

# The `tplists` package\*

Hans Fredrik Nordhaug  
hans@nordhaug.priv.no

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## 1 Introduction

The package provides easy dynamic lists. The following environments/lists are available

1. `stepenum`, `stepitem`, `stepdesc`, `stepeqlist`, `stepcompactenum` `stepcompactitem` and `stepcompacteqlist`.
2. `flipenum`, `flipitem`, `flipdesc`, `flipeqlist`, `flipcompactenum`, `flipcompactitem`, and `flipcompacteqlist`
3. `dimenum`, `dimitem`, `dimdesc`, `dimeqlist`, `dimcompactenum`, `dimcompactitem`, and `dimcompacteqlist`

where `step` is short for stepped, `flip` for flipped and `dim` for dimmed. The packages `paralist` and `eqlist` must be loaded before this package to use the `*eqlist` and `*compact*` lists. `enum`, `item` and `desc` is of course short for `enumerate`, `itemize` and `description` respectively.

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\*This document corresponds to `tplists` v0.2, dated 2005/04/07.

## 2 User interface

The package is loaded in the normal fashion, eg: `\usepackage{tplists}` The package works better (the lists look better) if TeXPower uses colors.

All lists (except `*eqlist`) takes an optional parameter adding to the indent of the list. Note that `dim*` and `flip*` lists do not nest, and that `step*` lists inside `dim*/flip*` will behave as a `dim*/flip*` list respectively. (The normal `itemize`, `enumerate` and `description` lists are modified so they accept the optional parameter and work nested with the new lists.)

Example:

```
\documentclass[a4paper]{article}
\usepackage[darkbackground,display]{texpower}
\usepackage{tplists}
\begin{document}
\begin{flipitem}[2cm]
  \item Before
  \begin{enumerate}[1cm]
    \item An item
    \item Another item
  \end{enumerate}
  \item After
\end{flipitem}
\end{document}
```

## 3 Description of package options

The following options exist:

`pausestep` makes `step*` lists use `\pause`

`noflipendstep` avoids the extra step at the end of a flipped list.

All options can be set anywhere in the document using a setup command, for example `\tplsetup{pausestep,noflipendstep=false}`. If the keys in the setup command have no value true is assumed.

## 4 Issues

The `step*` lists use `\vstep` (as default) which give weird results with structured backgrounds. Using the `pausestep` option fixes this, but then you can't nest `step*` lists inside `dim*` or `flip*` lists. There are also some unresolved problems when using french babel.

## 5 Implementation

### 5.1 Loading of packages

```
1 \RequirePackage{texpower}
```

Compact enum/item.

```
2 \newboolean{tpl@paralist}
3 \@ifpackageloaded{paralist}{\setboolean{tpl@paralist}{true}}{}
```

Lists with equal indentation.

```
4 \newboolean{tpl@eqlist}
5 \@ifpackageloaded{eqlist}{\setboolean{tpl@eqlist}{true}}{}
```

### 5.2 Defining options

Use `\pause` for steplists (too avoid problems with structured backgrounds).

```
6 \newboolean{tpl@pausestep}
7 \DeclareOption{pausestep}{\setboolean{tpl@pausestep}{true}}
```

Don't add an extra step at the end of a flipped list.

```
8 \newboolean{tpl@noflipendstep}
9 \DeclareOption{noflipendstep}{\setboolean{tpl@noflipendstep}{true}}
10
11 \ProcessOptions
```

Defining setup command to enable change of options anywhere in the document.

```
12 \define@key{tpl}{pausestep}[true]{%
13   \setboolean{tpl@pausestep}{#1}
14 }
15 \define@key{tpl}{noflipendstep}[true]{%
16   \setboolean{tpl@noflipendstep}{#1}
17 }
18 \newcommand*{\tplsetup}{\setkeys{tpl}}
```

