

# The litetable Package — Colorful Timetable\*

Mingyu Xia <[xiamingyu@westlake.edu.cn](mailto:xiamingyu@westlake.edu.cn)><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 pdf<sub>La</sub>TeX, Xe<sub>La</sub>TeX, Ap<sub>La</sub>TeX, Lua<sub>La</sub>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>

<sup>†</sup>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`).

**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.

---

`\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{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  $\TeX$ ing**

Stanford University  
Donald E. Knuth

## A The Source Code

```

1 <*package>
2 <@@=ltbl>
3 \ProvidesExplPackage {litetable} {2025-09-23} {v3.8A}
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

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

```

26 \NewDocumentCommand \weeklist { O{} m O{} }
27   {
28     \keys_set:nn { litetable / weeklist } { #1, #3 }
29     \__ltbl_weeklist:n {#2}
30   }

```

Key-value definitions for the \weeklist command.

```

\l__ltbl_weeklist_format_tl
\l__ltbl_weeklist_sep_tl
31 \keys_define:nn { litetable / weeklist }
32   {
33     format .tl_set:N = \l__ltbl_weeklist_format_tl,
34     format .initial:n = \bfseries,
35     sep .tl_set:N = \l__ltbl_weeklist_sep_tl
36   }

```

(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.

```
37 \NewDocumentCommand \timelist { 0{} m 0{} }
38 {
39   \keys_set:nn { litetable / timetable } { #1, #3 }
40   \__ltbl_timelist:n {#2}
41 }
```

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

```
\l__ltbl_timelist_numformat_tl
\l__ltbl_timelist_timeformat_tl
\l__ltbl_timelist_hidetime_bool
42 \keys_define:nn { litetable / timetable }
43 {
44   numformat .tl_set:N = \l__ltbl_timelist_numformat_tl,
45   numformat .initial:n = \ttfamily \bfseries,
46   timeformat .tl_set:N = \l__ltbl_timelist_timeformat_tl,
47   timeformat .initial:n = \ttfamily,
48   hidetime .bool_set:N = \l__ltbl_timelist_hidetime_bool,
49   hidetime .initial:n = false,
50   hidetime .default:n = true
51 }
```

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

`\l__ltbl_textwidth_dim` `\l__ltbl_textheight_dim` Dimensions for the physical width and height of the timetable, controlled by `\l__@_scale_fp`.

```
52 \dim_new:N \l__ltbl_textwidth_dim
53 \dim_new:N \l__ltbl_textheight_dim
```

*(End of definition for `\l__ltbl_textwidth_dim` and `\l__ltbl_textheight_dim`.)*

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

```
54 \NewDocumentEnvironment { litetable } { 0{} m 0{} }
55 {
56   \clearpage \thispagestyle{empty}
57   \group_begin:
58   \dim_gset:Nn \l__ltbl_textwidth_dim
59     { \fp_eval:n { \l__ltbl_scale_fp } \paperwidth }
60   \dim_gset:Nn \l__ltbl_textheight_dim
61     { \fp_eval:n { \l__ltbl_scale_fp } \paperheight }
62   \keys_set:nn { litetable / frame } { #1, #3 }
63   \tikzpicture [ remember-picture, overlay ]
64     \__ltbl_maketable:n {#2}
65 } { \endtikzpicture \group_end: \clearpage }
```

Key-value definitions for the `litetable` command.

```
\l__ltbl_scale_fp
\l__ltbl_bg_color_tl
\l__ltbl_hline_type_tl
\l__ltbl_bg_sem_tl
66 \keys_define:nn { litetable / frame }
67 {
68   scale .fp_set:N = \l__ltbl_scale_fp,
69   scale .initial:n = 1.0,
70   color .tl_set:N = \l__ltbl_bg_color_tl,
71   color .initial:n = gray,
72   hline .tl_set:N = \l__ltbl_hline_type_tl,
73   hline .initial:n = solid,
74   sem .tl_set:N = \l__ltbl_bg_sem_tl,
75   unknown .code:n = \tl_if_novalue:nF {#1}
76     { \tl_set_eq:NN \l__ltbl_bg_color_tl \l_keys_key_tl }
77 }
```

(End of definition for `\l__tbl_scale_fp` and others.)

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

