The litetable Package — Colorful Timetable*

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1 Introduction

The litetable package provides a colorful design of timetable, developed by expl3 based on tikz. It supports various compilation methods, such as pdfLaTeX, XeLaTeX, ApLaTeX, LuaLaTeX, etc. Click to jump to the manual's [Chinese Version] [Cantonese Version].

2 Usage

To load this package, write the line

```
\usepackage{litetable}
```

`litetable` (*env.*) The `litetable` environment can create a blank timetable frame, and it should be executed after commands `\timelist` and `\weeklist`.

```
\begin{litetable} [⟨keys⟩] {⟨title⟩} [⟨keys⟩] ... \end{litetable}
```

The mandatory argument can set the title of the timetable, and the optional argument accepts the following keys

color = ⟨*string*⟩ can set the background color (Default: `gray`), this key's name could be omitted.

sem = ⟨*string*⟩ can set the semester information at the northeast corner of the page.

hline = ⟨*string*⟩ can set style of the horizontal lines (Default: `solid`).

`\weeklist` `\weeklist [⟨keys⟩] {⟨list⟩} [⟨keys⟩]`

The mandatory argument accepts an array to set a list of working days and the width of each column at the top of the timetable. The optional argument accepts the following keys

format = ⟨*format commands*⟩ can set the font for the list of working days (Default: `\bfseries`).

sep = ⟨*dim*⟩ can set the separator of the list of working days.

```
\weeklist [ format = \bfseries \scshape, sep = \textbar ]
  { Mon -> 1.05, Tue -> 1.05, Wed -> 1.1, Thu -> 1.1, Fri -> .9 }
```

*https://github.com/myhsia/litetable, https://ctan.org/pkg/litetable

†Lijun Guo developed an interface to parse ⟨*left*⟩ -> ⟨*right*⟩ data structures.

`\timelist` `\timelist [⟨keys⟩] {⟨list⟩} [⟨keys⟩]`

The mandatory argument accepts an array to set the time list on the left side of the timetable. The optional argument accepts the following keys

numformat = ⟨*format commands*⟩ can set the font for the sequence number of the time list (Default: `\ttfamily \bfseries`).

timefont = ⟨*format commands*⟩ can set the font for the time of the time list. (Default: `\ttfamily`).

hidetime = ⟨*true* | **false**⟩ hide the time in the time list and only retain the sequence number. The initial value is `false`.

```
\timelist [ numformat = \bfseries, timeformat = \ttfamily ]
  { 08:30 -> 10:00, 10:30 -> 12:00, 13:00 -> 14:30, 15:00 -> 16:30 }
```

`\course` `\course [⟨keys⟩] {⟨start⟩} [⟨keys⟩] {⟨end⟩} [⟨keys⟩]`

It's used to add course boxes on the current workday, and needs to be executed within the `litetable` environment. The two mandatory arguments can set the start and ends of the course respectively, the optional argument accepts the following keys

color = ⟨*string*⟩ can set the color of the course box (Default: `teal`), this key's name could be omitted.

subject = ⟨*string*⟩ can set the name of the course.

location = ⟨*string*⟩ can set the location of the course.

lecture = ⟨*string*⟩ can set the lecture of the course.

comment = ⟨*string*⟩ can add footnote to the course.

TEXhackers note:

- If ⟨*start*⟩ = ⟨*end*⟩ (the height of the course box is 1 unit), then **location** and **lecture** will be outputted in the same line and **comment** will be hidden.
- The template will correct automatically if ⟨*start*⟩ and ⟨*end*⟩ were misplaced.
- If neither **location** nor **lecture** is assigned value, then **subject** will be outputted in the vertical center of the course box.
- Course boxes that exceed the range of the timetable won't display and it will return a warning. The input example refers to Appendix A.

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

It can move the next course boxes right ⟨*integral value*⟩ working days. The default value of the optional argument is 1.

`\more` `\more {⟨comment⟩}`

It can add a comment at the southwest corner of the timetable.

A Working Example

```
\documentclass[svgnames, a4paper]{article}

\usepackage{litetable, twemojis}
\usepackage[mono = false]{libertine}
\usepackage[T1]{fontenc}

\begin{document}

\weeklist [ format = \bfseries \scshape, sep = \textbar ]
  {
    \texttwemoji{1f312} Mon -> 1.05, \texttwemoji{1f525} Tue -> 1.05,
    \texttwemoji{1f30a} Wed -> 1.1,  \texttwemoji{1f332} Thu -> .9,
    \texttwemoji{1fa99} Fri -> .9
  }
\timelist [ numformat = \ttfamily \bfseries, timeformat = \ttfamily ]
  {
    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
  }
\begin{litetable} [ DarkBlue, sem = SEM 7, hline = dashed ]
  {Course Schedule}
  \course [ subject = interface3, comment = \TeX\ Live 2025,
            lecture = The \LaTeX\ Project, DarkBlue ] {4} {5}
  \newday
  \course [ subject = expl3, lecture = The \LaTeX\ Project ] {8} {8}
  \newday
  \course [ subject = Keep on \TeX ing, lecture = Donald E. Knuth,
            location = Stanford University, Purple ] {10} {11}
  \newday
  \course [ subject = Ti\textit k\/Z, lecture = \textsc{pgf},
            Crimson, comment = Version 3.1.10 ] {3} {5}
  \more {Programme Duration: 09 / 2021 -- 07 / 2025}
\end{litetable}

\end{document}
```

Course Schedule

SEM 7

Mon	Tue	Wed	Thu	Fri

1
08:05
08:50

2
08:55
09:40

3
10:00
10:45

4
10:50
11:35

interface3
The LaTeX Project
TeX Live 2025

5
11:40
12:25

TikZ
PGF
Version 3.1.10

6
13:30
14:15

7
14:20
15:05

8
15:15
16:00

expl3
The LaTeX Project

9
16:05
16:50

10
18:30
19:15

Keep on TeXing
Stanford University
Donald E. Knuth

11
19:20
20:05

12
20:10
20:55

Programme Duration: 09 / 2021 – 07 / 2025

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