`timetable` package for LaTeX

Version 1.3

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1 Introduction

Still, in times when organizers are freely available on the net, there is still need for a way to print time tables with location and lecturer information in a nice manner. What else could be used for this task, if not LaTeX?

Unfortunately, the present version of the `timettable` package is no longer compatible to older versions, neither to version 1.1, nor to 1.2. Required generalizations of certain parts in order to create a more dynamically configurable framework forced almost complete redesign of the whole style sheet. This is why some less intuitive macros have been remodelled as well, or have been made implicit and are hence no longer needed.

2 Command reference

Like in many other LaTeX packages, macros are split into declaration part and body instructions:

2.1 Declaration

The commands presented in this section can be called at any time before the body is being processed, but do not necessarily need to be put before the `\begin{document}` tag. Instead, it might even be better to define these things within the document section, as this allows different configurations for several time tables appearing within one large document.

2.1.1 Layout

The general layout can be defined by three macros:

- **`\setslotsize`** defines the dimensions of the time slots themselves, standard is 2.8cm×1.2cm,
- **`\setslotcount`** specifies how many of these slots there are, 5×9 is predefined,
- **`\settopheight`** specifies how many slot heights the grey bar at the top should last, default is 2,

- **\settextframe** changes the border between the colored box and the text inside to be different to 0.8mm,
- **\setbottomspace** sets the distance of the small entries at the bottom of each cell to some value different to 8pt,
- **\setbottomstyle** redefines the font style of this text, and
- **\setprinttimestamps** includes timestamps at top and bottom, if set to 1, and timestamps at the top, if set to 2.

The syntax of these three macros is given by

```
\setslotsize{width}{height}
\setslotcount{columns}{rows}
\settopheight{rows}
\settextframe{width}
\setbottomspace{length}
\setbottomstyle{fontsize}
\setprinttimestamps{[0-2]}
```

2.1.2 Event types

Event types are nothing more than color combinations, which are given intuitive, i.e. associative, names. After their name, red, green and blue components for the box and text are specified as values between 0 and 1, respectively:

```
\defineevent{lecturetype}{red}{green}{blue}{text red}{text green}{text blue}
```

2.2 Body

2.2.1 Heading

The heading can be inserted with the **\printheading** command:

```
\printheading{Text for the heading}
```

2.2.2 Left caption

There are two possibilities for the left caption. The native method is given by the

```
\timemark{1st entry}
\timemark{2nd entry}
...
```

macro. Each time the command is called, a new time stamp is being added to the next free line. Alternatively, the

```
\hours{Start time}{Time slot duration}{Print destination?}
```

command fills the column with entries of type "$n : 00$" or "$n : 00 - (n + 1) : 00$", depending on whether `Print destination?` is 0 or 1, respectively. n denotes hereby the start time. Just see the results displayed in Appendix A and B, they are generated by this macro. Overflows (i.e. midnight) are handled correctly.

2.2.3 Upper caption

Similarly, the top line can also be filled in two ways.

```
\daymark{1st entry}
\daymark{2nd entry}
...
```

is the analogon to the **\timemark** macro, while

```
\englishdays{Start day}
```

or

```
\germandays{Start day}
```

fills the row with day names, starting at the day given as argument (where 1 denotes monday). Again, see the reference in Appendix A to see what it looks like.

2.2.4 Events

The `\event` macro

The perhaps most important macro is given by

```
\event {day number} {start time} {end time}
       {name} {lecturer} {location} {type}
```

Each of these commands allocates a new event block on the specified day from `start time` to `end time`, whereby the times are given in the format '0815' for 'a quarter past 8'. The block is assigned the type identifier defining background and text color (see 2.1.2). Note that if **\hours** has not been called before, start time and end time fall back to the block number, i.e. **\slotevent** is invoked with `y = start time` and `duration = end time - start time`.

