

The litetable Package — Colorful Timetable*

Mingyu Xia <myhsia@outlook.com | xiamingyu@westlake.edu.cn>[†]

Released 2025-08-18 v3.7A

1 Introduction

The litetable package provides a colorful design of timetable, developed by expl3 based on TikZ. It supports various compilation methods, such as pdf_{La}TeX, Xe_{La}TeX, Ap_{La}TeX, Lua_{La}TeX, 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

scale = *<float>* can set the scale of the timetable (Default: 1.0).

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.

T_EXhackers 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[osf, 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

5

11:40
12:25

6

13:30
14:15

7

14:20
15:05

8

15:15
16:00

9

16:05
16:50

10

18:30
19:15

11

19:20
20:05

12

20:10
20:55

interface3

The \LaTeX Project

\TeX Live 2025

TikZ

PGF

Version 3.1.10

expl3

The \LaTeX Project

Keep on \TeX Xing

Stanford University
Donald E. Knuth

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

	C		M		
\course	.....	2	\more	.....	2
	E		N		
environments:			\newday	.....	2
litetable	.....	1	T		
			\timelist	.....	1, 2
	L		W		
litetable (env.)	.....	1	\weeklist	.....	1