

The `moderntimeline` package

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1 Introduction

As I was reworking my CV (which uses `moderncv`), the thought came to me that instead of just putting dates in front of each entries, it would be nice to have timelines to make them more graphical and get a better grasp of the time span of each entry.

After playing a bit, I asked a question on stackexchange.com¹ and adapted the answer provided by Jake² and turned it into this package.

2 Usage

This package is to be used together with the `moderncv` class, and can be loaded with:

```
\usepackage[firstyear=1999,lastyear=2012,
             marksyr=0.4ex,marksmo=0.2ex
]{moderntimeline}
```

The `firstyear` and `lastyear` options indicate the maximum dates used to calibrate the time line. They are not mandatory and can be set later by means of the `\ltmaxdates` macro. The `marksyr` and `marksmo` options behave exactly the same as the `\tlenablemarksyr` and `\tlenablemarksmo` (and associated) macros.

2.1 Settings

Before you typeset entries, you need to adjust the settings for this package.

<code>\tlwidth</code>	You can optionally set the width of the time line by calling <code>\tlwidth</code> with a dimension.
<code>\tlrunningwidth</code>	For each entry, a running line is traced behind the time line. You can set the width of this line by means of the <code>\tlrunningwidth</code> macro.
<code>\tlrunningcolor</code>	To set the color of the running line placed behind the time line, you can use

¹<http://tex.stackexchange.com/questions/29725/putting-a-timeline-for-dates-in-moderncv>

²<http://tex.stackexchange.com/users/2552/jake>

the `\tlrunningcolor` macro.

`\tltextstart` If you wish to set the size of the start date label, you can do so by using `\tltextstart`, passing it a text size macro.

It also takes an optional first argument to set the position of the label, for example if you wish to center the label on the start of the line and set the text size to `\scriptsize`:

```
\tltextstart[base]{\scriptsize}
```

`\tltextend` If you wish to set the size of the end date label, you can do so by using `\tltextend`, passing it a text size macro.

It also takes an optional first argument to set the position of the label, for example if you wish to center the label on the start of the line and set the text size to `\scriptsize`:

```
\tltextend[base]{\scriptsize}
```

`\tltextsingle` If you wish to set the size of single date labels, you can do so by using `\tltextsingle`, passing it a text size macro.

For example if you wish to set the text size to `\scriptsize`:

```
\tltextsingle{\scriptsize}
```

`\tltext` You can set the sizes of both the start and end dates by calling the `\tltext` macro with a text size macro.

`\tlmaxdates` Before you can typeset any entry, you need to specify the maximal range of dates which will serve as a reference. This range will be mapped to the width of the left column, and dates will be positioned accordingly. To set the range, use the `\tlmaxdates` macro, passing it the first and last dates you will be using:

```
\tlmaxdates{1999}{2012}
```

If you are going to use the last date of the range as a start date or a unique date for an entry, you should probably set the max date a bit higher to prevent the date label from overflowing into the entry text.

Since version 0.4, you can set these dates by passing the `firstyear` and `lastyear` options to the package.

`\tlsince` When using a date range without an end year, you might want to add "Since" in front of the starting year. In order to do this, you can use the `\tlsince` macro:

```
\tlsince{Since~}
```

`\tlsetnotshadedfraction` If last year in `\tlcventry` and `\tllabelcventry` is 0, the bar is shaded. With this command you control the fraction of the bar that is not shaded (default = 0):

```
\tlsetnotshadedfraction{0.4} % The first 40% of the bar is not shaded
```

`\tlenablemonths` If you want to use months when drawing bars with `\tlcventry` and `\tllabelcventry`, issue this command. This feature is not enabled by default since it changes the way the bars are drawn if the month is not specified.

`\tldisablemonths` This macro (default behaviour) does not in fact ignore months, but retain the historical behaviour of this package to draw the bars at the beginning of the year, so is not advisable to use months in dates. Default.

`\tlenablemarksmo` This macro places vertical lines on the timeline bar at every month and year. You can set the height of the marks with `\tlmarkheightmo` (default = 0.2ex).

`\tlenablemakrsyr` This macro places vertical lines on the timeline bar at every year. You can set the height of the marks with `\tlmarkheightyr` (default = 0.4ex).

`\tldisablemarksy` Disables the vertical lines marking years on the timeline bar. This is the opposite of `\tlenablemarksy`.

