

litetable 宏包 – 多彩的課程表*

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Released 2025-09-23 v3.8A

1 介紹

litetable 宏包提供了一個多彩的課程表設計，基於 TikZ 由 expl3 開發。支援 pdfTeX, XeTeX, ApTeX 同 LuaTeX 等多種編譯方式。點擊跳轉 [[English](#)] [[简体中文](#)] 手冊。

2 用戶接口

要加載此宏包，只需寫下

```
\usepackage{litetable}
```

litetable (*env*) 環境 litetable 可生成空白課程表，需在命令 \timelist 同 \weeklist 後執行

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

強制參數用於設定課程表標題，可選參數接受以下鍵

scale = ⟨float⟩ 可設定課程表的縮放比例（默認值: 1.0）。

color = ⟨color⟩ 可設定課程表框架的背景色（默認值: gray），鍵名可省略。

sem = ⟨string⟩ 可設定頁面右上角的學期信息。

hline = ⟨string⟩ 可設定水平線的樣式（默認值: solid）。

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

強制參數接收數組，用於設定課程表頂部的工作日列表同列寬。可選參數接受以下鍵

format = ⟨format commands⟩ 可設置工作日列表格式（默認值: \bfseries）。

sep = ⟨string⟩ 可設定工作日列表的分隔符。

```
\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>

[†]郭李軍開發了解析 ⟨left⟩ -> ⟨right⟩ 型數據結構的接口。

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

強制參數均接收數組，用於設置課程表的左側的時間列表. 可選參數接受以下鍵

numformat = *format* 可設定時間列表的序號字體（默認值: `\ttfamily \bfseries`）.

timeformat = *format* 可設定時間列表的時間字體（默認值: `\ttfamily`）.

hidetime = *true|false* 用於隱藏時間列表中的時間，只保留序號（初始值: `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]]
```

用於在當前工作日添加課程盒子，需在 `litetable` 環境中執行. 兩個強制參數分別用於設置課程的開始同結束序號. 可選參數接收下列鍵

color = *color* 用於設置課程盒子的颜色（默認值: `teal`）. 鍵名可省略.

subject = *string* 用於設置課程名稱.

location = *string* 用於設置課程地點.

lecture = *string* 用於設置授課教師.

comment = *string* 用於給課程添加腳注.

TExhackers note:

- 若 *start* = *end* (課程盒子的高度為 1)，若 **location** 和 **lecture** 會輸出在同一行，而且 **comment** 將隱藏.
- 即使誤將 *start* 同 *end* 寫反，模板也會自動糾正.
- 若 **location** 同 **lecture** 均未使用，則 **subject** 將輸出在課程盒子的豎直方向中心.
- 超出課程表範圍的課程盒子將暗顯示，并會返回警告. 輸入用例見 Appendix 3.

```
\newday \newday [integral value]
```

使其後面添加的課程盒子後移 *integal value* 個工作日. 可選參數的默認值為 1.

```
\more \more {[comment]}
```

在課程表的右下角添加備註.

3 工作範例

```
\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

interface3

The L^AT_EX Project

TeX Live 2025

5

11:40
12:25

6

13:30
14:15

7

14:20
15:05

8

15:15
16:00

expl3

The L^AT_EX 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

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

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

(End of definition for \__tbl_get_left:nN and \__tbl_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     \__tbl_weeklist:n {#2}
30 }
```

Key-value definitions for the \weeklist command.

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

(End of definition for \weeklist, \l__tbl_weeklist_format_tl, and \l__tbl_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 { O{} m O{} }
38   {
39     \keys_set:nn { litetable / timelist } { #1, #3 }
40     \__ltbl_timelist:n {#2}
41   }
```

Key-value definitions for the \timelist command.

```
42 \keys_define:nn { litetable / timelist }
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 Dimensions for the physical width and height of the timetable, controlled by \l_@@_scale_fp.

```
\l_ltbl_textheight_dim
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 } { O{} m O{} }
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 }
```

\l_ltbl_scale_fp Key-value definitions for the litetable command.

```
\l_ltbl_bg_color_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_1tbl_scale_fp and others.)

\course Add course boxes on the current workday

```

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

```

Key-value definitions for the \course command.