### 5.3 Flipped/dimmed/stepped lists/environments

`\iftpl@instepenv` indicates if we are in some kind of stepped list environment. `\iftpl@indimenv` / `\iftpl@inflipenv` indicates that we are using one of the step-wise environments from `texpower` (that doesn't nest). `\iftpl@inpausestepenv` indicates that we are in a stepped list that uses `\pause`.

using `tpl@` as prefix for internals.

```
19 \newif\iftpl@instepenv \tpl@instepenvfalse
20 \newif\iftpl@inpausestepenv \tpl@inpausestepenvfalse
21 \newif\iftpl@indimenv \tpl@indimenvfalse
22 \newif\iftpl@inflipenv \tpl@inflipenvfalse
23 \let\oldenumerate=\enumerate
24 \let\olditemize=\itemize
25 \let\olddescription=\description
26 \let\endoldenumerate=\endenumerate
27 \let\endolditemize=\enditemize
28 \let\endolddescription=\enddescription
```

```

29 \ifthenelse{\boolean{tpl@eqlist}}{%
30 \let\oldeqlist=\eqlist
31 \let\endoldeqlist=\endeqlist
32 }{}
33 \ifthenelse{\boolean{tpl@paralist}}{%
34 \let\oldcompactenum=\compactenum
35 \let\oldcompactitem=\compactitem
36 \let\endoldcompactenum=\endcompactenum
37 \let\endoldcompactitem=\endcompactitem
38 }{}

```

Defining `\tpl@collect@body` - command used to scan the list environments. Definition borrowed from 'amsmath.sty' - slightly modified to allow for 'long' arguments

```

39 \let\tpl@nx\noexpand
40 \let\tpl@xp\expandafter
41 \newtoks\tpl@emptytoks
42 \newtoks\tpl@envbody
43 \long\def\tpl@addto@envbody#1{\global\tpl@envbody\tpl@xp{the\tpl@envbody#1}}
44 \def\tpl@collect@body#1{%
45   \tpl@envbody{\tpl@xp#1\tpl@xp{the\tpl@envbody}}%
46   \edef\tpl@process@envbody{\the\tpl@envbody\tpl@nx\end{\@currenenv}}%
47   \tpl@envbody\tpl@emptytoks \def\begin@stack{b}%
48   \begingroup
49   \tpl@xp\let\csname\@currenenv\endcsname\tpl@collect@@body
50   \edef\tpl@process@envbody{\tpl@xp\tpl@nx\csname\@currenenv\endcsname}%
51   \tpl@process@envbody
52 }
53 \long\def\tpl@push@begins#1\begin#2{%
54   \ifx\end#2\else b\tpl@xp\tpl@push@begins\fi
55 }
56 \long\def\tpl@collect@@body#1\end#2{%
57   \edef\begin@stack{\tpl@push@begins#1\begin\end \tpl@xp@gobble\begin@stack}%
58   \ifx\@empty\begin@stack
59     \endgroup
60     \@checkend{#2}%
61     \tpl@addto@envbody{#1}%
62   \else
63     \tpl@addto@envbody{#1\end{#2}}%
64   \fi
65   \tpl@process@envbody
66 }

```

Defining command `\tpl@addmargin` used to add a length to the leftmargin of the current level in a list.

```

67 \def\tpl@addmargin#1{%
68   \advance\@listdepth 1
69   \addtolength{\csname leftmargin\romannumeral\@listdepth\endcsname}{#1}
70   \advance\@listdepth -1
71 }