`\tldisablemarksmo` Disables the vertical lines marking months and years on the timeline bar. This is the opposite of `\tlenablemarksmo`.

2.2 CV entries

This package provides new CV entry commands for the `moderncv` class. They are described in this section.

`\tlcventry` The `\tlcventry` macro lets you typeset a date range. In addition to the standard CV entry, one option and two mandatory arguments are added:

```
\tlcventry{1999}{2002}{WYSIWYG User}{Unnamed Company}
  {Somewhere}{}{Tried hard to typeset documents}
\tlcventry[blue]{2002}{0}{Happy TeXnician}{Any Company}
  {Anywhere}{}{Achieved nice typography and shared code with friends}
```

The option sets the color of the time line. If unset, the color defaults to the theme color of the CV.

The two arguments added in the beginning of the call are the start and end dates for the entry. If the position is still held, use 0 as the end date. This will add a gradient at the end of the time line.

You can also specify months (which are used only for adjusting the bar length: they are not shown in the labels), separated by a slash from the year:

```
\tlcventry{1999/2}{2002/6}{WYSIWYG User}{Unnamed Company}
  {Somewhere}{}{Tried hard to typeset documents}
\tlcventry[blue]{2002/8}{0}{Happy TeXnician}{Any Company}
  {Anywhere}{}{Achieved nice typography and shared code with friends}
```

Don't use a leading zero, since this make PGF think the number is in octal, so it complains when sees 08 and 09.

`\tllabelcventry` The `\tllabelcventry` macro is similar to `\tlcventry`, but it takes yet a third additional argument, which lets you set a label for the time line. When this is used, the dates are not typeset around the time line, only the label is placed where the start date would normally be.

This is useful when your dates contain month names, or if the time span is too short to properly typeset the dates above and under the time line:

```
\tllabelcventry[magenta]{2002}{2003}{July--November 2002}
  {Scribus Student}{GNU School}
  {The Internet}{}{Tried Scribus for a short while}
```

It is also possible to place a label where the end date would by making use of the separator `///`:

```
\tllabelcventry[magenta]{2002}{2003}{July///November 2002}
  {Scribus Student}{GNU School}
  {The Internet}{}{Tried Scribus for a short while}
```

You can enter months for adjusting bar length as in `\tlcventry`.

`\tldatecventry` Positions usually last long enough to draw time lines, but there are also punctual entries, such as diplomas. The `\tldatecventry` lets to typeset unique dates. It places a bullet on the date and typesets the date above it:

```
\tldatecventry[brown]{2011}{Trusted TeX.SX user}{}{tex.stackexchange.com}
  {The Internet}{}{Achived 20k reputation on TeX.SX}
```

`\tldatelabelcventry` Similarly to `\tllabelcventry`, you might want to place a label on a unique date entry, such as an exact date or a month. The `\tldatelabelcventry` provides a parameter to achive this:

```
\tldatelabelcventry[brown]{2011}{Christmas 2011}{Happy TeXer}{}{Home}
  {Townville}{}{Received Don Knuth's \emph{3:16} as a gift.}
```

3 Implementation

```
1 \ProvidesPackage{moderntimeline}
2 \RequirePackage{tikz}
3 \RequirePackage{kvoptions}
4 \SetupKeyvalOptions{
5   family=moderntimeline,
6   prefix=tl@,
7 }
```

```

8 \DeclareStringOption{firstyear}
9 \DeclareStringOption{lastyear}
10 \DeclareStringOption{marksmo}[0.2ex]
11 \DeclareStringOption{marksyr}[0.4ex]
12 \ProcessKeyvalOptions*
13 \newif\ifstartyear
14 \newif\ifissince

\tlwidth
15 \newcommand{\tlwidth}[1]{%
16   \def\tl@width{#1}
17   \pgfmathsetmacro\tl@textstartabove{\tl@width+1pt}
18 }

\tlrunningwidth
19 \newcommand{\tlrunningwidth}[1]{%
20   \def\tl@runningwidth{#1}
21 }

\tlrunningcolor
22 \newcommand{\tlrunningcolor}[1]{%
23   \def\tl@runningcolor{#1}
24 }

\tlmarkheightmo
25 \newcommand{\tlmarkheightmo}[1]{%
26   \def\tl@marksmo{#1}
27 }

\tlmarkheightyr
28 \newcommand{\tlmarkheightyr}[1]{%
29   \def\tl@marksyr{#1}
30 }

\tlsince
31 \newcommand{\tlsince}[1]{%
32   \def\tl@since{#1}
33 }

\tltextstart
34 \newcommand{\tltextstart}[2][base west]{%
35   \tikzset{
36     tl@startyear/.style={
37       font=#2,
38       name=tl@startyear,
39       above=\tl@textstartabove,
40       inner xsep=0pt,
41       anchor=#1,
42     }
43   }
44 }

