

# The `songproj` package\*

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## 1 Introduction

This package, together with the `beamer` class, is used to generate slideshows with song lyrics. This is typically used in religious services in churches equipped with a projector, for which this package has been written, but it can be useful for any type of singing assembly<sup>1</sup>. It provides environments to describe a song in a natural way, and formatting it into slides with overlays.

## 2 Usage

### 2.1 The `song` environment

The main feature of this package is the `song`, that allows the user to describe an entire song that will be formatted into slides.

`song` The `song`{ $\langle stanzas per slide \rangle$ }[ $\langle couplet list \rangle$ ] environment is used around an entire song. It takes a mandatory argument,  $\langle stanzas per slide \rangle$ , to specify whether the user wants to show one or two stanzas<sup>2</sup> on the slide. An optional argument,  $\langle couplet list \rangle$  is a comma-separated list of couplet (or verse) indexes, that allows the user to indicate that they want to include only these couplets of a large song: without this, all couplets will be included.

Inside of the `song` environment, the user will use the `\longest` command and the `intro`, `refrain`, `couplet`<sup>3</sup> and `final` environments.

**Warning** Inside a `song` environment, it is an error to write anything that is not an `intro`, `refrain`, `couplet`, `final` environment or a `\longest` command. Direct text would be typeset in a way that would disrupt the song formatting.

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\*This document corresponds to `songproj` v1.0.1, dated 2022/11/07.

<sup>1</sup>Indeed, the song used here as an example is not really a religious one! It was chosen because it is in the public domain and the author likes it.

<sup>2</sup>including the refrain

<sup>3</sup>We chose to use the French words *refrain* and *couplet* for several reason: the author is French, these words are understandable in English and their English equivalents, *chorus* and *verse*, have multiple meanings that would make them very ambiguous in both usage and implementation of this package.

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**\longest**    `\longest{<song line>}`

Inside a `song` environment, the `\longest{<song line>}` command is used to declare the longest line of a song, that will be used to properly center the song stanzas, as allowed by the `verse` package. That line is only used to compute and record its length, and will not be typeset.

**intro**        Inside a `song` environment, the optional `intro` environment declares a number of lines meant to be sung once, at the beginning of the song. In a psalm, this may be an antiphon.

**refrain**     Inside a `song` environment, the optional `refrain` environment declares the song refrain (or chorus). A song may start with its refrain, or with a first couplet, followed by the refrain. It is not useful to declare the refrain several time, as the `song` environment will take care of repeating between the couplets.

**couplet**     Inside a `song` environment, the `couplet` environment declares each couplet (or verse) of the song.

**final**        Inside a `song` environment, the optional `final` environment declares a number of lines meant to be sung once, at the end of the song. In an hymn, that may be a doxology.

**Example**    The following song is defined with three couplets and a refrain. Since its begins with a couplet, it will be formatted with the first couplet, the refrain, the second couplet, the refrain, and so on.

The `song` environment is given two arguments, `{2}[1,2]`. The first one tells it to show two stanzas, that is, both a couplet and the refrain, on the generated slide. The second argument tells it to include only the first two couplets in the output.

```
\begin{frame}
\begin{song}{2}[1,2]
  \longest{Light she was, and like a fairy,}
  \begin{couplet}
    In a cavern, in a canyon, \\
    Excavating for a mine. \\
    Dwelt a miner, forty-niner, \\
    And his daughter, Clementine. \\
  \end{couplet}
  \begin{refrain}
    Oh my darling, oh my darling, \\
    Oh my darling Clementine, \\
    You are lost and gone forever, \\
    Dreadful sorry, Clementine. \\
  \end{refrain}
  \begin{couplet}
    Light she was, and like a fairy, \\
    And her shoes were number nine, \\
    Herring boxes, without topses, \\
    Sandals were for Clementine. \\
  \end{couplet}
\end{song}
\end{frame}
```

```

\begin{couplet}
[...]
\end{couplet}
\end{song}
\end{frame}

```

## 2.2 The `\inputsong` command

---

```

\inputsong{<file>}{<stanzas per slide>}[<couplet list>]

```

---

The `\inputsong` command environment is used as a shortcut for typesetting a song written in an external file. That file should contain the song content, including intro, refrain, couplet or final as needed, but *without* being wrapped in a `song` environment.

