

# The litetable Package — Colorful Timetable<sup>‡</sup>

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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 pdfL<sup>A</sup>T<sub>E</sub>X, XeL<sup>A</sup>T<sub>E</sub>X, ApL<sup>A</sup>T<sub>E</sub>X, LuaL<sup>A</sup>T<sub>E</sub>X, etc. Click to jump to the manual's [\[Chinese Version\]](#) [\[Cantonese Version\]](#).

## 2 Usage

To load this package, write the line

```
\usepackage [scale = <fp num> ] {litetable}
```

`litetable (env)` The **scale** key can set the scale of the timetable (Default: 1.0). 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).

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```
\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 }
```

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

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

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`\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`).

**timeformat** = *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<sub>E</sub>Xhackers 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 3.

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`\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.

### 3 Working Example

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

\usepackage[scale = .9]{litetable}
\usepackage{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 L<sup>A</sup>T<sub>E</sub>X Project

T<sub>E</sub>X Live 2025

**TikZ**

PGF

Version 3.1.10

**expl3**

The L<sup>A</sup>T<sub>E</sub>X Project

**Keep on T<sub>E</sub>Xing**

Stanford University  
Donald E. Knuth

Programme Duration: 09 / 2021 – 07 / 2025

## A The Source Code

Start the optionlist package for l3docstrip.

```
1 <*package>
2 <@@=ltbl>
3 \ProvidesExplPackage {litetable} {2026-02-07} {v3.9A}
4   {A Colorful Timetable Design}
5 \RequirePackage{tikz}
```

Warning Broadcast

```
6 \cs_new_protected:Npn \__ltbl_msg_new:nn #1#2
7   { \msg_new:nnn { litetable } {#1} {#2} }
8 \cs_new_protected:Npn \__ltbl_msg_warning:n #1
9   { \msg_warning:nn { litetable } {#1} }
10 \__ltbl_msg_new:nn { course }
11   { \exp_not:N \course ~ box(s) ~ exceed ~ workdays ~ were ~ ignored }
```

```
\__ltbl_get_left:nN Handle <left> -> <right> data structures (by Lijun Guo)
\__ltbl_get_left:eN
\__ltbl_get_right:nN
\__ltbl_get_right:eN
12 \cs_new_protected_nopar:Npn \__ltbl_get_left:nN #1#2
13   {
14     \group_begin: \seq_set_split:Nnn \l__ltbl_tmpa_seq { -> } {#1}
15     \exp_args:NNNe \group_end:
16     \tl_set:Nn #2 { \seq_item:Nn \l__ltbl_tmpa_seq { 1 } }
17   }
18 \cs_new_protected_nopar:Npn \__ltbl_get_right:nN #1#2
19   {
20     \group_begin: \seq_set_split:Nnn \l__ltbl_tmpa_seq { -> } {#1}
21     \exp_args:NNNe \group_end:
22     \tl_set:Nn #2 { \seq_item:Nn \l__ltbl_tmpa_seq { 2 } }
23   }
24 \cs_generate_variant:Nn \__ltbl_get_left:nN { eN }
25 \cs_generate_variant:Nn \__ltbl_get_right:nN { eN }
```

(End of definition for \\_\_ltbl\_get\_left:nN and \\_\_ltbl\_get\_right:nN.)

### A.1 User's Interface

```
\l__ltbl_textwidth_dim Dimensions for the physical width and height of the timetable and margin, controlled by
\l__ltbl_textheight_dim \l__@@_scale_fp in package option.
\l__ltbl_reswidth_dim
\l__ltbl_resheight_dim
26 \dim_new:N \l__ltbl_textwidth_dim
27 \dim_new:N \l__ltbl_textheight_dim
28 \dim_new:N \l__ltbl_reswidth_dim
29 \dim_new:N \l__ltbl_resheight_dim
30 \keys_define:nn { litetable / pkgoption }
31   {
32     scale .fp_set:N = \l__ltbl_scale_fp,
33     scale .initial:n = 1.0,
34     unknown .code:n = \__ltbl_unknown_option:n {#1}
35   }
```

(End of definition for \l\_\_ltbl\_textwidth\_dim and others.)

