# The schedule package\*

Jason Alexander $^{\dagger}$ 1997/10/28

#### Abstract

A new environment, schedule, is defined. Primarily intended for constructing charts of recurring weekly appointments, the environment may also be used to create a schedule of events and sign-up sheets (for example, scheduling mandatory office visits with students for discussing paper topics, etc.)

This package requires the packages calc and color.

## 1 Introduction

schedule provides a simple interface for creating graphical charts displaying weekly appointments. Many respects of the overall layout can be customized to suit the user's desires. Unless these default settings are changed, the created schedule will run from Monday to Friday, 8:00am to 5:00pm, and the only predefined command to insert appointments will be \class, which draws the appointment using black text on a medium-gray background.

The main feature of the schedule package is its accuracy in diagramming the length of appointments. Unlike some professionally available schedule creation programs, the representation of the length of appointments in the schedule package is accurate to the minute. In other words, if you have two appointments, one running from 2:00pm to 3:30pm on Tuesday and another running from 2:00pm to 3:31pm on Wednesday, there is a visible difference between the two representations. Unfortunately, unless you have a high-resolution printer (by which I mean more than 600 dpi) these differences will likely only be noticeable by a on-screen previewing program like ghostview.

# 2 Examples

The following schedule is typeset using the commands:

<sup>\*</sup>This file has version number v1.00, last revised 1997/10/28.

<sup>†</sup>Please send bug reports to: jalex@ea.oac.uci.edu

```
\CellHeight{.4in}
\CellWidth{1in}
\TimeRange{12:00-15:00}
\SubUnits{30}
\BeginOn{Monday}
\TextSize{\tiny}
\FiveDay
\NewAppointment{meeting}{red}{white}
\NewAppointment{workshop}{green}{blue}
\begin{schedule}[Fall Quarter, 1997]
  \class{Moral Philosophy}{HOB2 233}{M}{14:00-16:50}
 \class{Math Logic}{EIC 128}{T,Th}{11:00-12:20}
 \class{Critical Reasoning}{SSL 290}{M,W,F}{13:00-13:50}
 \meeting{Departmental Meeting}{HOB2 233}{W}{12:00-12:50}
 \label{loss_equation} $$ \operatorname{Crit. Reas. Workshop}_{HOB2 233}_{T}_{13:00-13:50} $$
 \class{Office Hours}{HOB2 210}{W,F}{14:00-14:50}
\end{schedule}
```

The result is:

## Fall Quarter, 1997

12.00 area	Monday	Tuesday	Wednesday	Thursday	Friday
12:00 am		Math Logic	Departmental Meet- ing	Math Logic	
12:30 am			HOB2 233		
1:00 pm	Critical Reasoning SSL 290	Crit. Reas. Work- shop HOB2 233	Critical Reasoning SSL 290		Critical Reasoning SSL 290
2:00 pm	Moral Philosophy HOB2 233	11000	Office Hours HOB2 210		Office Hours HOB2 210
2:30 pm 3:00 pm					

This example demonstrates all of the user-customizable options. Note several "features" of the package:

- 1. Appointments falling outside of the specified time range for the schedule are automatically truncated to fit. If the appointment falls entirely outside of the time range, it is not printed at all.
- 2. The command \class is predefined to chart appointments pertaining to class attendence. New appointment types may be defined by the user via the \NewAppointment command. The new appointments may use any predefined color for the text or background. Note that the color package allows one to define new colors.
- 3. The boxes created to represent appointments are sized to be accurate to the minute. In other words, if you have two appointments, one 52 minutes long

and the other 53 minutes long, the box representing the second appointment will be slightly longer.

4. The schedule is typeset in a centered displayed environment.

#### 3 User Commands

\CellHeight

Including CellHeight(length) before the schedule environment tells  $IATEX 2\varepsilon$  what height to make the cells in the schedule (all cells have the same height). Since a cell corresponds to an hour in the schedule, this command allows the user to specify how much vertical space a single hour ought to take up.