For instance, one could write a file named `clementine.tex` containing the *content* of the `song` environment shown in example page 2, and use it in a slideshow:

```

\frame{\inputsong{clementine.tex}{2}[1,2]}

```

## 2.3 The refrain, couplet, intro and final environments

These commands are also usable outside of a `song` environment. In that case, they simply format a refrain or couplet, which can be useful when you need more manual control.

**refrain** Outside of a `song` environment, this environment simply wraps its content inside a `structure` and a `verse` environment. It takes an optional *<verse width>* argument, that is used to properly center the refrain, as allowed by the `verse` package.

**couplet** Outside of a `song` environment, this environment simply wraps its content inside a `verse` environment. It takes an optional *<verse width>* argument, that is used to properly center the refrain, as allowed by the `verse` package.

**intro** Outside of a `song` environment, these environments simply wrap their content inside a `em` and a `verse` environment. They takes an optional *<verse width>* argument, that is used to properly center the refrain, as allowed by the `verse` package.

**final**

## 2.4 Usage tips

For regular offices, there are several suggestions that can ease the creation and usage of lyric slideshows.

### 2.4.1 Using dedicated song files

It is suggested to write song lyrics in dedicated files, each containing a single the *content* of a `song` environment, without the environment wrapping itself. They can then be used with the `\inputsong` command.

For instance, one could write a file named `clementine.tex` containing the *content* of the `song` environment shown in example page 2. It would then be used in a slideshow such as:

```

\documentclass{beamer}
\usepackage{songproj}

\begin{document}
  \begin{frame}
    \input{song{clementine.tex}{2}[1,2,3]}
  \end{frame}
\end{document}

```

### 2.4.2 Importing text lyrics

Song lyrics are often found in text format with basic markup:

```

1. In a cavern, in a canon,
Excavating for a mine.
Dwelt a miner, forty-niner,
And his daughter, Clementine.

C. Oh my darling, oh my darling,
Oh my darling Clementine
You are lost and gone forever,
Dreadful sorry Clementine.

2. Light she was, and like a fairy,
And her shoes were number nine,
Herring boxes, without topses,
Sandals were for Clementine.

[...]

```

To avoid the tedious task of manually removing text and adding  $\LaTeX$  markup, we provide the `song2tex.py` helper. Please refer to its embedded help for detailed instructions about its usage:

```

$ ./song2tex.py --help
$ ./song2tex.py clementine.txt clementine.tex

```

### 2.4.3 Projection layout advice

During a religious service, a song lyrics projection is only a support, and should not draw their attention away from the main feature, which is the common prayer.

I therefore suggest using a very simple Beamer theme, such as its default one with the `owl` color theme, and removing the navigation symbols. I also suggest not showing song titles (or anything else that is not actually sung by the assembly) unless there is a good reason to do so, such as getting used to a song or set of songs you intend to reuse often.

```

\documentclass{beamer}
\usecolortheme{owl}
\setbeamertemplate{navigation symbols}{}
\usepackage{songproj}

```

```

\begin{document}
[...]
\end{document}

```

#### 2.4.4 Projection advice

For projecting song lyrics, you can take advantage of using a PDF presentation software able to show a presenter console on your laptop screen, and the current slide on the projector. Software like as [pdfpc](#) or [Pympress](#) can also understand and adapt their display to the concept of Beamer overlay.

## 3 Implementation

### 3.1 Dependencies

This module is written using L<sup>A</sup>T<sub>E</sub>X3 programming interfaces and command definitions:

```

1 \RequirePackage{expl3}
2 \RequirePackage{xparse}

```

The implementation of the `song` environment and its friends is mainly based on the `verse` package:

```

3 \RequirePackage{verse}

```

### 3.2 Internal definitions

Almost all definitions use the `expl3` syntax:

```

4 \ExplSyntaxOn

```

#### 3.2.1 Internal variables

We define a number of internal variables, that are used when reading and formatting a song. All of these variables are meant to be set globally: since there is no notion of a song within a song, we are certain that we will always be either outside of a song or inside a single song.

```

5 \bool_new:N \g__sp_song_bool           % are we in a song?
6 \bool_new:N \g__sp_song_start_bool    % are we at the start of a song?
7 \bool_new:N \g__sp_refrain_first_bool % does current song start with the
8                                           % refrain?
9 \int_new:N \g__sp_stanzas_per_slide_int % number of stanzas to show on each
10                                          % slide (1 or 2)
11 \dim_new:N \g__sp_linewidth_dim       % length of the longest line in current
12                                          % song
13 \tl_new:N \g__sp_intro_tl             % current song intro
14 \tl_new:N \g__sp_refrain_tl          % current song refrain
15 \seq_new:N \g__sp_couplets_seq       % current song couplets
16 \tl_new:N \g__sp_final_tl            % current song final
17 \seq_new:N \g__sp_couplet_indexes_seq % indexes of couplets to include

```

### 3.2.2 Internal environments

These are high-level internal environments, that are used in the implementation of user interface environments.