```

```

72
73 \ifthenelse{\boolean{display}}{%
74 %
75 % Defining a flipped step command if we are in display mode.
76 % Note that |\tpl@flipstep| takes no argument.
77 %   \begin{macrocode}
78 \ifthenelse{\boolean{TPcolor}}% Can we use colors?
79 {% Yes. In this case highlighting is implemented by switching color.
80   \def\tpl@flipstep{%
81     \step{\ifthenelse{\boolean{firstactivation}}%
82       {\color{textcolor}}%
83       {\color{inactivecolor}}%
84     }%
85   }%
86 }
87 {% No. In this case highlighting is implemented by putting the item in boldface.
88   \def\tpl@flipstep{%
89     \step{\ifthenelse{\boolean{firstactivation}}{\bfseries}{\mdseries}}
90   }%
91 }

   Defining a dimmed step command if we are in display mode. Note that
\tpl@dimstep takes no argument.
92 \ifthenelse{\boolean{TPcolor}}% Can we use colors?
93 {% Yes. In this case highlighting is implemented by using \dstep
94   \def\tpl@dimstep{\dstep}%
95 }
96 {% No. In this case highlighting is implemented by putting the item in boldface.
97   \def\tpl@dimstep{%
98     \step{\bfseries}%
99     \ifthenelse{\boolean{active}}{\}{\mdseries}%
100   }%
101 }

   Defining a (normal) step command if we are in display mode. Note that
\tpl@step takes no argument.
102 \ifthenelse{\boolean{TPcolor}}% Can we use colors?
103 {% Yes. In this case stepping is implemented by using \vstep
104   \def\tpl@step{\vstep}%
105 }
106 {% No. In this case stepping is implemented using \pause
107   \def\tpl@step{\pause}%
108 }

   TeXPower not in display mode - no need for a dimmed/flipped/normal step com-
mand.
109 }{% \boolean{display} is false
110 \def\tpl@flipstep{\relax}%
111 \def\tpl@dimstep{\relax}%
112 \def\tpl@step{\relax}%
113 }

```

Defining flipped stepped - itemize / description / enumerate / eqlist compact  
 itemize / compact enumerate / compact eqlist - environments.

```

114 \newenvironment{flipitem}[1][0cm]{%
115   \tpl@addmargin{#1}
116   \tpl@collect@body@flipitem}%
117   {\global\@ignoretrue}
118 \newenvironment{flipdesc}[1][0cm]{%
119   \tpl@addmargin{#1}
120   \tpl@collect@body@flipdesc}%
121   {\global\@ignoretrue}
122 \newenvironment{flipenum}[1][0cm]{%
123   \tpl@addmargin{#1}
124   \tpl@collect@body@flipenum}%
125   {\global\@ignoretrue}
126 \ifthenelse{\boolean{tpl@eqlist}}{%
127 \newenvironment{flipeqlist}[1][0cm]{%
128   \tpl@collect@body@flipeqlist}%
129   {\global\@ignoretrue}
130 \newenvironment{flipcompacteqlist}[1][0cm]{%
131   \tpl@collect@body@flipcompacteqlist}%
132   {\global\@ignoretrue}
133 }{}
134 \ifthenelse{\boolean{tpl@paralist}}{%
135 \newenvironment{flipcompactitem}[1][0cm]{%
136   \tpl@addmargin{#1}
137   \tpl@collect@body@flipcompactitem}%
138   {\global\@ignoretrue}
139 \newenvironment{flipcompactenum}[1][0cm]{%
140   \tpl@addmargin{#1}
141   \tpl@collect@body@flipcompactenum}%
142   {\global\@ignoretrue}
143 }{}
144
145 \newcommand\@fliplist[2]{%
146   \iftpl@indimenv
147     \PackageError{tplists}{%
148       dim* and flip* environments do NOT nest}{%
149       Do not continue! Type 'q' to stop and fix the nested list.
150     }
151   \else\iftpl@instepenv
152     \begin{#1}
153     \let\hidestepcontents=\displaystepcontents
154     \renewcommand{\item}{\tpl@flipstep\tpl@origitem}%
155     #2
156     \end{#1}%
157   \else
158     \iftpl@inpausestepenv\let\liststepwise=\stepwise\fi
159     \liststepwise[\let\hidestepcontents=\displaystepcontents]{%
160       \begin{#1}