```

\l__ltbl_course_color_tl 98 \keys_define:nn { litetable / course }
\l__ltbl_course_subject_tl 99 {
\l__ltbl_course_lecture_tl 100   color .tl_set:N = \l__ltbl_course_color_tl,
\l__ltbl_course_location_tl 101   color .initial:n = black,
\l__ltbl_course_comment_tl 102   subject .tl_set:N = \l__ltbl_course_subject_tl,
103   lecture .tl_set:N = \l__ltbl_course_lecture_tl,
104   location .tl_set:N = \l__ltbl_course_location_tl,
105   comment .tl_set:N = \l__ltbl_course_comment_tl,
106   unknown .code:n = \tl_if_novalue:nF {#1}
107   { \tl_set_eq:NN \l__ltbl_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_1_ltbl_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 $\langle \text{integral value} \rangle$ working days.

```
115 \NewDocumentCommand \newday { O{1} } { \int_add:Nn \l__ltbl_weekday_int {#1} }
116 \int_new:N \l__ltbl_weekday_int
117 \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
\l__ltbl_week_accum_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.

```

118 \clist_new:N \l__ltbl_week_ratio_clist
119 \clist_new:N \l__ltbl_week_accum_clist
120 \fp_new:N \l__ltbl_week_num_fp
121 \dim_new:N \l__ltbl_week_hunit_dim

```

(End of definition for \l__ltbl_week_ratio_clist and others.)

__ltbl_weeklist:n Define the auxiliary command of \weeklist.

```

122 \cs_new_protected_nopar:Npn \__ltbl_weeklist:n #1
123 {
124     \clist_set:Nn \l__ltbl_week_clist {#1}
125     \exp_args:NNf \clist_map_inline:Nn \l__ltbl_week_clist
126     {
127         \__ltbl_get_right:eN {##1} \l__ltbl_tmpb_t1
128         \clist_put_right:Ne \l__ltbl_week_ratio_clist { \l__ltbl_tmpb_t1 }
129     }
130     \int_step_inline:nn { \clist_count:N \l__ltbl_week_clist }
131     {
132         \clist_clear:N \l__ltbl_week_accumtmp_clist
133         \int_step_inline:nn {##1}
134         {
135             \clist_put_right:Ne \l__ltbl_week_accumtmp_clist
136             { \clist_item:Nn \l__ltbl_week_ratio_clist {####1} }
137         }
138         \clist_put_right:Ne \l__ltbl_week_accum_clist
139         { \fp_eval:n { \clist_use:Nn \l__ltbl_week_accumtmp_clist { + } } }
140     }
141     \fp_set:Nn \l__ltbl_week_num_fp
142     {
143         \clist_item:Nn \l__ltbl_week_accum_clist
144         { \clist_count:N \l__ltbl_week_clist }
145     }
146     \dim_set:Nn \l__ltbl_week_hunit_dim
147     { \fp_eval:n { 14/\l__ltbl_week_num_fp/15 } \paperwidth }
148 }

```

(End of definition for __ltbl_weeklist:n)

\l__ltbl_time_num_int The sequence number of the time list, and the vertical gap between the start and end time.

```

149 \int_new:N \l__ltbl_time_num_int
150 \dim_new:N \l__ltbl_time_vunit_dim

```

(End of definition for \l__ltbl_time_num_int and \l__ltbl_time_vunit_dim.)

__ltbl_timelist:n Define the auxiliary command of \timelist.

```

151 \cs_new_protected_nopar:Npn \__ltbl_timelist:n #1
152 {
153     \clist_set:Nn \l__ltbl_time_clist {#1}
154     \int_set:Nn \l__ltbl_time_num_int { \clist_count:N \l__ltbl_time_clist }
155     \dim_set:Nn \l__ltbl_time_vunit_dim
156     { \fp_eval:n { 1/(2\l__ltbl_time_num_int + 3.5) } \paperheight }
157 }

```

(End of definition for __ltbl_timelist:n.)

\l_tbl_timelist_shift_dim Store the vertical shift of the sequence number of the time list.

158 \dim_new:N \l_tbl_timelist_shift_dim

(End of definition for \l_tbl_timelist_shift_dim)

__tbl_maketable:n Define the auxiliary command of the litetable environment.