`__sp_refrain` This environment simply formats a song refrain. It is used in the user interface `refrain` environment.

```
18 \NewDocumentEnvironment {__sp_refrain} {}
19 % The environment opening may be followed by a [length], in fact part of its
20 % body, and will appear just after the opening of the verse environment and
21 % constitute its optional argument.
22 {
23   \begin{structureenv}
24   \begin{verse}
25 }
26 {
27   \end{verse}
28   \end{structureenv}
29 }
```

`__sp_couplet` This environment simply formats a song couplet. It is used in the user interface `couplet` environment.

```
30 \NewDocumentEnvironment {__sp_couplet} {}
31 % The environment opening may be followed by a [length], in fact part of its
32 % body, and will appear just after the opening of the verse environment and
33 % constitute its optional argument.
34 { \begin{verse} }
35 { \end{verse} }
```

`__sp_special` This environments simply formats a song intro of final. It is used in the user interface `intro` and `final` environments.

```
36 \NewDocumentEnvironment {__sp_special} {}
37 % The environment opening may be followed by a [length], in fact part of its
38 % body, and will appear just after the opening of the verse environment and
39 % constitute its optional argument.
40 {
41   \begin{em}
42   \begin{verse}
43 }
44 {
45   \end{verse}
46   \end{em}
47 }
```

### 3.2.3 Internal macros

These are macros that are used in the implementation of the `song` environment.

`\__sp_song_refrain` This macro uses the `__sp_refrain` environment to format the current song refrain.

```
48 \tl_gset:Nn \__sp_song_refrain
49 {
50   % Do we know the width of the longest song line?
51   \dim_compare:nNnTF \g__sp_linewidth_dim {=} {Opt}
```

```

52     { \begin{__sp_refrain} }
53     { \begin{__sp_refrain} [\g__sp_linewidth_dim] }
54     \tl_use:N \g__sp_refrain_tl
55     \end{__sp_refrain}
56   }

```

(End definition for `\__sp_song_refrain`.)

`\__sp_song_couplet:n` This macro uses the `__sp_couplet` environment to a specified couplet of the current song. It takes a single argument:

**#1** : index of the couplet to format.

```

57 \cs_gset:Npn \__sp_song_couplet:n #1
58 {
59   % Do we know the width of the longest song line?
60   \dim_compare:nNnTF \g__sp_linewidth_dim {=} {Opt}
61     { \begin{__sp_couplet} }
62     { \begin{__sp_couplet} [\g__sp_linewidth_dim] }
63   \seq_item:Nn \g__sp_couplets_seq {#1}
64   \end{__sp_couplet}
65 }

```

(End definition for `\__sp_song_couplet:n`.)

`\__sp_song_couplets:n` This macro inserts an containing all couplets of the current song in an overprint environment, in groups separated with `\onslide` commands. It takes a single argument:

**#1** : number of couplets to show together on each slide.

```

66 \cs_gset:Npn \__sp_song_couplets:n #1
67 {
68   \begin{overprint}
69   % Loop on all specified couplets
70   \int_step_inline:nn
71     { \seq_count:N \g__sp_couplet_indexes_seq }
72     {
73       % Before every #1 lines, i.e. when ((#1 - 1) mod #1 == 0),
74       % insert an \onslide
75       \int_compare:nNnTF
76         { \int_mod:nn { \int_eval:n{##1 - 1} } {#1} } { = } { 0 }
77         { \onslide<+> }
78         { \vskip \stanzaskip }
79       \__sp_song_couplet:n { \seq_item:Nn \g__sp_couplet_indexes_seq {##1} }
80     }
81   \end{overprint}
82 }

```

(End definition for `\__sp_song_couplets:n`.)

