

litetable 宏包 — 多彩的课程表^{*}

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1 介绍

litetable 宏包提供了一个多彩的课程表设计，基于 TikZ 由 expl3 开发. 支持 pdf \TeX , Xe \TeX , Ap \TeX 和 Lua \TeX 等多种编译方式. 点击跳转 [\[English\]](#) [\[繁体粵語\]](#) 手册.

2 用户接口

要加载此宏包，只需写下

```
\usepackage{litetable}
```

litetable (*env*) 环境 litetable 可生成空白课程表，需在命令 \timelist 和 \weeklist 后执行

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

强制参数用于设定课程表标题，可选参数接受以下键

scale = ⟨*float*⟩ 可设置课程表的缩放比例（默认值: 1.0）.

color = ⟨*color*⟩ 可设置课程表框架的背景色（默认值: gray），键名可省略.

sem = ⟨*string*⟩ 可设置页面右上角的学期信息.

hline = ⟨*string*⟩ 可设置水平线的样式（默认值: solid）.

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

强制参数接收数组，用于设置课程表顶部的工作日列表和列宽. 可选参数接受以下键

format = ⟨*format commands*⟩ 可设置工作日列表格式（默认值: \bfseries）.

sep = ⟨*string*⟩ 可设置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>

[†]郭李军开发了解析 ⟨*left*⟩ -> ⟨*right*⟩ 型数据结构的接口.

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`\timelist` `\timelist` [*<keys>*] {*<list>*} [*<keys>*]

强制参数均接收数组，用于设置课程表的左侧的时间列表. 可选参数接受以下键

numformat = *<format>* 可设置时间列表的序号字体（默认值: `\ttfamily \bfseries`）.

timeformat = *<format>* 可设置时间列表的时间字体（默认值: `\ttfamily`）.

hidetime = *<true|false>* 用于隐藏时间列表中的时间，只保留序号.（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>*]

用于在当前工作日添加课程盒子，需在 `litetable` 环境中执行. 两个强制参数分别用于设置课程的开始和结束序号. 可选参数接收下列键

color = *<color>* 用于设置课程盒子的颜色（默认值: `teal`）. 键名可省略.

subject = *<string>* 用于设置课程名称.

location = *<string>* 用于设置课程地点.

lecture = *<string>* 用于设置授课教师.

comment = *<string>* 用于给课程添加脚注.

T_EXhackers note:

- 若 *<start>* = *<end>*（课程盒子的高度为 1），则 **location** 和 **lecture** 将输出在同一行，并且 **comment** 将隐藏.
- 即使误将 *<start>* 和 *<end>* 写反，模板也会自动纠正.
- 若 **location** 和 **lecture** 均未使用，则 **subject** 将输出在课程盒子的竖直方向中心.
- 超出课程表范围的课程盒子将不显示，并会返回警告. 输入用例见 Appendix 3.

`\newday` `\newday` [*<integral value>*]

使其后面添加的课程盒子后移 *<integral value>* 个工作日. 可选参数的默认值为 1.

`\more` `\more` {*<comment>*}

在课程表的右下角添加备注.

3 工作示例

```
\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

interface3

The L^AT_EX Project

T_EX Live 2025

TikZ

PGF

Version 3.1.10

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 T_EXing

Stanford University
Donald E. Knuth

11

19:20

20:05

12

20:10

20:55

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.

```

59 \ProcessKeyOptions [ litetable / pkgoption ]
60 \dim_gset:Nn \l__ltbl_textwidth_dim
61 { \fp_eval:n { \l__ltbl_scale_fp } \paperwidth }
62 \dim_gset:Nn \l__ltbl_textheight_dim
63 { \fp_eval:n { \l__ltbl_scale_fp } \paperheight }
64 \dim_gset:Nn \l__ltbl_reswidth_dim
65 { \fp_eval:n { 1 - \l__ltbl_scale_fp } \paperwidth /2 }
66 \dim_gset:Nn \l__ltbl_resheight_dim
67 { \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__ltbl_timelist_numformat_tl 75 \keys_define:nn { litetable / timelist }
\l__ltbl_timelist_timeformat_tl 76 {
\l__ltbl_timelist_hidetime_bool 77   numformat .tl_set:N = \l__ltbl_timelist_numformat_tl,
78   numformat .initial:n = \ttfamily \bfseries,
79   timeformat .tl_set:N = \l__ltbl_timelist_timeformat_tl,
80   timeformat .initial:n = \ttfamily,
81   hidetime .bool_set:N = \l__ltbl_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     \l__ltbl_maketable:n {#2}
92 } { \endtikzpicture \group_end: \clearpage }

```

Key-value definitions for the `litetable` command.