The `\slotevent` macro

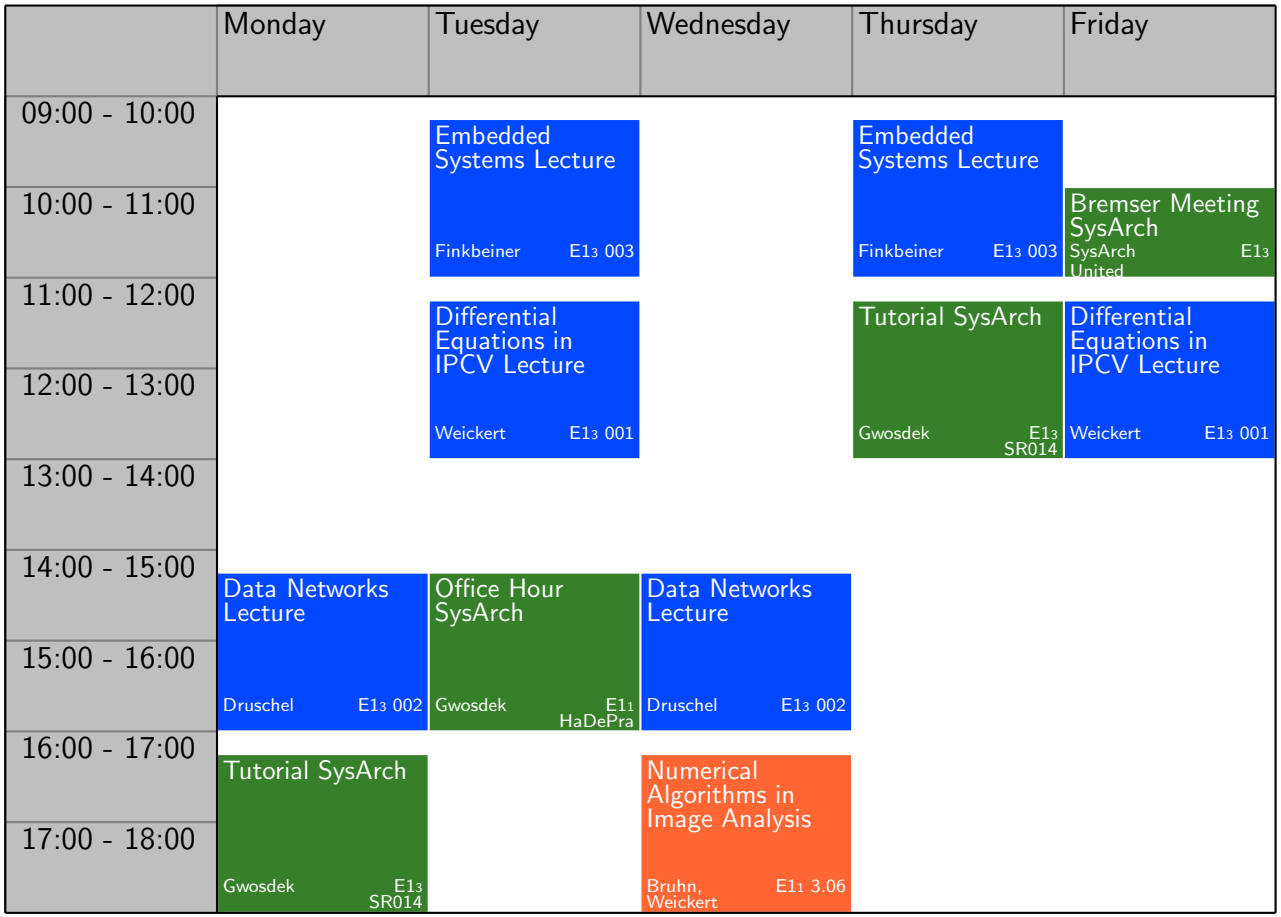
```
\slotevent {x} {y} {duration}
           {name} {lecturer} {location} {type}
```

Each of these macros specifies one event block in position, duration (i.e. length in time slots), certain full text parameters and finally the type defining background and text color (see 2.1.2).

A Sample time table (Variant 1)