`\__sp_song_intro` This macro uses the `__sp_special` environment to format the current song intro.

```

83 \tl_gset:Nn \__sp_song_intro
84 {
85   % Do we know the width of the longest song line?
86   \dim_compare:nNnTF \g__sp_linewidth_dim {=} {Opt}
87     { \begin{__sp_special} }
88     { \begin{__sp_special} [\g__sp_linewidth_dim] }
89   \tl_use:N \g__sp_intro_tl

```

```

90   \end{__sp_special}
91   }

```

*(End definition for \\_sp\_song\_intro.)*

`\_sp_song_final` This macro uses the `\_sp_refrain` environment to format the current song final.

```

92   \tl_gset:Nn \_sp_song_final
93   {
94     % Do we know the width of the longest song line?
95     \dim_compare:nNnTF \g__sp_linewidth_dim {=} {Opt}
96     { \begin{__sp_special} }
97     { \begin{__sp_special} [\g__sp_linewidth_dim] }
98     \tl_use:N \g__sp_final_tl
99     \end{__sp_special}
100  }

```

*(End definition for \\_sp\_song\_final.)*

`\_sp_song` This macro inserts the entire song, alternating refrain and couplets in an `overprint` environment.

```

101  \tl_gset:Nn \_sp_song
102  {
103    % Is there a song intro?
104    \tl_if_empty:NTF \g__sp_intro_tl
105    {}
106    {
107      \visible<1> {\_sp_song_intro}
108      % The combination of overprint with verse that comes next somehow adds
109      % extra vertical space that needs to be removed.
110      \vskip -\stanzaskip
111    }
112
113    \begin{overprint}
114
115    % Does the song begin with the refrain?
116    \bool_if:NTF \g__sp_refrain_first_bool
117    {
118      % If so, print an initial refrain
119      \onslide<+>
120      \_sp_song_refrain
121    }
122    {}
123
124    % Is there a refrain?
125    \tl_if_empty:NTF \g__sp_refrain_tl
126    {
127      % No refrain, loop on all specified couplets and insert them
128      \seq_map_inline:Nn
129      \g__sp_couplet_indexes_seq
130      {
131        \onslide<+>
132        \_sp_song_couplet:n {#1}
133      }
134    }

```



```

135     {
136       % There is a refrain, loop on all specified couplets and, each time,
137       % insert both a couplet and the refrain
138       \seq_map_inline:Nn
139         \g__sp_couplet_indexes_seq
140         {
141           \onslide<+>
142           \__sp_song_couplet:n {#1}
143           \onslide<+>
144           \__sp_song_refrain
145         }
146     }
147   \end{overprint}
148
149   % Is there a song final?
150   \tl_if_empty:NTF \g__sp_final_tl
151   {}
152   {
153     % Add extra spacing
154     \vskip \stanzaskip
155     \visible<.> {\__sp_song_final}
156   }
157 }

```

(End definition for `\__sp_song`.)

### 3.3 User interface

These environments constitute our user interface. They allow the user to define songs, refrains and couplets.

**refrain** This environment handles a refrain :

- outside of a song, it uses the `\__sp_refrain` environment to directly format it ;
- inside a song, it stores it into `\g__sp_retrain_tl`, so it can be formatted by the end of the `song` environment.

```

158 \NewDocumentEnvironment {refrain} { +b }
159 % The environment opening may be followed by a [length], in fact part of its
160 % body, and will appear just after the opening of the \__sp_refrain
161 % environment and constitute its optional argument.
162 {
163   % Are we in a song?
164   \bool_if:NTF \g__sp_song_bool
165   {
166     % We are in a song, are we at its start?
167     \bool_if:NTF \g__sp_song_start_bool
168     {
169       % Indicate that we are no longer at the start of the song
170       \bool_gset_false:N\g__sp_song_start_bool
171       % and that the refrain comes first
172       \bool_gset_true:N\g__sp_refrain_first_bool
173     }
174   }

```

```

175         % Anyway, store the refrain
176         \tl_gset:Nn \g__sp_refrain_tl {#1}
177     }
178     {
179         % We are not in a song, use __sp_refrain to format the refrain
180         \begin{__sp_refrain}
181             #1
182         \end{__sp_refrain}
183     }
184 }
185 {}