```

78 \NewDocumentCommand \course { 0{ } m 0{ } m 0{ } }
79   {
80     \group_begin:
81     \bool_lazy_any:nTF
82       {
83         {
84           \int_compare_p:nNn { \l__tbl_weekday_int } >
85             { \clist_count:N \l__tbl_week_clist }
86         }
87         { \int_compare_p:nNn {#2} > { \clist_count:N \l__tbl_time_clist } }
88         { \int_compare_p:nNn {#4} > { \clist_count:N \l__tbl_time_clist } }
89       } { \__tbl_msg_warning:n { course } }
90     {
91       \keys_set:nn { litetable / course } { #1, #3, #5 }
92       \int_compare:nNnTF {#2} < {#4}
93         { \__tbl_course_box_aux:nn {#2} {#4} }
94         { \__tbl_course_box_aux:nn {#4} {#2} }
95     }
96     \group_end:
97   }

```

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

```

\l__tbl_course_color_tl
\l__tbl_course_subject_tl
\l__tbl_course_lecture_tl
\l__tbl_course_location_tl
\l__tbl_course_comment_tl
98 \keys_define:nn { litetable / course }
99   {
100     color .tl_set:N = \l__tbl_course_color_tl,
101     color .initial:n = black,
102     subject .tl_set:N = \l__tbl_course_subject_tl,
103     lecture .tl_set:N = \l__tbl_course_lecture_tl,
104     location .tl_set:N = \l__tbl_course_location_tl,
105     comment .tl_set:N = \l__tbl_course_comment_tl,
106     unknown .code:n = \tl_if_novalue:nF {#1}
107       { \tl_set_eq:NN \l__tbl_course_color_tl \l_keys_key_tl }
108   }

```

(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.

```

109 \NewDocumentCommand \more { m }
110   {
111     \node [ yshift = .5\l__tbl_time_vunit_dim, left = 1ex,
112           darkgray, font = \small \bfseries
113           ] at (current~page.south~east) {#1};
114   }

```

(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.