```

`\tltextend`

```
45 \newcommand{\tltextend}[2][north east]{%
46   \tikzset{
47     tl@endyear/.style={
48       font=#2,
49       name=tl@endyear,
50       below,
51       inner xsep=0pt,
52       anchor=#1,
53     }
54   }
55 }
```

`\tltextsingle`

```
56 \newcommand{\tltextsingle}[1]{%
57   \tikzset{
58     tl@singleyear/.style={
59       font=#1,
60       name=tl@singleyear,
61       above=1pt,
62       inner xsep=0pt,
63     }
64   }
65 }
```

`\tltext`

```
66 \newcommand{\tltext}[1]{%
67   \tltextstart{#1}%
68   \tltextend{#1}%
69   \tltextsingle{#1}%
70 }
```

`\tlsetnotshadedfraction`

```
71 \newcommand{\tlsetnotshadedfraction}[1]{%
72   \def\tl@nsfrac{#1}
73 }
```

`\tlenablemonths`

```
74 \newcommand{\tlenablemonths}{%
75   \def\tl@nomonthvalue{6}
76 }
```

`\tldisablemonths`

```
77 \newcommand{\tldisablemonths}{%
78   \def\tl@nomonthvalue{0}
79 }
```

```

\tldisablemarksyr
80 \newcommand{\tldisablemarksyr}{%
81   \def\tl@marksyr{}}
82 }

\tlenablemarksyr
83 \newcommand{\tlenablemarksyr}{%
84   \def\tl@marksyr{0.4ex}}
85 }

\tldisablemarksmo
86 \newcommand{\tldisablemarksmo}{%
87   \def\tl@marksmo{}}
88 }

\tlenablemarksmo
89 \newcommand{\tlenablemarksmo}{%
90   \def\tl@marksmo{0.2ex}}
91 }

    Defaults
92 \tltext{\scriptsize}
93 \tlwidth{0.8ex}
94 \tlrunningwidth{0.05ex}
95 \tlrunningcolor{gray}
96 \tlsince{}
97 \tlsetnotshadedfraction{0}
98 \tldisablemonths

\tlmaxdates
99 \newcommand{\tlmaxdates}[2]{%
100   \def\tl@firstyear{#1}
101   \def\tl@lastyear{#2}
102   \pgfmathsetmacro\tl@yearrange{\tl@lastyear-\tl@firstyear}
103 }

\tl@yearfraction
104 \newcommand{\tl@yearfraction}[1]{% Month 1 - 12 -> 0 - 11
105   \gdef\tl@tmpyear{-1}% Resetting
106   \gdef\tl@tmpmonth{-1}%
107   \begingroup%
108   \edef\@tempa{#1/}%
109   \expandafter\endgroup\expandafter\tl@yearfraction@auxi\@tempa\@nnil%
110   \ifstartyear
111     \pgfmathsetmacro\tl@startyear{\tl@tmpyear+(\tl@tmpmonth-1)/12}%
112   \else
113     \ifnum\tl@tmpyear=0
114       \pgfmathsetmacro\tl@endyear{\tl@lastyear}%
115       \issincetrue%

```

```

116   \else
117     \pgfmathsetmacro\tl@endyear{\tl@tmpyear+\tl@tmpmonth/12}%
118     \issincefalse%
119   \fi
120 \fi
121 }

```

`\tl@yearfraction@auxi`

```

122 \newcommand{\tl@yearfraction@auxi}[2]{
123 \def\tl@yearfraction@auxi#1/#2\@nnil{%
124 \ifnum\tl@tmpyear<0 % First call
125   \pgfmathsetmacro\tl@tmpyear{+#1}%
126   \ifx\@nnil#2\@nnil
127     \pgfmathsetmacro\tl@tmpmonth{+\tl@nomonthvalue}%
128   \else
129     \expandafter\tl@yearfraction@auxi#2\@nnil%
130   \fi
131 \else
132   \pgfmathsetmacro\tl@tmpmonth{#1}%
133 \fi
134 }