\CellWidth

Including  $\cline{CellWidth}\cline{width}\cline{before the schedule environment tells IATEX <math>2_{\varepsilon}$  how wide to make every cell in the schedule. The overall width of the schedule is determined by multiplying this value by the number of days (set by the  $\cline{FiveDay}$  or  $\cline{SevenDay}$  command), plus the width of the time labels on the left-hand side.

\TimeRange

This command must appear before the schedule environment, otherwise  $\LaTeX$   $\Sigma$  will not know how deep to make the grid. It is important to note that the time range is specified using a 24-hour format, with a *single* hyphen between the two times. Deviating from this format will generate an error.

\SubUnits

The \SubUnits $\langle number \rangle$  tells the package how to subdivide the hour. If one does not want any subdivisions, simply use \SubUnits{60}. The value of  $\langle number \rangle$  can be any number than evenly divides 60. It is assumed that, in specifying this value, you know what you are doing: i.e., if you tell  $\LaTeX$ 2 $\varepsilon$  to use a \CellHeight of lin, but then set \SubUnits{3}, you will get 20 subdivisions (with times) in a cell only lin high. In other words, the text on the left-hand side of the schedule will be typeset as a horrible mess. The solution is simple: if you want a large number of subdivisions, simply set \CellHeight to a greater value.

\BeginOn

Including  $\ensuremath{\verb|BeginOn||} (day)$  tells  $\ensuremath{\verb|ETEX|} X$  what day of the week to start the schedule on. The possible values are 'Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', or 'Saturday'. My apologies for non-English speaking users of  $\ensuremath{\verb|ETEX|} X$ . If there is a demand for it, I will fix this in future releases.

\TextSize

With the \TextSize\(\) command, the user tells LATEX what size font to use when typesetting the text inside the boxes. This command ought to be one of the standard LATEX font-size commands, e.g., \tiny, \scriptsize, etc. Using two large of a font will almost always result in bad line breaks inside the boxes, though, due to the narrow width of a cell.

\FiveDay

Tells LATEX to typeset a five-day schedule.

\SevenDav

Tells LATEX to typeset a seven-day schedule.

\NewAppointment

By using the \NewAppointment command, the user can customize the appearance of the schedule by changing the color of the text or the background color. The syntax is \NewAppointment\( appointment-name \) \( \lambda background-color \) \( \lambda text-color \).