```
\__ltbl_unknown_option:n Handel the unknown options.
```

```

\g__ltbl_base_options_clist 36 \clist_new:N \g__ltbl_base_options_clist
37 \cs_new_protected_nopar:Npn \__ltbl_unknown_option:n #1
38 {
39   \tl_if_empty:nTF {#1}
40   {
41     \clist_gput_right:NV
42     \g__ltbl_base_options_clist \l_keys_key_str
43   }
44   {
45     \exp_args:NNx
46     \clist_gput_right:Nn \g__ltbl_base_options_clist
47     { \l_keys_key_str = \exp_not:n {#1} }
48   }
49 }

```

(End of definition for `\__ltbl_unknown_option:n` and `\g__ltbl_base_options_clist`.)

Process the package option.

```

50 \ProcessKeyOptions [ litetable / pkgoption ]
51 \dim_gset:Nn \l__ltbl_textwidth_dim
52 { \fp_eval:n { \l__ltbl_scale_fp } \paperwidth }
53 \dim_gset:Nn \l__ltbl_textheight_dim
54 { \fp_eval:n { \l__ltbl_scale_fp } \paperheight }
55 \dim_gset:Nn \l__ltbl_reswidth_dim
56 { \fp_eval:n { 1 - \l__ltbl_scale_fp } \paperwidth /2 }
57 \dim_gset:Nn \l__ltbl_resheight_dim
58 { \fp_eval:n { 1 - \l__ltbl_scale_fp } \paperheight/2 }

```

**`\weeklist`** Set a list of working days and the width of each column at the top of the timetable.

```

59 \NewDocumentCommand \weeklist { O{} m O{} }
60 {
61   \keys_set:nn { litetable / weeklist } { #1, #3 }
62   \__ltbl_weeklist:n {#2}
63 }

```

Key–value definitions for the `\weeklist` command.

```

\l__ltbl_weeklist_format_tl 64 \keys_define:nn { litetable / weeklist }
\l__ltbl_weeklist_sep_tl    65 {
66   format .tl_set:N = \l__ltbl_weeklist_format_tl,
67   format .initial:n = \bfseries,
68   sep     .tl_set:N = \l__ltbl_weeklist_sep_tl
69 }

```

(End of definition for `\weeklist`, `\l__ltbl_weeklist_format_tl`, and `\l__ltbl_weeklist_sep_tl`. This function is documented on page 1.)

**`\timelist`** Set the time list on the left side of the timetable.

```

70 \NewDocumentCommand \timelist { O{} m O{} }
71 {
72   \keys_set:nn { litetable / timelist } { #1, #3 }
73   \__ltbl_timelist:n {#2}
74 }

```

Key-value definitions for the `\timelist` command.

```

\l__tbl__timelist_numformat_tl 75 \keys_define:nn { litetable / timelist }
\l__tbl__timelist_timeformat_tl 76 {
\l__tbl__timelist_hidetime_bool 77   numformat .tl_set:N = \l__tbl__timelist_numformat_tl,
78   numformat .initial:n = \ttfamily \bfseries,
79   timeformat .tl_set:N = \l__tbl__timelist_timeformat_tl,
80   timeformat .initial:n = \ttfamily,
81   hidetime .bool_set:N = \l__tbl__timelist_hidetime_bool,
82   hidetime .initial:n = false,
83   hidetime .default:n = true
84 }

```

(End of definition for `\timelist` and others. This function is documented on page 2.)

`litetable (env)` Create a blank timetable frame.

```

85 \NewDocumentEnvironment { litetable } { 0{ } m 0{ } }
86 {
87   \clearpage \thispagestyle{empty}
88   \group_begin:
89   \keys_set:nn { litetable / frame } { #1, #3 }
90   \tikzpicture [ remember ~ picture, overlay ]
91     \__tbl__maketable:n {#2}
92 } { \endtikzpicture \group_end: \clearpage }

```

Key-value definitions for the `litetable` command.