```

`\tl@tlcvbar`

```

135 \newcommand{\tl@tlcvbar}{
136   \pgfmathsetmacro\tl@yerrange{\tl@lastyear-\tl@firstyear}
137   \pgfmathsetmacro\tl@totalmonths{12*\tl@yerrange}%
138   \pgfmathsetmacro\tl@tickdistmo{\hintscolumnwidth/\tl@totalmonths}%
139   \pgfmathsetmacro\tl@tickdistyr{\hintscolumnwidth/\tl@yerrange}%
140   \useasboundingbox (0,-1.5ex) rectangle (\hintscolumnwidth,1ex);
141   \fill [\tl@runningcolor] (0,0)
142   rectangle (\hintscolumnwidth,\tl@runningwidth);
143   \ifx\tl@marksyr\empty\relax\else
144     \foreach \x in {0, ..., \tl@yerrange}
145       \draw [\tl@runningcolor](\x*\tl@tickdistyr pt,0ex) -- (\x*\tl@tickdistyr pt,\tl@marksyr pt);
146   \fi
147   \ifx\tl@marksmo\empty\relax\else
148     \foreach \x in {0, ..., \tl@totalmonths}
149       \draw [\tl@runningcolor](\x*\tl@tickdistmo pt,0ex) -- (\x*\tl@tickdistmo pt,\tl@marksmo pt);
150   \fi
151 }

```

`\tl@splitlabels`

```

152 \newcommand{\tl@splitlabels}[1]{
153   \gdef\tl@startlabel{}% Resetting
154   \begingroup%
155   \edef\@tempa{#1///}%
156   \expandafter\endgroup\expandafter\tl@splitlabels@auxi\@tempa\@nnil%
157   \ifx\tl@startlabel\empty\relax%
158     \gdef\tl@startlabel{#1}

```



```

159 \fi
160 \ifissince%
161 \xdef\tl@startlabel{\tl@since \tl@startlabel}
162 \fi
163 }

```

\tl@splitlabels@auxi

```

164 \newcommand{\tl@splitlabels@auxi}[2]{
165 \def\tl@splitlabels@auxi#1///#2\@nnil{%
166 \ifx\tl@startlabel\empty\relax% First call
167 \gdef\tl@startlabel{#1}
168 \ifx\@nnil#2\@nnil
169 \gdef\tl@startlabel{}
170 \else
171 \expandafter\tl@splitlabels@auxi#2\@nnil%
172 \fi
173 \else
174 \gdef\tl@endlabel{#1}
175 \fi
176 }

```

\tl@formatstartyear

```

177 \newcommand{\tl@formatstartyear}[1]{
178 \startyeartrue
179 \tl@yearfraction{#1}
180 \pgfmathsetmacro\tl@startfraction{(\tl@startyear-\tl@firstyear)/(\tl@lastyear-\tl@firstyear)}
181 \ifissince
182 \xdef\tl@startlabel{\tl@since \tl@tmpyear}
183 \else
184 \xdef\tl@startlabel{\tl@tmpyear}
185 \fi
186 }

```

\tl@formatendyear

```

187 \newcommand{\tl@formatendyear}[1]{
188 \startyearfalse%
189 \tl@yearfraction{#1}
190 \pgfmathsetmacro\tl@endfraction{(\tl@endyear-\tl@firstyear)/(\tl@lastyear-\tl@firstyear)}%
191 \ifissince%
192 \xdef\tl@endlabel{}
193 \else
194 \xdef\tl@endlabel{\tl@tmpyear}
195 \fi
196 }

```

\tldatelabelcventry

```

197 \newcommand{\tldatelabelcventry}[8][color1]{%
198 \issincefalse
199 \tl@formatstartyear{#2}