## 4 The Macros

```
1 (*header)
2 \ProvidesFile{schedule.dtx}
3 \NeedsTeXFormat{LaTeX2e}
4 \ProvidesPackage{schedule}
5 \RequirePackage{calc}
6 \RequirePackage{color}
7 (/header)
8 (*package)
9 \definecolor{dark}{gray}{.75}
10 %
11 % CONSTANTS FOR THE WEEK
12 %
13 \def\@sunday{Su}
14 \def\@Sunday{Sunday}
15 \def\@monday{M}
16 \def\@Monday{Monday}
17 \def\@tuesday{T}
18 \def\CTuesday{Tuesday}
19 \def\@wednesday\{W\}
20 \def\@Wednesday{Wednesday}
21 \def\@thursday{Th}
22 \def\@Thursday{Thursday}
23 \left( \frac{9}{100} \right)
24 \def\@Friday{Friday}
25 \def\@saturday{Sa}
26 \def\@Saturday{Saturday}
27 %
28 % COUNTERS, LENGTHS, ETC.
29 %
30 \newlength{\cell@height}
31 \setlength{\cell@height}{1in}
32 \newlength{\cell@width}
33 \setlength{\cell@width}{1in}
34 \newlength{\box@depth}
35 \newcounter{sch@col@width} \setcounter{sch@col@width}{60}
36 \newlength{\box@width}
37 \setlength{\box@width}{1in*(\value{sch@col@width}/60)}
38 \newlength{\col@width}
40 \newlength{\sch@depth} \sch@depth{\sch@depth}{9in}
41 \newlength{\fill@length}
42 \newlength{\@temp@length}
43 \newlength{\@@temp@length}
44 \newlength{\line@thickness} % The thickness of the lines in the drawing
45 \setlength{\line@thickness}{.4pt}
46 \newlength{\adjusted@cell@width}
47 \newlength{\adjusted@cell@height}
```

```
49 \newcounter{picture@units@wide}
50 \newcounter{xcoords}
51 \newcounter{ycoords}
52 \newcounter{timea}
53 \newcounter{timeb}
54 \newcounter{grid@width}
55 \newcounter{grid@height}
56 \newcounter{number@of@cells} % The number of VERTICAL cells
57 \newcounter{number@of@subcells}
58 \newcounter{number@of@days} % The number of days in the grid
59 \newcounter{dp@vlines} % The number of vertical lines actually needed is
                          % \value{number@of@days} + 1 ...
61 \newcounter{dp@hlines} % The number of horizontal lines actually needed is
                          % \value{number@of@cells} + 1 ...
63 \newcounter{dp@hcell@lines} % The number of horizontal lines that are
                          % either (1) associated with an hour, or
64
                          %
                                   (2) on the top or bottom of the grid.
65
66 \newcounter{pu@cell@width}
67 \newcounter{pu@cell@height}
68 \setcounter{pu@cell@height}{60}
69 \newcounter{pu@grid@top}
70 \newcounter{pu@grid@width}
71 \newcounter{pu@subticks}
72 \newcounter{start@time}
73 \newcounter{end@time}
74 \newcounter{x@coord} % Temporary x-coordinate
75 \newcounter{y@coord} % Temporary y-coordinate
76 \newcounter{@tempc}
77 \newcounter{@tempd}
78 \newcounter{label@sep} % distance from label to gride
  \setcounter{label@sep}{5} %initialized to 5 picture units
81 \newcounter{x@Sunday}
82 \newcounter{x@Monday}
83 \newcounter{x@Tuesday}
84 \newcounter{x@Wednesday}
85 \newcounter{x@Thursday}
86 \newcounter{x@Friday}
87 \newcounter{x@Saturday}
89 \newsavebox{\temp@box}
90 \newif\ifweekends
91 \newcount\@i
92 \newcount\@j
94 \def\TimeRange#1{\compute@number@of@cells #1\end@compute}
95 \def\compute@number@of@cells#1:#2-#3:#4\end@compute{%
    \setcounter{number@of@cells}{#3-#1}%
   \setcounter{start@time}{#1}%
```

```
\setcounter{end@time}{#3}}
100 \def\TextSize#1{\def\appt@textsize{#1}}
101 \TextSize{\scriptsize}
103 \def\IncludeWeekends{\weekendstrue}
104 \def\NoWeekends{\weekendsfalse}
105
106 \def\SevenDay{\weekendstrue}
107 \def\FiveDay{\weekendsfalse}
108
109 \def\CellHeight#1{\setlength{\cell@height}{#1}%
                                         \setlength{\unitlength}{\cell@height*\ratio{1pt}{60pt}}}
110
111 \def\CellWidth#1{\setlength{\cell@width}{#1}%
                                       \setcounter{pu@cell@width}{1*\ratio{\cell@width}{\unitlength}}}
113 \def\SubUnits#1{\setcounter{pu@subticks}{#1}%
                                     \setcounter{number@of@subcells}{60/\value{pu@subticks}}}
114
115
116 \def\calculate@grid@dimensions{%
         \ifweekends \setcounter{number@of@days}{7}
117
            \else \setcounter{number@of@days}{5}%
118
119
         \setcounter{dp@hcell@lines}{\value{number@of@cells}+1}
120
          \setcounter{grid@width}{\value{number@of@days}*\value{pu@cell@width}}%
121
         \setcounter{grid@height}{\value{number@of@cells}*60}
         \setcounter{dp@vlines}{\value{number@of@days}+1}
123
         124
125
126
127 \def\draw@grid{%\calculate@grid@dimensions
         \linethickness{.2pt}%
128
          \label{line} $$ \mathbf{0,0}(0,\mathbf{0,\mathbf{0}}) = \frac{0,0}{\ell,0} . $$ \mathbf{0,0}(0,\mathbf{0,\mathbf{0}})^{\varepsilon} . $$
129
130
131
          \mbox{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\b}
132
         \thinlines}
134 \def\LineThickness#1{\setlength{\line@thickness}{#1}%
135
                                               \linethickness{\line@thickness}%
                                               \setlength{\adjusted@cell@width}{\cell@width - 1\line@thickness}
136
                                               \setlength{\adjusted@cell@height}{\cell@height - 1\line@thickness}}
137
138
139
140 \def\@Su@week{{Sunday} {Monday} {Tuesday} {Wednesday} {Thursday} {Friday} {Saturday}}
141 \def\@M@week{{Monday} {Tuesday} {Wednesday} {Thursday} {Saturday} {Sunday}}
142 \def\@T@week{{Tuesday} {Wednesday} {Thursday} {Friday} {Saturday} {Sunday} {Monday}}
143 \def\@W@week{{Wednesday} {Thursday} {Friday} {Saturday} {Sunday} {Monday} {Tuesday}}
144 \def\@Th@week{{Thursday} {Friday} {Saturday} {Sunday} {Monday} {Tuesday} {Wednesday}}
145 \def\@F@week{{Friday} {Saturday} {Sunday} {Monday} {Tuesday} {Wednesday} {Thursday}}
146 \def\@Sa@week{{Saturday} {Sunday} {Monday} {Tuesday} {Wednesday} {Thursday} {Friday}}
```