```

\l__tbl__bg_color_tl 93 \keys_define:nn { litetable / frame }
\l__tbl__hline_type_tl 94 {
  \l__tbl__bg_sem_tl 95   color .tl_set:N = \l__tbl__bg_color_tl,
96   color .initial:n = gray,
97   hline .tl_set:N = \l__tbl__hline_type_tl,
98   hline .initial:n = solid,
99   sem .tl_set:N = \l__tbl__bg_sem_tl,
100  unknown .code:n = \tl_if_novalue:nF {#1}
101    { \tl_set_eq:NN \l__tbl__bg_color_tl \l_keys_key_tl }
102 }

```

(End of definition for `\l__tbl__bg_color_tl`, `\l__tbl__hline_type_tl`, and `\l__tbl__bg_sem_tl`.)

**`\course`** Add course boxes on the current workday

```

103 \NewDocumentCommand \course { 0{ } m 0{ } m 0{ } }
104 {
105   \group_begin:
106   \bool_lazy_any:nTF
107     {
108       {
109         \int_compare_p:nNn { \l__tbl__weekday_int } >
110         { \clist_count:N \l__tbl__week_clist }
111       }
112       { \int_compare_p:nNn {#2} > { \clist_count:N \l__tbl__time_clist } }
113       { \int_compare_p:nNn {#4} > { \clist_count:N \l__tbl__time_clist } }
114     } { \__tbl__msg_warning:n { course } }
115   {
116     \keys_set:nn { litetable / course } { #1, #3, #5 }
117     \int_compare:nNnTF {#2} < {#4}

```

```

118         { \l__ltbl_course_box_aux:nn {#2} {#4} }
119         { \l__ltbl_course_box_aux:nn {#4} {#2} }
120     }
121 \group_end:
122 }

```

Key-value definitions for the `\course` command.

```

\l__ltbl_course_color_tl
\l__ltbl_course_subject_tl
\l__ltbl_course_lecture_tl
\l__ltbl_course_location_tl
\l__ltbl_course_comment_tl
123 \keys_define:nn { litetable / course }
124 {
125     color .tl_set:N = \l__ltbl_course_color_tl,
126     color .initial:n = black,
127     subject .tl_set:N = \l__ltbl_course_subject_tl,
128     lecture .tl_set:N = \l__ltbl_course_lecture_tl,
129     location .tl_set:N = \l__ltbl_course_location_tl,
130     comment .tl_set:N = \l__ltbl_course_comment_tl,
131     unknown .code:n = \tl_if_novalue:nF {#1}
132     { \tl_set_eq:NN \l__ltbl_course_color_tl \l_keys_key_tl }
133 }

```

*(End of definition for `\course` and others. This function is documented on page 2.)*

**\more** Add a comment at the southwest corner of the timetable.

```

134 \NewDocumentCommand \more { m }
135 {
136     \node [ yshift = .5\l__ltbl_time_vunit_dim, left = 1ex,
137           darkgray, font = \small \bfseries
138           ] at ([shift =
139               {(-\l__ltbl_reswidth_dim, \l__ltbl_resheight_dim)}
140               ]current ~ page.south ~ east) {#1};
141 }

```

*(End of definition for `\more`. This function is documented on page 2.)*

**\newday** Move the next course boxes right  $\langle$ integral value $\rangle$  working days.

```

142 \NewDocumentCommand \newday { 0{1} } { \int_add:Nn \l__ltbl_weekday_int {#1} }
143 \int_new:N \l__ltbl_weekday_int
144 \int_set:Nn \l__ltbl_weekday_int { 1 }

```

*(End of definition for `\newday`. This function is documented on page 2.)*

## A.2 Internal Auxiliary

`\l__ltbl_week_ratio_clist` The ratios of every working days, the accumulation of the ratios of every working days, the sequence number of every working days, the horizontal width unit of the timetable.

```

\l__ltbl_week_accum_clist
\l__ltbl_week_num_fp
\l__ltbl_week_hunit_dim
145 \clist_new:N \l__ltbl_week_ratio_clist
146 \clist_new:N \l__ltbl_week_accum_clist
147 \fp_new:N \l__ltbl_week_num_fp
148 \dim_new:N \l__ltbl_week_hunit_dim

```

*(End of definition for `\l__ltbl_week_ratio_clist` and others.)*



`\_l\_tbl\_weeklist:n` Define the auxiliary command of `\weeklist`.