```

115 \NewDocumentCommand \newday { 0{1} } { \int_add:Nn \l__tbl_weekday_int {#1} }
116 \int_new:N \l__tbl_weekday_int
117 \int_set:Nn \l__tbl_weekday_int { 1 }

```

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

## A.2 Internal Auxiliary

`\l__tbl_week_ratio_clist` The ratios of every working days, the accumulation of the ratios of every working days, the  
`\l__tbl_week_accum_clist` sequence number of every working days, the horizontal width unit of the timetable.  
`\l__tbl_week_num_fp` 118 `\clist_new:N \l__tbl_week_ratio_clist`  
`\l__tbl_week_hunit_dim` 119 `\clist_new:N \l__tbl_week_accum_clist`  
120 `\fp_new:N \l__tbl_week_num_fp`  
121 `\dim_new:N \l__tbl_week_hunit_dim`

*(End of definition for \l\_\_tbl\_week\_ratio\_clist and others.)*

`\__tbl_weeklist:n` Define the auxiliary command of `\weeklist`.  
122 `\cs_new_protected_nopar:Npn \__tbl_weeklist:n #1`  
123 `{`  
124 `\clist_set:Nn \l__tbl_week_clist {#1}`  
125 `\exp_args:Nnf \clist_map_inline:Nn \l__tbl_week_clist`  
126 `{`  
127 `\__tbl_get_right:eN {##1} \l__tbl_tmpb_tl`  
128 `\clist_put_right:Ne \l__tbl_week_ratio_clist { \l__tbl_tmpb_tl }`  
129 `}`  
130 `\int_step_inline:mn { \clist_count:N \l__tbl_week_clist }`  
131 `{`  
132 `\clist_clear:N \l__tbl_week_accumtmp_clist`  
133 `\int_step_inline:mn {##1}`  
134 `{`  
135 `\clist_put_right:Ne \l__tbl_week_accumtmp_clist`  
136 `{ \clist_item:Nn \l__tbl_week_ratio_clist {####1} }`  
137 `}`  
138 `\clist_put_right:Ne \l__tbl_week_accum_clist`  
139 `{ \fp_eval:n { \clist_use:Nn \l__tbl_week_accumtmp_clist { + } } }`  
140 `}`  
141 `\fp_set:Nn \l__tbl_week_num_fp`  
142 `{`  
143 `\clist_item:Nn \l__tbl_week_accum_clist`  
144 `{ \clist_count:N \l__tbl_week_clist }`  
145 `}`  
146 `\dim_set:Nn \l__tbl_week_hunit_dim`  
147 `{ \fp_eval:n { 14/\l__tbl_week_num_fp/15 } \paperwidth }`  
148 `}`

*(End of definition for \\_\_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` 149 `\int_new:N \l__tbl_time_num_int`  
150 `\dim_new:N \l__tbl_time_vunit_dim`

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

`\__tbl_timelist:n` Define the auxiliary command of `\timelist`.  
151 `\cs_new_protected_nopar:Npn \__tbl_timelist:n #1`  
152 `{`  
153 `\clist_set:Nn \l__tbl_time_clist {#1}`  
154 `\int_set:Nn \l__tbl_time_num_int { \clist_count:N \l__tbl_time_clist }`  
155 `\dim_set:Nn \l__tbl_time_vunit_dim`  
156 `{ \fp_eval:n { 1/(2\l__tbl_time_num_int + 3.5) } \paperheight }`  
157 `}`



(End of definition for \\_ltbl\_timelist:n.)

\\_ltbl\_timelist\_shift\_dim Store the vertical shift of the sequence number of the time list.

158 \dim\_new:N \\_ltbl\_timelist\_shift\_dim

(End of definition for \\_ltbl\_timelist\_shift\_dim.)

\\_ltbl\_maketable:n Define the auxiliary command of the litetable environment.

159 \cs\_new\_protected\_nopar:Npn \\_ltbl\_maketable:n #1

160 {

161 \fill [ \\_ltbl\_bg\_color\_tl!5 ]

162 (current~page.north~west) rectangle +

163 (\paperwidth, -1.5\\_ltbl\_time\_vunit\_dim)

164 node [ midway, black, font = \huge \bfseries ] {#1};

165 \tl\_if\_empty:NF \\_ltbl\_bg\_sem\_tl

166 {

167 \node [ shift = {(-.02\\_paperwidth, -.75\\_ltbl\_time\_vunit\_dim)},

168 left, rectangle, fill = DarkBlue!10, text = DarkBlue!60,

169 inner~sep = 2ex, rounded~corners = 8pt, font = \large

170 ] at (current~page.north~east) { \\_ltbl\_bg\_sem\_tl };

171 }

172 \int\_step\_inline:nnnn { 0 } { 2 } { \\_ltbl\_time\_num\_int }

173 {

174 \filldraw [ fill = \\_ltbl\_bg\_color\_tl!5, thick,

175 draw = gray, \\_ltbl\_hline\_type\_tl ]

176 ([shift =

177 {(-.4pt, \fp\_eval:n { -2 \* ##1 - 2.5 } \\_ltbl\_time\_vunit\_dim)}]

178 current~page.north~west

179 ) rectangle + (\paperwidth + .8pt, -2\\_ltbl\_time\_vunit\_dim);

180 }

181 \bool\_if:NTF \\_ltbl\_timelist\_hidetime\_bool

182 {

183 \dim\_set:Nn \\_ltbl\_timelist\_shift\_dim

184 { -1.5\\_ltbl\_time\_vunit\_dim }

185 }

186 {

187 \dim\_set:Nn \\_ltbl\_timelist\_shift\_dim

188 { -\\_ltbl\_time\_vunit\_dim }

189 }

190 \int\_step\_inline:nn { \\_ltbl\_time\_num\_int }

191 {

192 \node [ darkgray!80, shift =

193 {(

194 \paperwidth/30,

195 -2 \* ##1 \\_ltbl\_time\_vunit\_dim +

196 \\_ltbl\_timelist\_shift\_dim

197 )}, font = \large \\_ltbl\_timelist\_numformat\_tl

198 ] at (current~page.north~west) {##1};

199 }

200 \bool\_if:NF \\_ltbl\_timelist\_hidetime\_bool

201 {

202 \int\_step\_inline:nn { \clist\_count:N \\_ltbl\_time\_clist }

203 {

204 \\_ltbl\_get\_left:eN { \clist\_item:Nn \\_ltbl\_time\_clist {##1} }