```

```

161     \iftpl@inpausestepenv\else
162     \iftpl@instepenv\else\let\tpl@origitem=\item\fi
163     \fi
164     \tpl@instepenvtrue
165     \tpl@inflipenvtrue
166     \renewcommand{\item}{\tpl@flipstep\tpl@origitem}%
167     #2
168     \ifthenelse{\boolean{tpl@noflipendstep}}{\step{}}{%
169     \end{#1}}
170 \fi\fi
171 }
172
173 \newcommand\@flipitem[1]{%
174 \@fliplist{olditemize}{#1}}
175 \newcommand\@flipdesc[1]{%
176 \@fliplist{olddescription}{#1}}
177 \newcommand\@flipenum[1]{%
178 \@fliplist{oldenumerate}{#1}}
179 \ifthenelse{\boolean{tpl@eqlist}}{%
180 \newcommand\@flipeqlist[1]{%
181 \@fliplist{oldeqlist}{#1}}
182 \newcommand\@flipcompacteqlist[1]{%
183 \@fliplist{compacteqlist}{#1}}
184 }{}
185 \ifthenelse{\boolean{tpl@paralist}}{%
186 \newcommand\@flipcompactitem[1]{%
187 \@fliplist{oldcompactitem}{#1}}
188 \newcommand\@flipcompactenum[1]{%
189 \@fliplist{oldcompactenum}{#1}}
190 }{}

```

Defining dimmed stepped - itemize / description / enumerate / eqlist / compact itemize / compact enumerate / compact eqlist - environments.

```

191 \newenvironment{ditem}[1][0cm]{%
192 \tpl@addmargin{#1}
193 \tpl@collect@body@ditem}%
194 {\global\@ignoretrue}
195 \newenvironment{dimdesc}[1][0cm]{%
196 \tpl@addmargin{#1}
197 \tpl@collect@body@dimdesc}%
198 {\global\@ignoretrue}
199 \newenvironment{dimenum}[1][0cm]{%
200 \tpl@addmargin{#1}
201 \tpl@collect@body@dimenum}%
202 {\global\@ignoretrue}
203 \ifthenelse{\boolean{tpl@eqlist}}{%
204 \newenvironment{dimeqlist}[1][0cm]{%
205 \tpl@collect@body@dimeqlist}%
206 {\global\@ignoretrue}
207 \newenvironment{dimcompacteqlist}[1][0cm]{%

```

```

208 \tpl@collect@body@dimcompacteqlist}%
209 {\global\@ignoretrue}
210 }{}
211 \ifthenelse{\boolean{tpl@paralist}}{%
212 \newenvironment{dimcompactitem}[1][0cm]{%
213 \tpl@addmargin{#1}
214 \tpl@collect@body@dimcompactitem}%
215 {\global\@ignoretrue}
216 \newenvironment{dimcompactenum}[1][0cm]{%
217 \tpl@addmargin{#1}
218 \tpl@collect@body@dimcompactenum}%
219 {\global\@ignoretrue}
220 }{}
221
222 \newcommand\@dimlist[2]{%
223 \iftpl@inflipenv
224 \PackageError{tpllists}{%
225 dim* and flip* environments do NOT nest}{%
226 Do not continue! Type <q> to stop and fix the nested list.
227 }
228 \else\iftpl@instepenv
229 \begin{#1}
230 \renewcommand{\item}{\tpl@dimstep\tpl@origitem}%
231 #2
232 \end{#1}%
233 \else
234 \iftpl@inpausestepenv\let\liststepwise=\stepwise\fi
235 \liststepwise{%
236 \begin{#1}
237 \iftpl@inpausestepenv\else
238 \iftpl@instepenv\else\let\tpl@origitem=\item\fi
239 \fi
240 \tpl@instepenvtrue
241 \tpl@indimenvtrue
242 \renewcommand{\item}{\tpl@dimstep\tpl@origitem}%
243 #2
244 \end{#1}}
245 \fi\fi
246 }
247
248 \newcommand\@ditem[1]{%
249 \@dimlist{olditemize}{#1}}
250 \newcommand\@dimdesc[1]{%
251 \@dimlist{olddescription}{#1}}
252 \newcommand\@dimenum[1]{%
253 \@dimlist{oldenumerate}{#1}}
254 \ifthenelse{\boolean{tpl@eqlist}}{%
255 \newcommand\@dimeqlist[1]{%
256 \@dimlist{oldeqlist}{#1}}
257 \newcommand\@dimcompacteqlist[1]{%