147

```
148 \def\BeginOn#1{\def\start@day{#1}}
149
150 \def\add@labels{%
        \ifx\start@day\@Sunday \expandafter\do@days\@Su@week \relax
          \else\ifx\start@day\@Monday \expandafter\do@days\@M@week \relax
152
153
             \else\ifx\start@day\@Tuesday \expandafter\do@days\@T@week \relax
               \else\ifx\start@day\@Wednesday \expandafter\do@days\@W@week \relax
154
                  \else\ifx\start@day\@Thursday \expandafter\do@days\@Th@week \relax
155
                    \else\ifx\start@day\@Friday \expandafter\do@days\@F@week \relax
156
                      \else\expandafter\do@days\@Sa@week \relax
157
               \fi\fi\fi\fi\fi\fi\
158
159
160
161 \def\@sfor #1:=#2 \upto #3 \step #4 \do #5{%
          #1=#2\relax%
162
           \@whilenum #1<#3 \do {#5 \advance#1 by #4}#5}
163
164
165 \def\add@times{%
          \setcounter{@tempc}{\value{start@time}}%
166
           \@sfor \@i :=0 \upto \value{number@of@cells} \step 1 \do%
167
               {\setcounter{x@coord}{0}%
                                                                                                                                      Set the x-coord right
168
                  \setcounter{y@coord}{\value{grid@height}-60*\@i}%
169
                                                                                                                                      adjust for the right hour cell
                  \ifnum\value{@tempc}>12%
170
                        \setcounter{@tempd}{\value{@tempc}-12}%
171
                        \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[r]{\the@tempd:00 pm\ }}%
172
173
                 \else\put(\value{x@coord},\value{y@coord}){\makebox(0,0)[r]{\the@tempc:00 am\ }}%
174
                 \fi\relax%
                 \@sfor \@j := \value{pu@subticks} \upto 59 \step \value{pu@subticks} \do%
175
                      {\ifnum\@i=\value{number@of@cells}% Test to see if this should be the last label
176
                              \relax%
177
                        \else%
178
                              \lim_{0 \to 0} g = 60\%
179
                                  \relax%
180
181
                              \else%
182
                                  \ifnum\@j<10%
183
                                       \def\the@minutes{0\the\@j}%
184
                                  \else\def\the@minutes{\the\@j}%
185
                                  \fi%
                                  \setcounter{y@coord}{\value{y@coord}-\@j}%
186
                                  \ifnum\value{@tempc}>12%
187
                                         \setcounter{@tempd}{\value{@tempc}-12}%
188
                                         \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[r]{\tiny\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@tempd:\the@t
189
                                  \else\put(\value{x@coord},\value{y@coord}) {\makebox(0,0)[r]{\tiny\the@tempc:\th
190
                                  \fi%
191
                              \fi%
192
193
194
                        \setcounter{y@coord}{\value{y@coord}+\@j}}
195
                  \addtocounter{@tempc}{1}}}%
196
```