```

```

200 \cventry{\tikz[baseline=0pt]{
201   \tl@tlcvbar
202   \fill [#1] (0,0)
203     ++(\tl@startfraction*\hintscolumnwidth,0pt)
204     node [tl@startyear] {#3}
205     node {$\bullet$};
206 }
207 }
208 {#4}{#5}{#6}{#7}{#8}
209 }

\tldatecventry
210 \newcommand{\tldatecventry}[7][color1]{%
211 \issincefalse
212 \tl@formatstartyear{#2}
213 \cventry{\tikz[baseline=0pt]{
214   \tl@tlcvbar
215   \fill [#1] (0,0)
216     ++(\tl@startfraction*\hintscolumnwidth,0pt)
217     node [tl@singleyear] {#2}
218     node {$\bullet$};
219 }%
220 }%
221 {#3}{#4}{#5}{#6}{#7}%
222 }

\tlcventry
223 \newcommand{\tlcventry}[8][color1]{%
224 \tl@formatendyear{#3}
225 \tl@formatstartyear{#2}
226 \cventry{\tikz[baseline=0pt]{
227   \tl@tlcvbar
228   \fill [#1] (0,0)
229     ++(\tl@startfraction*\hintscolumnwidth,0pt)
230     node [tl@startyear] {\tl@startlabel}
231     rectangle (\tl@endfraction*\hintscolumnwidth,\tl@width-1pt)
232     node [tl@endyear] {\tl@endlabel}
233     (\hintscolumnwidth,0pt) ;
234   \ifissince
235     \newdimen\fullcolorwidth
236     \pgfmathsetlength\fullcolorwidth{\tl@startfraction*(1+(1-\tl@startfraction)*\tl@nsfrac)*
237     \shade [left color=#1,right color=#1]
238 (\tl@startfraction*\hintscolumnwidth,0)
239     rectangle (\fullcolorwidth,\tl@width);
240     \shade [left color=#1] (\fullcolorwidth,0)
241     rectangle (\tl@endfraction*\hintscolumnwidth + 1,\tl@width);
242   \else
243     \fill [#1] (\tl@startfraction*\hintscolumnwidth,0)
244     rectangle (\tl@endfraction*\hintscolumnwidth,\tl@width);

```

```

245     \fi
246   }%
247 }%
248 {#4}{#5}{#6}{#7}{#8}%
249 }

\tllabelcventry
250 \newcommand{\tllabelcventry}[9][color1]{%
251 \tl@formatendyear{#3}
252 \tl@formatstartyear{#2}
253 \tl@splitlabels{#4}
254 \cventry{\tikz[baseline=0pt]{
255     \tl@tlcvbar
256     \fill [#1] (0,0)
257         ++(\tl@startfraction*\hintscolumnwidth,0pt)
258         node [tl@startyear] {\tl@startlabel}
259         rectangle (\tl@endfraction*\hintscolumnwidth,\tl@width-1pt)
260         node [tl@endyear] {\tl@endlabel}
261         (\hintscolumnwidth,0pt) ;
262     \ifissince
263         \newdimen\fullcolorwidth
264         \pgfmathsetlength\fullcolorwidth{\tl@startfraction*(1+(1-\tl@startfraction)*\tl@nsfrac)*
265         \shade [left color=#1,right color=#1]
266 (\tl@startfraction*\hintscolumnwidth,0)
267     rectangle (\fullcolorwidth,\tl@width);
268     \shade [left color=#1] (\fullcolorwidth,0)
269     rectangle (\tl@endfraction*\hintscolumnwidth,\tl@width);
270     \else
271     \fill [#1] (\tl@startfraction*\hintscolumnwidth,0)
272     rectangle (\tl@endfraction*\hintscolumnwidth,\tl@width);
273     \fi
274   }
275 }
276 {#5}{#6}{#7}{#8}{#9}%
277 }

```

Change History

0.1	General: Initial release 1	0.2	General: Add tlsince and options for tltext* 1
0.10	General: Add support to specify label for end date, thanks to ypid and Astrinus 1	0.3	General: Bugfix: initialize tlsince . . 1
0.11	General: Add support for timeline bar marks, thanks to jordieh . . 1	0.4	General: Add firstyear and lastyear options 1

0.5	General: Fix positions in <code>tlcventry</code> and <code>tldatecventry</code> , add <code>tltextsingle</code> , thanks to Stéphane Dupille 1	allow fractional years in <code>tllabelcventry</code> 1
0.6	General: Fix compatibility with <code>moderncv 0.15.1</code> 1	General: Add the <code>tlsetnotshadedfraction</code> command, thanks to Stefano Gronchi 1
0.7	General: Various fixes by Jake to	General: Add month support, thanks to Astrinus 1

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