```



```

258 \@dimlist{compacteqlist}{#1}
259 }{}
260 \ifthenelse{\boolean{tpl@paralist}}{%
261 \newcommand\@dimcompactitem[1]{%
262 \@dimlist{oldcompactitem}{#1}}
263 \newcommand\@dimcompactenum[1]{%
264 \@dimlist{oldcompactenum}{#1}}
265 }{}

    Defining stepped - itemize / description / enumerate / eqlist / compact itemize
    / compact enumerate / compact eqlist - environments.
266 \newenvironment{stepitem}[1][0cm]{%
267 \tpl@addmargin{#1}
268 \tpl@collect@body@stepitem}%
269 {\global\@ignoretrue}
270 \newenvironment{stepdesc}[1][0cm]{%
271 \tpl@addmargin{#1}
272 \tpl@collect@body@stepdesc}%
273 {\global\@ignoretrue}
274 \newenvironment{stepenum}[1][0cm]{%
275 \tpl@addmargin{#1}
276 \tpl@collect@body@stepenum}%
277 {\global\@ignoretrue}
278 \ifthenelse{\boolean{tpl@eqlist}}{%
279 \newenvironment{stepeqlist}[1][0cm]{%
280 \tpl@collect@body@stepeqlist}%
281 {\global\@ignoretrue}
282 \newenvironment{stepcompacteqlist}[1][0cm]{%
283 \tpl@collect@body@stepcompacteqlist}%
284 {\global\@ignoretrue}
285 }{}
286 \ifthenelse{\boolean{tpl@paralist}}{%
287 \newenvironment{stepcompactitem}[1][0cm]{%
288 \tpl@addmargin{#1}
289 \tpl@collect@body@stepcompactitem}%
290 {\global\@ignoretrue}
291 \newenvironment{stepcompactenum}[1][0cm]{%
292 \tpl@addmargin{#1}
293 \tpl@collect@body@stepcompactenum}%
294 {\global\@ignoretrue}
295 }{}

    Using \pause for step* lists if tpl@pausestep is true
296 \newcommand\@steplist[2]{%
297 \ifthenelse{\boolean{tpl@pausestep}}{%
298 \iftpl@inflipenv
299 \PackageError{tpllists}{%
300 flip* followed by step* environment does NOT work \MessageBreak
301 when the pausestep option is used}{%
302 Do not continue! Type <q> to stop and fix the nested list.
303 }

```

```

304 \else\iftpl@indimenv
305   \PackageError{tpllists}{%
306     dim* followed by step* environment does NOT work \MessageBreak
307     when the pausestep option is used}{%
308     Do not continue! Type <q> to stop and fix the nested list.
309   }
310 \else
311   \begin{#1}
312     \iftpl@inpausestepenv\else\let\tpl@origitem=\item\fi
313     \tpl@inpausestepenvtrue
314     \renewcommand{\item}{\pause\tpl@origitem}%
315     #2
316   \end{#1}
317 \fi\fi
318 }{
    Using \liststepwise for step* lists if tpl@pausestep is false
319 \iftpl@inflipenv
320   \begin{#1}
321     \renewcommand{\item}{\tpl@flipstep\tpl@origitem}
322     #2
323   \end{#1}%
324 \else\iftpl@indimenv
325   \begin{#1}
326     \renewcommand{\item}{\dstep\tpl@origitem}%
327     #2
328   \end{#1}%
329 \else\iftpl@instepenv
330   \begin{#1}
331     \renewcommand{\item}{\tpl@step\tpl@origitem}%
332     #2
333   \end{#1}%
334 \else
335   \liststepwise{%
336     \begin{#1}
337       \iftpl@instepenv\else\let\tpl@origitem=\item\fi
338       \tpl@instepenvtrue
339       \renewcommand{\item}{\tpl@step\tpl@origitem}%
340       #2
341     \end{#1}}
342 \fi\fi\fi
343 }
344 }
345
346 \newcommand\@stepitem[1]{%
347 \@steplist{olditemize}{#1}}
348 \newcommand\@stepdesc[1]{%
349 \@steplist{olddescription}{#1}}
350 \newcommand\@stepenum[1]{%
351 \@steplist{oldenumerate}{#1}}