197 \def\do@days#1#2#3#4#5#6#7{%

```
\setcounter{x@coord}{1*\ratio{\value{pu@cell@width} pt}{2 pt}}%
198
     \setcounter{y@coord}{\value{grid@height}+\value{label@sep}}%
199
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #1}}%
200
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
201
202
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #2}}%
203
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #3}}%
204
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
205
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #4}}%
206
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
207
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #5}}%
208
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
209
210
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #6}}%
211
     \setcounter{x@coord}{\value{x@coord}+\value{pu@cell@width}}%
212
213
     \put(\value{x@coord},\value{y@coord}){\makebox(0,0)[b]{\large #7}}\fi}
214
215
216 \def\set@x@coords@for@days{%
     \ifx\start@day\@Sunday%
217
218
       0=0\
       \@tfor \@temp := {Sunday} {Monday} {Tuesday} {Wednesday} {Thursday} {Friday} {Saturday}
219
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
220
          \advance\@i by 1}
221
       \def\skipday@i{F}
222
223
       \def\skipday@ii{Sa}\fi
224
     \ifx\start@day\@Monday
       \@i=0\relax%
225
       \@tfor \@temp := {Monday} {Tuesday} {Wednesday} {Thursday} {Friday} {Saturday} {Sunday}
226
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
227
          \advance\@i by 1}
228
       \def\skipday@i{Sa}
229
       \def\skipday@ii{Su}\fi
230
231
     \ifx\start@day\@Tuesday
232
       \emptyset = 0 \
233
       \@tfor \@temp := {Tuesday} {Wednesday} {Thursday} {Friday} {Saturday} {Sunday} {Monday}
234
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
235
          \advance\@i by 1}
       \def\skipday@i{Su}
236
       \def\skipday@ii{M}\fi
237
     \ifx\start@day\@Wednesday
238
239
       \@i=0\relax%
240
       \@tfor \@temp := {Wednesday} {Thursday} {Friday} {Saturday} {Sunday} {Monday} {Tuesday}
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
241
          \advance\@i by 1}
242
       \def\skipday@i{M}
243
244
       \def\skipday@ii{T}\fi
245
     \ifx\start@day\@Thursday
246
       \emptyset i=0\relax%
```

\@tfor \@temp := {Thursday} {Friday} {Saturday} {Sunday} {Monday} {Tuesday} {Wednesday}