```

149 \cs_new_protected_nopar:Npn \_l\_tbl\_weeklist:n #1
150 {
151   \clist_set:Nn \l\_tbl\_week\_clist {#1}
152   \exp_args:Nnf \clist_map_inline:Nn \l\_tbl\_week\_clist
153     {
154       \_l\_tbl\_get\_right:eN {##1} \l\_tbl\_tmpb\_tl
155       \clist\_put\_right:Ne \l\_tbl\_week\_ratio\_clist { \l\_tbl\_tmpb\_tl }
156     }
157   \int\_step\_inline:nn { \clist\_count:N \l\_tbl\_week\_clist }
158     {
159       \clist\_clear:N \l\_tbl\_week\_accumtmp\_clist
160       \int\_step\_inline:nn {##1}
161         {
162           \clist\_put\_right:Ne \l\_tbl\_week\_accumtmp\_clist
163             { \clist\_item:Nn \l\_tbl\_week\_ratio\_clist {####1} }
164         }
165       \clist\_put\_right:Ne \l\_tbl\_week\_accum\_clist
166         { \fp\_eval:n { \clist\_use:Nn \l\_tbl\_week\_accumtmp\_clist { + } } }
167     }
168   \fp\_set:Nn \l\_tbl\_week\_num\_fp
169     {
170       \clist\_item:Nn \l\_tbl\_week\_accum\_clist
171         { \clist\_count:N \l\_tbl\_week\_clist }
172     }
173   \dim\_set:Nn \l\_tbl\_week\_hunit\_dim
174     { \fp\_eval:n { 14/\l\_tbl\_week\_num\_fp/15 } \l\_tbl\_textwidth\_dim }
175 }

```

*(End of definition for `\_l\_tbl\_weeklist:n`.)*

`\l\_tbl\_time\_num\_int` The sequence number of the time list, and the vertical gap between the start and end time.

`\l\_tbl\_time\_vunit\_dim`

```

176 \int\_new:N \l\_tbl\_time\_num\_int
177 \dim\_new:N \l\_tbl\_time\_vunit\_dim

```

*(End of definition for `\l\_tbl\_time\_num\_int` and `\l\_tbl\_time\_vunit\_dim`.)*

`\_l\_tbl\_timelist:n` Define the auxiliary command of `\timelist`.

```

178 \cs_new_protected_nopar:Npn \_l\_tbl\_timelist:n #1
179 {
180   \clist\_set:Nn \l\_tbl\_time\_clist {#1}
181   \int\_set:Nn \l\_tbl\_time\_num\_int { \clist\_count:N \l\_tbl\_time\_clist }
182   \dim\_set:Nn \l\_tbl\_time\_vunit\_dim
183     { \fp\_eval:n { 1/(2\l\_tbl\_time\_num\_int + 3.5) } \l\_tbl\_textheight\_dim }
184 }

```

*(End of definition for `\_l\_tbl\_timelist:n`.)*

`\l\_tbl\_timelist\_shift\_dim` Store the vertical shift of the sequence number of the time list.

```

185 \dim\_new:N \l\_tbl\_timelist\_shift\_dim

```

*(End of definition for `\l\_tbl\_timelist\_shift\_dim`.)*

`\__lttbl_maketable:n` Define the auxiliary command of the litetable environment.

```

186 \cs_new_protected_nopar:Npn \__lttbl_maketable:n #1
187 {
188   \fill [ \l__lttbl_bg_color_tl!5 ]
189     ([shift =
190       {(\l__lttbl_reswidth_dim, -\l__lttbl_resheight_dim)}
191       ]current ~ page.north ~ west) rectangle +
192     (\l__lttbl_textwidth_dim, -1.5\l__lttbl_time_vunit_dim)
193     node [ midway, black, font = \huge \bfseries ] {#1};
194   \tl_if_empty:NF \l__lttbl_bg_sem_tl
195     {
196       \node [ shift = {(-.02\paperwidth, -.75\l__lttbl_time_vunit_dim)},
197             left, rectangle, fill = DarkBlue!10, text = DarkBlue!60,
198             inner ~ sep = 2ex, rounded ~ corners = 8pt, font = \large
199             ] at ([shift =
200               {(-\l__lttbl_reswidth_dim, -\l__lttbl_resheight_dim)}
201               ]current ~ page.north ~ east) { \l__lttbl_bg_sem_tl };
202     }
203   \int_step_inline:nmmn { 0 } { 2 } { \l__lttbl_time_num_int }
204   {
205     \bool_lazy_and:nnTF
206     { \int_if_even_p:n { \l__lttbl_time_num_int } }
207     { \int_compare_p:nNn { ##1 } = { \l__lttbl_time_num_int } }
208     {
209       \filldraw [ fill = \l__lttbl_bg_color_tl!5, thick,
210                 draw = gray, \l__lttbl_hline_type_tl ]
211         ([shift = {(
212           {-.4pt + \l__lttbl_reswidth_dim},
213           {\fp_eval:n { -2 * ##1 - 2.5 } \l__lttbl_time_vunit_dim
214             - \l__lttbl_resheight_dim}})
215         ]current ~ page.north ~ west
216         ) rectangle
217         ([shift =
218           {(.4pt - \l__lttbl_reswidth_dim, .4pt + \l__lttbl_resheight_dim)}
219           ]current ~ page.south ~ east);
220     }
221   {
222     \filldraw [ fill = \l__lttbl_bg_color_tl!5, thick,
223               draw = gray, \l__lttbl_hline_type_tl ]
224       ([shift = {(
225         {-.4pt + \l__lttbl_reswidth_dim},
226         {\fp_eval:n { -2 * ##1 - 2.5 } \l__lttbl_time_vunit_dim
227           - \l__lttbl_resheight_dim}})
228       ]current ~ page.north ~ west
229       ) rectangle +
230       (\l__lttbl_textwidth_dim + .8pt, -2\l__lttbl_time_vunit_dim);
231     }
232   }
233   \bool_if:NTF \l__lttbl_timelist_hidetime_bool
234   {
235     \dim_set:Nn \l__lttbl_timelist_shift_dim
236     { -1.5\l__lttbl_time_vunit_dim }
237   }
238   {

```