A.1 Rendering

Time table 6^{th} Semester



A.2 Source code

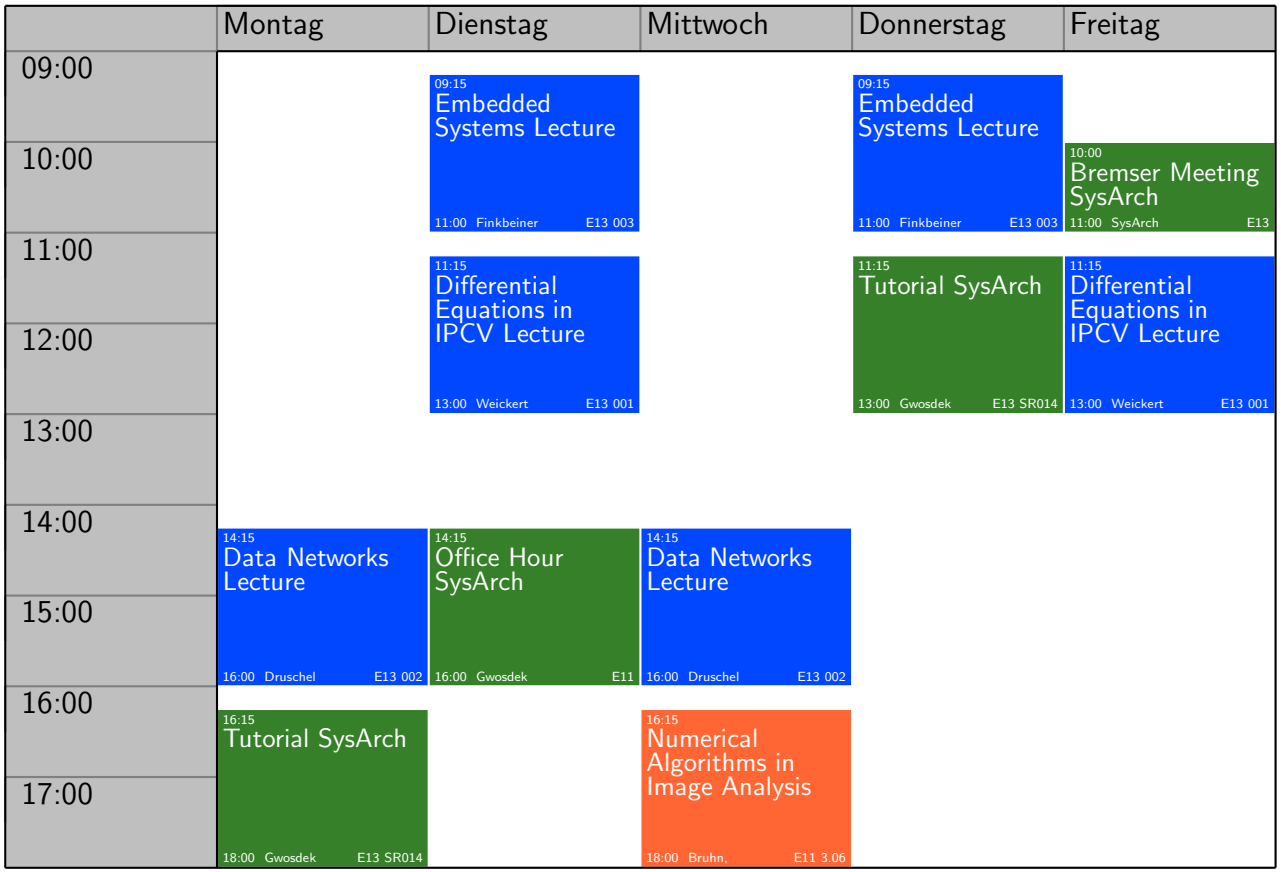
```
\documentclass[a4paper,10pt]{report}

% Definitions
\usepackage{lscape}
\usepackage[height=25cm]{geometry}
\usepackage{timetable}

\begin{document}
\thispagestyle{empty}
\begin{landscape}
\printheading{Time table $6^\mathsf{th}$ Semester}

% Define the layout of your time tables
\setslotsize{2.8cm}{0.3cm}
\setslotcount {5} {36}
\settopheight{4}
\settextframe{0.8mm}

% Define event types
\defineevent{corelecture}{0.0} {0.28}{1.0} {1.0}{1.0}{1.0}
\defineevent{seminar}    {1.0} {0.4} {0.2} {1.0}{1.0}{1.0}
\defineevent{langcourse} {1.0} {0.4} {0.2} {1.0}{1.0}{1.0}
\defineevent{tutorial}   {0.6} {0.8} {1.0} {1.0}{1.0}{1.0}
\defineevent{work}       {0.21}{0.5} {0.16}{1.0}{1.0}{1.0}

% Start the time table
\begin{timetable}
```

```
  \hours{9}{15}{1}
  \englishdays{1}
  \event 1 {1415} {1600} {Data Networks Lecture}                 {Druschel}        {E1{\tiny 3} 002}     {corelecture}
  \event 1 {1615} {1800} {Tutorial SysArch}                      {Gwosdek}         {E1{\tiny 3} SR014}   {work}
  \event 2 {0915} {1100} {Embedded Systems Lecture}              {Finkbeiner}      {E1{\tiny 3} 003}     {corelecture}
  \event 2 {1115} {1300} {Differential Equations in IPCV Lecture} {Weickert}       {E1{\tiny 3} 001}     {corelecture}
  \event 2 {1415} {1600} {Office Hour SysArch}                   {Gwosdek}         {E1{\tiny 1} HaDePra} {work}
  \event 3 {1415} {1600} {Data Networks Lecture}                 {Druschel}        {E1{\tiny 3} 002}     {corelecture}
  \event 3 {1615} {1800} {Numerical Algorithms in Image Analysis} {Bruhn, Weickert} {E1{\tiny 1} 3.06}    {seminar}
  \event 4 {0915} {1100} {Embedded Systems Lecture}              {Finkbeiner}      {E1{\tiny 3} 003}     {corelecture}
  \event 4 {1115} {1300} {Tutorial SysArch}                      {Gwosdek}         {E1{\tiny 3} SR014}   {work}
  \event 5 {1000} {1100} {Bremser Meeting SysArch}               {SysArch United}  {E1{\tiny 3}}         {work}
  \event 5 {1115} {1300} {Differential Equations in IPCV Lecture} {Weickert}       {E1{\tiny 3} 001}     {corelecture}
\end{timetable}
\end{landscape}
\end{document}
```