```

**couplet** This environment handles a couplet, in a similar way:

- outside of a song, it uses the `__sp_couplet` environment to directly format it ;
- inside a song, it stores it by appending it to `\g__sp_couplets_seq`, so it can be formatted by the end of the `song` environment.

```

186 \NewDocumentEnvironment {couplet} { +b }
187 % The environment opening may be followed by a [length], in fact part of its
188 % body, and will appear just after the opening of the __sp_couplet
189 % environment and constitute its optional argument.
190 {
191     % Are we in a song?
192     \bool_if:NTF \g__sp_song_bool
193     {
194         % Are we at in a song, are we at its start?
195         \bool_if:NTF \g__sp_song_start_bool
196         {
197             % Indicate that we are no longer at the start of the song
198             \bool_gset_false:N \g__sp_song_start_bool
199             % and that the refrain does not come first
200             \bool_gset_false:N \g__sp_refrain_first_bool
201         }
202         {}
203         % Anyway, store this couplet
204         \seq_gput_right:Nn \g__sp_couplets_seq { {#1} }
205     }
206     {
207         % We are not in a song, use __sp_couplet to format this couplet
208         \begin{__sp_couplet}
209             #1
210         \end{__sp_couplet}
211     }
212 }
213 {}

```

**intro** This environment handles a song intro, in a similar way:

- outside of a song, it uses the `__sp_special` environment to directly format it;
- inside a song, it stores it into `\g__sp_intro_tl` so it can be formatted by the end of the `song` environment.

```

214 \NewDocumentEnvironment {intro} { +b }
215 % The environment opening may be followed by a [length], in fact part of its
216 % body, and will appear just after the opening of the __sp_special
217 % environment and constitute its optional argument.
218 {
219 % Are we in a song?
220 \bool_if:NTF \g__sp_song_bool
221 {
222 % We are in a song, store its intro
223 \tl_gset:Nn \g__sp_intro_tl {#1}
224 }
225 {
226 % We are not in a song, use __sp_special to format the intro
227 \begin{__sp_special}
228 #1
229 \end{__sp_special}
230 }
231 }
232 {}

```

**final** This environment handles a song final, in a similar way:

- outside of a song, it uses the `__sp_special` environment to directly format it;
- inside a song, it stores it into `\g__sp_final_tl` so it can be formatted by the end of the song environment.

```

233 \NewDocumentEnvironment {final} { +b }
234 % The environment opening may be followed by a [length], in fact part of its
235 % body, and will appear just after the opening of the __sp_special
236 % environment and constitute its optional argument.
237 {
238 % Are we in a song?
239 \bool_if:NTF \g__sp_song_bool
240 {
241 % We are in a song, store its intro
242 \tl_gset:Nn \g__sp_final_tl {#1}
243 }
244 {
245 % We are not in a song, use __sp_special to format the intro
246 \begin{__sp_special}
247 #1
248 \end{__sp_special}
249 }
250 }
251 {}

```

**\longest** This macro measures the length of a song line and stores it, so it can be used by the `song` environment to properly center refrain and couplets. It takes a single argument:  
**#1** : a song line to measure.

```

252 \NewDocumentCommand {\longest} { m } { \settowidth {\g__sp_linewidth_dim} {#1} }

```

(End definition for `\longest`. This function is documented on page 2.)

**song** This environment is used as a container for entire songs. On opening, it does several things:

1. it stores its arguments into variables with a descriptive name;
2. it clears out any previously stored refrain, couplet, intro, final and longest song line;
3. it sets the `\g__sp_song_bool` variable to indicate that we are inside a song, which will alter the behaviour of the `refrain` and `couplet` environments so they record their content rather than directly formatting it into the document;
4. it sets the `\g__sp_song_start_bool` variable to indicate that we are at the start of the song, which will allow the next `refrain` or `couplet` to tell if the song starts with the refrain or with a couplet;

This environment takes two arguments:

- #1** : number of stanzas (counting couplets and refrain, when there is one) per slide;  
**#2** : list of couplets to include (defaults to all), for instance 1,3,4.

```

253 \NewDocumentEnvironment {song} { m o }
254   % {number of stanzas per slide (1 or 2)}
255   % [list of couplets to include (defaults to all)]
256   {
257     % Put arguments into variables with understandable names
258     \int_gset_eq:NN {\g__sp_stanzas_per_slide_int} {#1}
259     \IfNoValueTF {#2}
260       { \seq_gclear:N \g__sp_couplet_indexes_seq }
261       { \seq_gset_from_clist:Nn \g__sp_couplet_indexes_seq {#2} }
262
263     % Clear out intro, refrain, couplet, final and longest song line
264     \tl_gclear:N \g__sp_intro_tl
265     \tl_gclear:N \g__sp_refrain_tl
266     \seq_gclear:N \g__sp_couplets_seq
267     \tl_gclear:N \g__sp_final_tl
268     \dim_zero:N {\g__sp_linewidth_dim}
269
270     % Indicate that we are in a song, and at its start
271     \bool_gset_true:N \g__sp_song_bool
272     \bool_gset_true:N \g__sp_song_start_bool
273   }