```

205         \l__tbl_tmpa_tl
206         \__tbl_get_right:eN { \clist_item:Nn \l__tbl_time_clist {##1} }
207         \l__tbl_tmpb_tl
208         \node [ gray, align = center, shift =
209             {
210                 \paperwidth/30,
211                 \fp_eval:n { -1.85 - 2 * ##1 } \l__tbl_time_vunit_dim
212             }], font = \l__tbl_timelist_timeformat_tl
213             ] at (current~page.north-west)
214             { \l__tbl_tmpa_tl\ \l__tbl_tmpb_tl };
215     }
216 }
217 \int_step_inline:nn { \clist_count:N \l__tbl_week_clist }
218 {
219     \int_compare:nNnF {##1} = { \clist_count:N \l__tbl_week_clist }
220     {
221         \node [ shift =
222             {(\fp_eval:n
223                 {
224                     14 * \clist_item:Nn \l__tbl_week_accum_clist {##1}/
225                     \l__tbl_week_num_fp/15 + 1/15
226                 } \paperwidth, -2\l__tbl_time_vunit_dim
227             )}], darkgray, font = \ttfamily
228             ] at (current~page.north-west) { \l__tbl_weeklist_sep_tl };
229     }
230     \__tbl_get_left:eN { \clist_item:Nn \l__tbl_week_clist {##1} }
231     \l__tbl_tmpa_tl
232     \node [ shift =
233         {(\fp_eval:n
234             {
235                 14(
236                     \clist_item:Nn \l__tbl_week_accum_clist {##1} -
237                     \clist_item:Nn \l__tbl_week_ratio_clist {##1}/2
238                 )/\l__tbl_week_num_fp/15 + 1/15
239             } \paperwidth, -2\l__tbl_time_vunit_dim
240         )}], font = \large \l__tbl_weeklist_format_tl
241         ] at (current~page.north-west) { \l__tbl_tmpa_tl };
242     }
243 }

```

*(End of definition for \\_\_tbl\_maketable:n.)*

`\l__tbl_course_shift_dim` Store the vertical shift of the course subject in course box.

```

244 \dim_new:N \l__tbl_course_shift_dim

```

*(End of definition for \l\_\_tbl\_course\_shift\_dim.)*

`\__tbl_course_box_aux:nn` Define the auxiliary command of `\course`.

```

245 \cs_new_protected_nopar:Npn \__tbl_course_box_aux:nn #1#2
246 {
247     \begin{scope}
248     \clip [ preaction = { draw, ultra-thick, \l__tbl_course_color_tl!60 },
249           preaction = { fill, \l__tbl_course_color_tl!10 },
250           rounded-corners = 8pt ]
251     ([shift =

```

```

252     {(
253       \fp_eval:n
254       {
255         \clist_item:Nn \l__ltbl_week_accum_clist
256         { \l__ltbl_weekday_int } -
257         \clist_item:Nn \l__ltbl_week_ratio_clist
258         { \l__ltbl_weekday_int }
259         } \l__ltbl_week_hunit_dim + \paperwidth/15 + 1.2pt,
260       \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim - 1.2pt
261     )][current~page.north~west) rectangle +
262     (
263       \clist_item:Nn \l__ltbl_week_ratio_clist
264       { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim - 2.4pt,
265       \fp_eval:n { 2(#1 - #2 - 1) } \l__ltbl_time_vunit_dim + 2.4pt
266     );
267   \fill [ \l__ltbl_course_color_tl!60 ]
268   ([shift =
269     {(
270       \fp_eval:n
271       {
272         \clist_item:Nn \l__ltbl_week_accum_clist
273         { \l__ltbl_weekday_int } -
274         \clist_item:Nn \l__ltbl_week_ratio_clist
275         { \l__ltbl_weekday_int }
276         } \l__ltbl_week_hunit_dim + \paperwidth/15,
277       \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim
278     )][current~page.north~west) rectangle +
279     (
280       \clist_item:Nn \l__ltbl_week_ratio_clist
281       { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim,
282       -\l__ltbl_time_vunit_dim/2
283     );
284   \end{scope}
285   \int_compare:nNnTF {#1} = {#2}
286   {
287     \bool_lazy_and:nnTF
288     { \tl_if_empty_p:N \l__ltbl_course_location_tl }
289     { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
290     { \tl_set:Nn \l__ltbl_course_anchor_tl { } }
291     { \tl_set:Nn \l__ltbl_course_anchor_tl { above } }
292   \node
293   [ \l__ltbl_course_anchor_tl, \l__ltbl_course_color_tl!60, shift =
294     {(
295       \fp_eval:n
296       {
297         \clist_item:Nn \l__ltbl_week_accum_clist
298         { \l__ltbl_weekday_int } -
299         \clist_item:Nn \l__ltbl_week_ratio_clist
300         { \l__ltbl_weekday_int }/2
301         } \l__ltbl_week_hunit_dim + \paperwidth/15,
302       \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
303     )}, align = center, font = \bfseries
304   ] at (current~page.north~west) { \l__ltbl_course_subject_tl };
305   \bool_lazy_or:nnTF

```