247

```
{\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
248
          \advance\@i by 1}
249
250
      \def\skipday@i{T}
251
       \def\skipday@ii{W}\fi
    \ifx\start@day\@Friday
252
      0i=0\relax
253
      \@tfor \@temp := {Friday} {Saturday} {Sunday} {Monday} {Tuesday} {Wednesday} {Thursday}
254
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
255
         \advance\@i by 1}
256
257
       \def\skipday@i{W}
       \def\skipday@ii{Th}\fi
258
     \ifx\start@day\@Saturday
259
       0i=0\relax
260
       \@tfor \@temp := {Saturday} {Sunday} {Monday} {Tuesday} {Wednesday} {Thursday} {Friday}
261
262
         {\setcounter{x@\@temp}{\@i*\value{pu@cell@width}}%
263
          \advance\@i by 1}
       \def\skipday@i{Th}
264
       \def\skipday@ii{F}\fi
265
266
267
268 % -----
269 % Commands to insert info about an appointment
271 \newif\ifset@start@time
272 \newif\ifset@end@time
273 \newif\ifsetboxdepth
274 \newif\ifinrange
275
276 \def\NewAppointment#1#2#3{% #1 = name, #2 = background color, #3 = textcolor
    \expandafter\def\csname #1\endcsname##1##2##3##4{%
277
        \setboxdepthtrue% assume we want to calculate the box depth
278
        \inrangetrue% assume the appt is in range
279
280
        \set@start@timetrue% assume we want to calculate the start time
        \set@end@timetrue% assume we want to calculate the end time
282
        \@includetrue% assume we will include it
        \edef\appt@name{#1}% save the appt name
283
284
        \edef\appt@color{#2}% save the background color
        \edef\appt@textcolor{#3}% save the save color
285
        286
        \expandafter\def\csname #1@location\endcsname{##2}% save the loc.
287
        \expandafter\def\csname #1@days\endcsname{##3}% save the days
288
289
        \expandafter\def\csname #1@time\endcsname{##4}% save the time
        \place@appt@box##3,\stop}}
290
292 \NewAppointment{class}{dark}{black}
293
294 \def\place@appt@box#1{%
295
    \ifx#1\stop \let\@next=\@gobble%
      \else \let\@next=\set@x@coords\fi\@next#1}
296
297
```

```
298 \def\set@x@coords#1,{\def\the@day{#1}%
    \ifx\the@day\@sunday\setcounter{xcoords}{\value{x@Sunday}}%
     \else\ifx\the@day\@monday\setcounter{xcoords}{\value{x@Monday}}%
      \else\ifx\the@day\@tuesday\setcounter{xcoords}{\value{x@Tuesday}}%
301
302
       \else\ifx\the@day\@wednesday\setcounter{xcoords}{\value{x@Wednesday}}%
        \else\ifx\the@day\@thursday\setcounter{xcoords}{\value{x@Thursday}}%
303
         \else\ifx\the@day\@friday\setcounter{xcoords}{\value{x@Friday}}%
304
          \else\setcounter{xcoords}{\value{x@Saturday}}%
305
306
           \fi\fi\fi\fi\fi\fi\
            \edef\@@temp{\csname \appt@name @time\endcsname}%
307
             \expandafter\set@y@coords\@@temp\stop}
308
309
310 \def\set@y@coords#1:#2-#3:#4\stop{%
     \def\@starthour{#1}%
311
     \def\@startminutes{#2}
312
313
     \def\@endhour{#3}%
     \def\@endminutes{#4}%
314
     \ifnum#1<\value{start@time} \setcounter{ycoords}{\value{grid@height}}%
315
                                  \edef\@starthour{\value{start@time}}
316
                                  \def\@startminutes{0}
317
318
                                  \set@start@timefalse%
319
                                  \fi%
     \ifnum#3<\value{end@time} \relax%
320
       \else \edef\@endhour{\value{end@time}}
321
             \def\@endminutes{0}%
322
323
             \setcounter{ycoords@bot}{0}
             \set@end@timefalse
324
     \fi %
325
     \ifset@start@time%
326
      \setcounter{ycoords}{\value{grid@height}-(60*(#1-\value{start@time})+#2)}\fi%
327
     \ifset@end@time%
328
       \setcounter{ycoords@bot}{\value{grid@height}-(60*(#3-\value{start@time})+#4)}\fi%
329
     \setlength{\box@depth}{\@endhour\cell@height + (\cell@height*\ratio{\@endminutes pt}{60pt}