B Sample time table (Variant 2)

B.1 Rendering

Stundenplan 6. Semester



B.2 Source code

```
\documentclass[a4paper,10pt]{report}

% Definitions
\usepackage{lscape}
\usepackage[height=25cm]{geometry}
\usepackage{timetable}

\begin{document}
\thispagestyle{empty}
\begin{landscape}
\printheading{Stundenplan 6. Semester}

% Define the layout of your time tables
\setslotsize{2.8cm}{0.3cm}
\setslotcount {5} {36}
\settextframe{0.8mm}
\setbottomstyle{\tiny}
\setbottomspace{1pt}
\setprinttimestamps{1}

% Define event types
\defineevent{corelecture}{0.0} {0.28}{1.0} {1.0}{1.0}{1.0}
\defineevent{seminar}    {1.0} {0.4} {0.2} {1.0}{1.0}{1.0}
\defineevent{langcourse} {1.0} {0.4} {0.2} {1.0}{1.0}{1.0}
\defineevent{tutorial}   {0.6} {0.8} {1.0} {1.0}{1.0}{1.0}
\defineevent{work}       {0.21}{0.5} {0.16}{1.0}{1.0}{1.0}
```

```
% Start the time table
\begin{timetable}
  \hours{9}{15}{0}
  \germandays{1}
  \event 1 {1415} {1600} {Data Networks Lecture}                 {Druschel}        {E1{\tiny 3} 002}     {corelecture}
  \event 1 {1615} {1800} {Tutorial SysArch}                      {Gwosdek}         {E1{\tiny 3} SR014}   {work}
  \event 2 {0915} {1100} {Embedded Systems Lecture}              {Finkbeiner}      {E1{\tiny 3} 003}     {corelecture}
  \event 2 {1115} {1300} {Differential Equations in IPCV Lecture} {Weickert}       {E1{\tiny 3} 001}     {corelecture}
  \event 2 {1415} {1600} {Office Hour SysArch}                   {Gwosdek}         {E1{\tiny 1} HaDePra} {work}
  \event 3 {1415} {1600} {Data Networks Lecture}                 {Druschel}        {E1{\tiny 3} 002}     {corelecture}
  \event 3 {1615} {1800} {Numerical Algorithms in Image Analysis} {Bruhn, Weickert} {E1{\tiny 1} 3.06}    {seminar}
  \event 4 {0915} {1100} {Embedded Systems Lecture}              {Finkbeiner}      {E1{\tiny 3} 003}     {corelecture}
  \event 4 {1115} {1300} {Tutorial SysArch}                      {Gwosdek}         {E1{\tiny 3} SR014}   {work}
  \event 5 {1000} {1100} {Bremser Meeting SysArch}               {SysArch United}  {E1{\tiny 3}}         {work}
  \event 5 {1115} {1300} {Differential Equations in IPCV Lecture} {Weickert}       {E1{\tiny 3} 001}     {corelecture}
\end{timetable}
\end{landscape}
\end{document}
```