```

```

352 \ifthenelse{\boolean{tpl@eqlist}}{%
353 \newcommand\stepeqlist[1]{%
354 \@steplist{oldeqlist}{#1}}
355 \newcommand\stepcompacteqlist[1]{%
356 \@steplist{compacteqlist}{#1}}
357 }{}
358 \ifthenelse{\boolean{tpl@paralist}}{%
359 \newcommand\stepcompactitem[1]{%
360 \@steplist{oldcompactitem}{#1}}
361 \newcommand\stepcompactenum[1]{%
362 \@steplist{oldcompactenum}{#1}}
363 }{}

```

Defining compact eqlist

```

364 \newenvironment{compacteqlist}[1][0cm]{%
365 % \tpl@addmargin{#1}
366 \begin{eqlist}[\parsepOpt\itemsepOpt]}%
367 {\end{eqlist}}

```

Redefining enumerate, itemize and description to handle changes made by introducing steps and leftmargini-option.

```

368 \renewenvironment{enumerate}[1][0cm]{%
369 \tpl@addmargin{#1}
370 \begin{oldenumerate}
371 \iftpl@instepenv
372 \renewcommand{\item}{\tpl@origitem}%
373 \fi
374 }%
375 {\end{oldenumerate}}
376
377 \renewenvironment{itemize}[1][0cm]{%
378 \tpl@addmargin{#1}
379 \begin{olditemize}
380 \iftpl@instepenv
381 \renewcommand{\item}{\tpl@origitem}%
382 \fi
383 }%
384 {\end{olditemize}}
385
386 \renewenvironment{description}[1][0cm]{%
387 % \tpl@addmargin{#1} % Has no effect - FIXME
388 \begin{olddescription}
389 \iftpl@instepenv
390 \renewcommand{\item}{\tpl@origitem}%
391 \fi
392 }%
393 {\end{olddescription}}

```

Redefining compactenum and compactitem to handle changes made by introducing steps and leftmargini-option.

```

394 \ifthenelse{\boolean{tpl@paralist}}{%

```

```

395 \renewenvironment{compactenum}[1][0cm]{%
396   \tpl@addmargin{#1}
397   \begin{oldcompactenum}
398     \iftpl@instepenv
399     \renewcommand{\item}{\tpl@origitem}%
400     \fi
401 }%
402 {\end{oldcompactenum}}
403
404 \renewenvironment{compactitem}[1][0cm]{%
405   \tpl@addmargin{#1}
406   \begin{oldcompactitem}
407     \iftpl@instepenv
408     \renewcommand{\item}{\tpl@origitem}%
409     \fi
410 }%
411 {\end{oldcompactitem}}
412 }{}

```

## Change History

v0.1	General: First public release. . . . . 3	v0.2	General: Added flipdesc, stepdesc, dimdesc environments for easy dynamic description lists. Improved behaviour when not in display mode. Fixed step lists behaviour when in display mode, but without colors. Added noflipendstep option and a setup command to enable setting of all options anywhere in the document . . . . . 3
v0.1a	General: Removed redefinition of eqlist (since it didn't work). . . . 3		
v0.1b	General: Corrected some typos in this documentation. Added option pausestep and made dim* (and all variants of flip*) lists work without colors by using boldface for active items. . . . . 3		

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