```

239     \dim_set:Nn \l__ltbl_timelist_shift_dim
240     { -\l__ltbl_time_vunit_dim }
241   }
242   \int_step_inline:nn { \l__ltbl_time_num_int }
243   {
244     \node [ darkgray!80, shift =
245           {(
246             \l__ltbl_textwidth_dim/30,
247             -2 * ##1 \l__ltbl_time_vunit_dim +
248             \l__ltbl_timelist_shift_dim
249           )}, font = \large \l__ltbl_timelist_numformat_tl
250     ] at ([shift =
251           {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
252           ]current ~ page.north ~ west) {##1};
253   }
254   \bool_if:NF \l__ltbl_timelist_hidetime_bool
255   {
256     \int_step_inline:nn { \clist_count:N \l__ltbl_time_clist }
257     {
258       \__ltbl_get_left:eN { \clist_item:Nn \l__ltbl_time_clist {##1} }
259       \l__ltbl_tmpa_tl
260       \__ltbl_get_right:eN { \clist_item:Nn \l__ltbl_time_clist {##1} }
261       \l__ltbl_tmpb_tl
262       \node [ gray, align = center, shift =
263             {(
264               \l__ltbl_textwidth_dim/30,
265               \fp_eval:n { -1.85 - 2 * ##1 } \l__ltbl_time_vunit_dim
266             )}, font = \l__ltbl_timelist_timeformat_tl
267       ] at ([shift =
268             {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
269             ]current ~ page.north ~ west)
270       { \l__ltbl_tmpa_tl\ \l__ltbl_tmpb_tl };
271     }
272   }
273   \int_step_inline:nn { \clist_count:N \l__ltbl_week_clist }
274   {
275     \int_compare:nNnF {##1} = { \clist_count:N \l__ltbl_week_clist }
276     {
277       \node [ shift =
278             {(\fp_eval:n
279               {
280                 14 * \clist_item:Nn \l__ltbl_week_accum_clist {##1}/
281                 \l__ltbl_week_num_fp/15 + 1/15
282               } \l__ltbl_textwidth_dim, -2\l__ltbl_time_vunit_dim
283             )}, darkgray, font = \ttfamily
284       ] at ([shift =
285             {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
286             ]current ~ page.north ~ west)
287       { \l__ltbl_weeklist_sep_tl };
288     }
289     \__ltbl_get_left:eN { \clist_item:Nn \l__ltbl_week_clist {##1} }
290     \l__ltbl_tmpa_tl
291     \node [ shift =
292           {(\fp_eval:n

```