```

And on closing:

- if no list of couplet indexes to use have been given, it generates one covering all couplets in order;
- it uses internal functions to insert the intro, refrain, couplets and final into the document, in the right order according to the song structure (refrain or couplet first) and to the formatting instructions (one or two stanzas per slide).

```

274 {
275   % Have we been given indexes of specific couplets to use?
276   \seq_if_empty:NTF \g__sp_couplet_indexes_seq
277     {
278       % If not, generate it from the list of couplets
279       \int_step_inline:nn
280         { \seq_count:N \g__sp_couplets_seq }

```

```

281     { \seq_gput_right:Nn \g__sp_couplet_indexes_seq {##1} }
282   }
283   {}
284
285 % Now we actually start inserting things into the document.
286 % How many stanzas per side did the user request?
287 \int_compare:nNnTF \g__sp_stanzas_per_slide_int {>} {1}
288 {
289   % More than one stanza per slide
290   %
291   % Is there an intro?
292   \tl_if_empty:NTF \g__sp_intro_tl
293     {}
294     {
295       \visible<1> {\__sp_song_intro}
296       % Adjust vertical spacing depending on whether the refrain or the
297       % couplets follow.
298       \bool_if:NTF\g__sp_refrain_first_bool
299         {
300           % Refrain comes next, add extra space
301           \vskip \parsep
302         }
303         {
304           % Couplets come next, the combination of their overprint and
305           % verse environment somehow adds extra vertical space that
306           % needs to be removed.
307           \vskip -\stanzaskip
308         }
309     }
310
311 % Is there a refrain?
312 \tl_if_empty:NTF \g__sp_refrain_tl
313 {
314   % If there is no refrain, we use \__sp_song_couplets:n to write the
315   % couplets, \g__sp_stanzas_per_slide_int at a time.
316   \__sp_song_couplets:n { \int_use:N \g__sp_stanzas_per_slide_int }
317 }
318 {
319   % If there is a refrain, we use \__sp_song_refrain to write the
320   % refrain and \__sp_song_couplets:n to write overprint with all
321   % couplets.
322
323   % Does the song begin with the refrain?
324   \bool_if:NTF\g__sp_refrain_first_bool
325     {
326       \__sp_song_refrain
327       \vskip -\stanzaskip
328       \__sp_song_couplets:n 1
329     }
330     {
331       \__sp_song_couplets:n 1
332       \vskip \stanzaskip
333       \__sp_song_refrain
334     }

```

```

335     }
336
337 % Is there a final?
338 \tl_if_empty:NTF \g__sp_final_tl
339 {}
340 {
341     % Adjust vertical spacing depending on whether we follow the
342     % refrain or the couplets.
343     \tl_if_empty:NTF \g__sp_refrain_tl
344     {
345         % No refrain, we follow the couplets, add extra space
346         \vskip \stanzaskip
347     }
348     {
349         % There was a refrain, did it come first?
350         \bool_if:NTF \g__sp_refrain_first_bool
351         {
352             % Refrain came first, we follow the couplets, add extra space
353             \vskip \stanzaskip
354         }
355         {
356             % Refrain came last, we follow it, add extra space
357             \vskip \parsep
358         }
359     }
360     \visible<.> {\__sp_song_final}
361 }
362 }
363 {
364     % If the user requested one stanza per slide, we use \__sp_song to
365     % write the entire song in a single overprint environment.
366     \__sp_song
367 }
368 % Indicate that we are no longer in a song
369 \bool_gset_false:N\g__sp_song_bool
370 }

```

**\inputsong** This macro starts a `song` environment and `\inputs` the song content from an external file.

```

371 \NewDocumentCommand {\inputsong} { m m o }
372 {
373     \IfNoValueTF {#3}
374     { \begin{song} {#2} }
375     { \begin{song} {#2} [#3] }
376     \input{#1}
377     \end{song}
378 }

```

(End definition for `\inputsong`. This function is documented on page 3.)

### 3.4 Wrapping up

Now that we have defined everything we need, we can leave the `expl3` syntax and return to normal `TEX` syntax:

379 \ExplSyntaxOff