```
159 \cs_new_protected_nopar:Npn \_\_tbl_maketable:n #1
160 {
161     \fill [ \l\_tbl_bg_color_tl!5 ]
162         (current-page.north-west) rectangle +
163         (\paperwidth, -1.5\l\_tbl_time_vunit_dim)
164     node [ midway, black, font = \huge \bfseries ] {#1};
165 \tl_if_empty:NF \l\_tbl_bg_sem_tl
166 {
167     \node [ shift = {(-.02\paperwidth, -.75\l\_tbl_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) { \l\_tbl_bg_sem_tl };
171 }
172 \int_step_inline:nnnn { 0 } { 2 } { \l\_tbl_time_num_int }
173 {
174     \filldraw [ fill = \l\_tbl_bg_color_tl!5, thick,
175                draw = gray, \l\_tbl_hline_type_tl ]
176     ([shift =
177         {(-.4pt, \fp_eval:n { -2 * ##1 - 2.5 } \l\_tbl_time_vunit_dim)}
178         ]current-page.north-west
179         ) rectangle + (\paperwidth + .8pt, -2\l\_tbl_time_vunit_dim);
180 }
181 \bool_if:NTF \l\_tbl_timelist_hidetime_bool
182 {
183     \dim_set:Nn \l\_tbl_timelist_shift_dim
184     { -1.5\l\_tbl_time_vunit_dim }
185 }
186 {
187     \dim_set:Nn \l\_tbl_timelist_shift_dim
188     { -\l\_tbl_time_vunit_dim }
189 }
190 \int_step_inline:nn { \l\_tbl_time_num_int }
191 {
192     \node [ darkgray!80, shift =
193             {
194                 \paperwidth/30,
195                 -2 * ##1 \l\_tbl_time_vunit_dim +
196                 \l\_tbl_timelist_shift_dim
197             }, font = \large \l\_tbl_timelist_numformat_tl
198             ] at (current-page.north-west) {##1};
199 }
200 \bool_if:NF \l\_tbl_timelist_hidetime_bool
201 {
202     \int_step_inline:nn { \clist_count:N \l\_tbl_time_clist }
203     {
204         \ltbl_get_left:eN { \clist_item:Nn \l\_tbl_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_timeclist_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 } { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
289    { \tl_set:Nn \l__ltbl_course_anchor_tl { } } { \tl_set:Nn \l__ltbl_course_anchor_tl { above } }
290    \node
291    [ \l__ltbl_course_anchor_tl, \l__ltbl_course_color_tl!60, shift =
292      {
293        \fp_eval:n
294        {
295          \clist_item:Nn \l__ltbl_week_accum_clist
296          { \l__ltbl_weekday_int } -
297          \clist_item:Nn \l__ltbl_week_ratio_clist
298          { \l__ltbl_weekday_int }/2
299          } \l__ltbl_week_hunit_dim + \paperwidth/15,
300          \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
301        ), align = center, font = \bfseries
302      ] at (current-page.north-west) { \l__ltbl_course_subject_tl };
303    \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__ltbl_week_accum_clist
366         { \l__ltbl_weekday_int } -
367         \clist_item:Nn \l__ltbl_week_ratio_clist
368         { \l__ltbl_weekday_int }/2
369         } \l__ltbl_week_hunit_dim + \paperwidth/15,
370         \fp_eval:n { -1.625 - #1 - #2 } \l__ltbl_time_vunit_dim
371       ), below, \l__ltbl_course_color_tl!60, align = center
372     ] at (current-page.north-west)
373     {
374       \l__ltbl_course_location_tl
375       \l__ltbl_course_sep_tl
376       \l__ltbl_course_lecture_tl
377     };
378 \node
379   [ shift =
380     {
381       \clist_item:Nn \l__ltbl_week_accum_clist
382       { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim +
383       \paperwidth/15,
384       \fp_eval:n { -2.5 - 2 * #2 } \l__ltbl_time_vunit_dim
385     ), above-left, \l__ltbl_course_color_tl!60, outer-sep = .5ex
386   ] at (current-page.north-west) { \l__ltbl_course_comment_tl };
387 }
388 }

(End of definition for \__ltbl_course_box_aux:nn)

389 \file_input_stop:
390 </package>

```

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意大利體的數字表示描述對應索引項的頁碼；帶下劃綫的數字表示定義對應索引項的代碼行號；羅馬字體的數字表示使用對應索引項的代碼行號。

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