05 08:50		usrguide			
2 08:55 09:40		LaTeX Project Team Weeks 7 - 14			
3 10:00 10:45				TikZ	
4 10:50 11:35				The PGF/TikZ Team	
5 11:40 12:25	interface3 The LaTeX Project			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					