```

306     { \tl_if_empty_p:N \l__ltbl_course_location_tl }
307     { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
308     { \tl_set:Nn \l__ltbl_s@course_sep_tl { } }
309     { \tl_set:Nn \l__ltbl_s@course_sep_tl { ,~ } }
310 \node
311 [ shift =
312   {(
313     \fp_eval:n
314     {
315       \clist_item:Nn \l__ltbl_week_accum_clist
316       { \l__ltbl_weekday_int } -
317       \clist_item:Nn \l__ltbl_week_ratio_clist
318       { \l__ltbl_weekday_int }/2
319       } \l__ltbl_week_hunit_dim + \paperwidth/15,
320     \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
321   )}, below, \l__ltbl_course_color_tl!60, align = center
322 ] at (current~page.north~west)
323 {
324   \l__ltbl_course_location_tl
325   \l__ltbl_s@course_sep_tl
326   \l__ltbl_course_lecture_tl
327 };
328 }
329 {
330 \bool_lazy_and:nnTF
331 { \tl_if_empty_p:N \l__ltbl_course_location_tl }
332 { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
333 {
334   \tl_set:Nn \l__ltbl_course_anchor_tl { }
335   \dim_set:Nn \l__ltbl_course_shift_dim { 0pt }
336 }
337 {
338   \tl_set:Nn \l__ltbl_course_anchor_tl { above }
339   \dim_set:Nn \l__ltbl_course_shift_dim { \l__ltbl_time_vunit_dim/8 }
340 }
341 \node
342 [ \l__ltbl_course_color_tl!60, align = center, shift =
343   {(
344     \fp_eval:n
345     {
346       \clist_item:Nn \l__ltbl_week_accum_clist
347       { \l__ltbl_weekday_int } -
348       \clist_item:Nn \l__ltbl_week_ratio_clist
349       { \l__ltbl_weekday_int }/2
350       } \l__ltbl_week_hunit_dim + \paperwidth/15,
351     \fp_eval:n { -1.5 - #1 - #2 } \l__ltbl_time_vunit_dim +
352     \l__ltbl_course_shift_dim
353   )}, font = \large \bfseries, \l__ltbl_course_anchor_tl
354 ] at (current~page.north~west) { \l__ltbl_course_subject_tl };
355 \bool_lazy_or:nnTF
356 { \tl_if_empty_p:N \l__ltbl_course_location_tl }
357 { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
358 { \tl_set:Nn \l__ltbl_course_sep_tl { } }
359 { \tl_set:Nn \l__ltbl_course_sep_tl { \ } }

```

```

360     \node
361     [ shift =
362     {(
363     \fp_eval:n
364     {
365     \clist_item:Nn \l__tbl_week_accum_clist
366     { \l__tbl_weekday_int } -
367     \clist_item:Nn \l__tbl_week_ratio_clist
368     { \l__tbl_weekday_int }/2
369     } \l__tbl_week_hunit_dim + \paperwidth/15,
370     \fp_eval:n { -1.625 - #1 - #2 } \l__tbl_time_vunit_dim
371     )}, below, \l__tbl_course_color_tl!60, align = center
372     ] at (current~page.north~west)
373     {
374     \l__tbl_course_location_tl
375     \l__tbl_course_sep_tl
376     \l__tbl_course_lecture_tl
377     };
378     \node
379     [ shift =
380     {(
381     \clist_item:Nn \l__tbl_week_accum_clist
382     { \l__tbl_weekday_int } \l__tbl_week_hunit_dim +
383     \paperwidth/15,
384     \fp_eval:n { -2.5 - 2 * #2 } \l__tbl_time_vunit_dim
385     )}, above~left, \l__tbl_course_color_tl!60, outer~sep = .5ex
386     ] at (current~page.north~west) { \l__tbl_course_comment_tl };
387     }
388     }

```

(End of definition for `\__tbl_course_box_aux:nn`)

```

389 \file_input_stop:
390 </package>

```

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