```

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

```

(End of definition for `\l__ltbl_bg_color_tl`, `\l__ltbl_hline_type_tl`, and `\l__ltbl_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__ltbl_weekday_int } >
110         { \clist_count:N \l__ltbl_week_clist }
111       }
112       { \int_compare_p:nNn {#2} > { \clist_count:N \l__ltbl_time_clist } }
113       { \int_compare_p:nNn {#4} > { \clist_count:N \l__ltbl_time_clist } }
114     } { \__ltbl_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 (*integral value*) 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`.)

`__ltbl_maketable:n` Define the auxiliary command of the litetable environment.

```

186 \cs_new_protected_nopar:Npn \__ltbl_maketable:n #1
187 {
188   \fill [ \l__ltbl_bg_color_tl!5 ]
189     ([shift =
190       {(\l__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
191       ]current ~ page.north ~ west) rectangle +
192     (\l__ltbl_textwidth_dim, -1.5\l__ltbl_time_vunit_dim)
193     node [ midway, black, font = \huge \bfseries ] {#1};
194   \tl_if_empty:NF \l__ltbl_bg_sem_tl
195   {
196     \node [ shift = {(-.02\paperwidth, -.75\l__ltbl_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__ltbl_reswidth_dim, -\l__ltbl_resheight_dim)}
201               ]current ~ page.north ~ east) { \l__ltbl_bg_sem_tl };
202   }
203   \int_step_inline:nnnn { 0 } { 2 } { \l__ltbl_time_num_int }
204   {
205     \bool_lazy_and:nnTF
206       { \int_if_even_p:n { \l__ltbl_time_num_int } }
207       { \int_compare_p:nNn { ##1 } = { \l__ltbl_time_num_int } }
208     {
209       \filldraw [ fill = \l__ltbl_bg_color_tl!5, thick,
210                 draw = gray, \l__ltbl_hline_type_tl ]
211         ([shift = {(
212           {-.4pt + \l__ltbl_reswidth_dim},
213           {\fp_eval:n { -2 * ##1 - 2.5 } \l__ltbl_time_vunit_dim
214             - \l__ltbl_resheight_dim}})
215           ]current ~ page.north ~ west
216         ) rectangle
217         ([shift =
218           {(.4pt - \l__ltbl_reswidth_dim, .4pt + \l__ltbl_resheight_dim)}
219           ]current ~ page.south ~ east);
220     }
221     {
222       \filldraw [ fill = \l__ltbl_bg_color_tl!5, thick,
223                 draw = gray, \l__ltbl_hline_type_tl ]
224         ([shift = {(
225           {-.4pt + \l__ltbl_reswidth_dim},
226           {\fp_eval:n { -2 * ##1 - 2.5 } \l__ltbl_time_vunit_dim
227             - \l__ltbl_resheight_dim}})
228           ]current ~ page.north ~ west
229         ) rectangle +
230         (\l__ltbl_textwidth_dim + .8pt, -2\l__ltbl_time_vunit_dim);
231     }
232   }
233   \bool_if:NTF \l__ltbl_timelist_hidetime_bool
234   {
235     \dim_set:Nn \l__ltbl_timelist_shift_dim
236       { -1.5\l__ltbl_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}, {-.4pt -\l__ltbl_resheight_dim})}
307         ]current ~ page.north ~ west) rectangle
308     ([shift =
309         {({.4pt - \l__ltbl_reswidth_dim}, {.4pt + \l__ltbl_resheight_dim})}
310         ]current ~ page.south ~ east);
311 }

```

(End of definition for \l__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.)

\l__ltbl_course_box_aux:nn Define the auxiliary command of \course.

```

313 \cs_new_protected_nopar:Npn \l__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,

```

索引

意大利体的数字表示描述对应索引项的页码；带下划线的数字表示定义对应索引项的代码行号；罗马字体的数字表示使用对应索引项的代码行号。

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