```

293         {
294             14(
295                 \clist_item:Nn \l__ltbl_week_accum_clist {##1} -
296                 \clist_item:Nn \l__ltbl_week_ratio_clist {##1}/2
297                 )/\l__ltbl_week_num_fp/15 + 1/15
298             } \l__ltbl_textwidth_dim, -2\l__ltbl_time_vunit_dim
299         )}, font = \large \l__ltbl_weeklist_format_tl
300     ] at ([shift =
301         {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
302         ]current ~ page.north ~ west) { \l__ltbl_tmpa_tl };
303     }
304     \draw [ gray, very ~ thick ]
305         ([shift =
306             {(-.4pt +\l__ltbl_reswidth_dim}, {-0.4pt -\l__ltbl_resheight_dim})}
307         ]current ~ page.north ~ west) rectangle
308         ([shift =
309             {(0.4pt - \l__ltbl_reswidth_dim}, {0.4pt + \l__ltbl_resheight_dim})}
310         ]current ~ page.south ~ east);
311 }

```

(End of definition for \\_\_ltbl\_maketable:n)

\l\_\_ltbl\_course\_shift\_dim Store the vertical shift of the course subject in course box.

```

312 \dim_new:N \l__ltbl_course_shift_dim

```

(End of definition for \l\_\_ltbl\_course\_shift\_dim)

\\_\_ltbl\_course\_box\_aux:nn Define the auxiliary command of \course.

```

313 \cs_new_protected_nopar:Npn \__ltbl_course_box_aux:nn #1#2
314 {
315     \begin{scope}
316         \clip [ preaction = { draw, ultra ~ thick, \l__ltbl_course_color_tl!60 },
317                 preaction = { fill, \l__ltbl_course_color_tl!10 },
318                 rounded ~ corners = 8pt ]
319             ([shift =
320                 {(
321                     \fp_eval:n
322                     {
323                         \clist_item:Nn \l__ltbl_week_accum_clist
324                         { \l__ltbl_weekday_int } -
325                         \clist_item:Nn \l__ltbl_week_ratio_clist
326                         { \l__ltbl_weekday_int }
327                     } \l__ltbl_week_hunit_dim + \l__ltbl_textwidth_dim/15
328                     + \l__ltbl_reswidth_dim + 1.2pt,
329                     \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim
330                     - \l__ltbl_resheight_dim - 1.2pt
331                 )}]current ~ page.north ~ west) rectangle +
332             (
333                 \clist_item:Nn \l__ltbl_week_ratio_clist
334                 { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim - 2.4pt,
335                 \fp_eval:n { 2(#1 - #2 - 1) } \l__ltbl_time_vunit_dim + 2.4pt
336             );
337         \fill [ \l__ltbl_course_color_tl!60 ]
338             ([shift =
339                 {(

```

```

340     \fp_eval:n
341     {
342         \clist_item:Nn \l__ltbl_week_accum_clist
343         { \l__ltbl_weekday_int } -
344         \clist_item:Nn \l__ltbl_week_ratio_clist
345         { \l__ltbl_weekday_int }
346         } \l__ltbl_week_hunit_dim
347     + \l__ltbl_reswidth_dim + \l__ltbl_textwidth_dim/15,
348     \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim
349     - \l__ltbl_resheight_dim
350 )}]current ~ page.north ~ west) rectangle +
351 (
352     \clist_item:Nn \l__ltbl_week_ratio_clist
353     { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim,
354     -\l__ltbl_time_vunit_dim/2
355 );
356 \end{scope}
357 \int_compare:nNnTF {#1} = {#2}
358 {
359     \bool_lazy_and:nnTF
360     { \tl_if_empty_p:N \l__ltbl_course_location_tl }
361     { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
362     { \tl_set:Nn \l__ltbl_course_anchor_tl { } }
363     { \tl_set:Nn \l__ltbl_course_anchor_tl { above } }
364 \node
365 [ \l__ltbl_course_anchor_tl, \l__ltbl_course_color_tl!60, shift =
366     {(
367         \fp_eval:n
368         {
369             \clist_item:Nn \l__ltbl_week_accum_clist
370             { \l__ltbl_weekday_int } -
371             \clist_item:Nn \l__ltbl_week_ratio_clist
372             { \l__ltbl_weekday_int }/2
373             } \l__ltbl_week_hunit_dim + \l__ltbl_textwidth_dim/15,
374             \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
375         )}, align = center, font = \bfseries
376     ] at ([shift =
377         {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
378         ]current ~ page.north ~ west) { \l__ltbl_course_subject_tl };
379 \bool_lazy_or:nnTF
380 { \tl_if_empty_p:N \l__ltbl_course_location_tl }
381 { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
382 { \tl_set:Nn \l__ltbl_s@course_sep_tl { } }
383 { \tl_set:Nn \l__ltbl_s@course_sep_tl { ,~ } }
384 \node
385 [ shift =
386     {(
387         \fp_eval:n
388         {
389             \clist_item:Nn \l__ltbl_week_accum_clist
390             { \l__ltbl_weekday_int } -
391             \clist_item:Nn \l__ltbl_week_ratio_clist
392             { \l__ltbl_weekday_int }/2
393             } \l__ltbl_week_hunit_dim + \l__ltbl_textwidth_dim/15,

```