330
             · \@starthour\cell@height - (\cell@height*\ratio{\@startminutes pt}{60pt})}%
332
     \ifnum#1<\value{end@time} \relax\else \inrangefalse \fi%
333
     \draw@appt@box\place@appt@box}
334
335 \newif\if@include
336
337 \def\draw@appt@box{%
      \ifweekends \relax % if we use 7-days, this won't change
338
      \else \ifx \the@day\skipday@i \@includefalse \fi % first condition for change
339
            \ifx \the@day\skipday@ii \@includefalse \fi\fi % second condition for change
340
     \ifinrange \relax\else \@includefalse \fi %
341
     \if@include %
342
     \put(\value{xcoords},\value{ycoords})\{\colorbox{\appt@color}{\parbox[t]\{\cell@width}\{\ %
343
344
           \vspace{\box@depth}}}
345
     \thinlines
     \put(\value{xcoords},\value{ycoords}){\line(1,0){\value{pu@cell@width}}}
346
     \put(\value{xcoords},\value{ycoords@bot}){\line(1,0){\value{pu@cell@width}}}
347
```

```
\put(\value{xcoords},\value{ycoords}){%
348
           \ \parbox[t]{\cell@width-8pt}{\mbox{}\\ \appt@textsize %
           \ifdim\box@depth>\baselineskip
           \textcolor{\appt@textcolor}{\csname \appt@name @name\endcsname} \\ %
351
352
           \ifdim\box@depth>2\baselineskip
           \textcolor{\appt@textcolor}{\csname \appt@name
353
           @location\endcsname}\fi\fi }}\fi}
354
355
356 \def\convert@class@time#1:#2-#3:#4\end@time{%
     {\count1=#1\relax%
357
      \count3=#3\relax%
358
      \ifnum#1>12 \advance\count1 by -12\fi\relax%
359
      \ifnum#3>12 \advance\count3 by -12\fi\relax%
360
      \ifnum#1<12\relax%
361
       \ifnum#3<12\relax \mbox{\the\count1:#2am--\the\count3:#4am}\relax%
362
        \else \mbox{\the\count1:#2am--\the\count3:#4pm}\fi\relax%
363
         \else \mbox{\the\count1:#2pm--\the\count3:#4pm}\fi\relax}}
364
365
366 \def\compute@box@depth#1:#2-#3:#4\end@bx{%
     \setlength{\box@depth}{#3\cell@height + (\cell@height*\ratio{#4pt}{60pt}) %
367
368
            - #1\cell@height - (\cell@height*\ratio{#2pt}{60pt})}}
369
370 \newcounter{ycoords@bot}
372 \newcounter{x@tempa}
373 \newcounter{x@tempb}
374 \newcounter{y@tempa}
375 \newcounter{y@tempb}
376 \newcounter{temp@cnt@a}
377
378 \newlength{\title@height}
379 \newlength{\label@height}
380 \settoheight{\label@height}{Wednesday}
382 \newcounter{pu@label@width}
383 \newlength{\center@hack}
385 \newenvironment{schedule}[1][:]%
386 {\bigskip
387 \calculate@grid@dimensions%
388 \setcounter{pu@grid@width}{\value{pu@cell@width}*\value{number@of@days}}%
389 \settowidth{\@temp@length}{\normalsize 12:00\ pm\ }%
390 \setcounter{pu@label@width}{1*\ratio{\@temp@length}{\unitlength}}%
391 \setcounter{pu@grid@top}{\value{grid@height}+(1*\ratio{\label@height}{\unitlength}) + %
       (1*\ratio{.25in}{\unitlength})}%
393 \if#1:\relax \else%
    \settoheight{\title@height}{\large #1}%
394
395
    \addtocounter{pu@grid@top}{1*\ratio{\title@height}{\unitlength}}%
396 \fi%
397 \setlength{\center@hack}{(.5\linewidth-.5\unitlength*\value{pu@grid@width}+%
```

```
.5\unitlength*\value{pu@label@width})}%
399 \noindent\hspace*{\center@hack}%
400 \begin{picture}(\value{pu@grid@width},\value{pu@grid@top})%
401 \draw@grid
402 \add@labels
403 \if#1:\relax \else
    404
405
       (1*\ratio{.25in}{\unitlength})}
    \setcounter{xcoords}{1*\ratio{\value{pu@grid@width} pt}{2 pt}}
406
407 \put(\value{xcoords},\value{ycoords}){\makebox(0,0)[b]{\Large #1}}
408 \fi
409 \add@times
410 \set@x@coords@for@days}
411 {\multiput(0,0) (\value{pu@cell@width},0) {\value{dp@vlines}}{\line(0,1) {\value{grid@height}}}
412 \end{picture}\bigskip}
413
414 \setlength{\fboxsep}{0in}
415 %\pagestyle{empty}
416 (/package)
```

# Change History

```
v1.00
General: Initial version. . . . . . . . . 1
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