```

394         \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
395     }}, below, \l__ltbl_course_color_tl!60, align = center
396 ] at ([shift =
397     {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
398     ]current ~ page.north ~ west)
399 {
400     \l__ltbl_course_location_tl
401     \l__ltbl_s@course_sep_tl
402     \l__ltbl_course_lecture_tl
403 };
404 }
405 {
406     \bool_lazy_and:nnTF
407     { \tl_if_empty_p:N \l__ltbl_course_location_tl }
408     { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
409     {
410         \tl_set:Nn \l__ltbl_course_anchor_tl { }
411         \dim_set:Nn \l__ltbl_course_shift_dim { 0pt }
412     }
413     {
414         \tl_set:Nn \l__ltbl_course_anchor_tl { above }
415         \dim_set:Nn \l__ltbl_course_shift_dim { \l__ltbl_time_vunit_dim/8 }
416     }
417     \node
418     [ \l__ltbl_course_color_tl!60, align = center, shift =
419     {(
420         \fp_eval:n
421         {
422             \clist_item:Nn \l__ltbl_week_accum_clist
423             { \l__ltbl_weekday_int } -
424             \clist_item:Nn \l__ltbl_week_ratio_clist
425             { \l__ltbl_weekday_int }/2
426             } \l__ltbl_week_hunit_dim + \l__ltbl_textwidth_dim/15,
427         \fp_eval:n { -1.5 - #1 - #2 } \l__ltbl_time_vunit_dim +
428         \l__ltbl_course_shift_dim
429     )}, font = \large \bfseries, \l__ltbl_course_anchor_tl
430     ] at ([shift =
431         {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
432         ]current ~ page.north ~ west) { \l__ltbl_course_subject_tl };
433     \bool_lazy_or:nnTF
434     { \tl_if_empty_p:N \l__ltbl_course_location_tl }
435     { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
436     { \tl_set:Nn \l__ltbl_course_sep_tl { } }
437     { \tl_set:Nn \l__ltbl_course_sep_tl { \ } }
438     \node
439     [ shift =
440     {(
441         \fp_eval:n
442         {
443             \clist_item:Nn \l__ltbl_week_accum_clist
444             { \l__ltbl_weekday_int } -
445             \clist_item:Nn \l__ltbl_week_ratio_clist
446             { \l__ltbl_weekday_int }/2
447             } \l__ltbl_week_hunit_dim + \l__ltbl_textwidth_dim/15,

```

```

448         \fp_eval:n { -1.625 - #1 - #2 } \l__tbl_time_vunit_dim
449     )}, below, \l__tbl_course_color_tl!60, align = center
450 ] at ([shift =
451     {(\l__tbl_reswidth_dim, -\l__tbl_resheight_dim)}
452     ]current ~ page.north ~ west)
453 {
454     \l__tbl_course_location_tl
455     \l__tbl_course_sep_tl
456     \l__tbl_course_lecture_tl
457 };
458 \node
459 [ shift =
460     {(
461         \clist_item:Nn \l__tbl_week_accum_clist
462         { \l__tbl_weekday_int } \l__tbl_week_hunit_dim +
463         \l__tbl_textwidth_dim/15,
464         \fp_eval:n { -2.5 - 2 * #2 } \l__tbl_time_vunit_dim
465     )}, above ~ left, \l__tbl_course_color_tl!60, outer ~ sep = .5ex
466 ] at ([shift =
467     {(\l__tbl_reswidth_dim, -\l__tbl_resheight_dim)}
468     ]current ~ page.north ~ west) { \l__tbl_course_comment_tl };
469 }
470 }

```

(End of definition for \\_\_tbl\_course\_box\_aux:nn.)

471 \file\_input\_stop:

End the optionlist package for l3docstrip.

472 </package>

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