

# The Songbook Package

Version 4.2

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2006/10/10

## Abstract

This package provides an all purpose songbook style for L<sup>A</sup>T<sub>E</sub>X2<sub>ε</sub>. The package allows for three types of output from a single input file: words and chords books for the musicians to play from, words only songbooks for the congregation to sing from, and overhead transparency masters for congregational use. The style will also print a table of contents, an index sorted by title and first line, and an index sorted by key. It attempts to handle songs in multiple keys, as well as songs in multiple languages.

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## Preface to version 4.3

What's new in version 4.3:

- found a problem with the optional parameter to the xlatn environment added in Release 4.2; that optional parameter has been removed

- a new `songTranslation` environment added to provide the required capability for the Artist index option
- added a new song to the sample songbook to act as a test case for translation

## Preface to version 4.2

What's new in version 4.2:

- added a new Artist index option
- added a new optional parameter to the `xlatn` environment; in support of the new Artist index option

## Preface to version 4.1a

What's new in version 4.1a:

- Corrected a bug whereby the new exclude song mode was throwing an error when either the `\SBRef` or `\SBMargNote` commands were used

## Preface to version 4.1

What's new in version 4.1:

- a new optional `\Include?` parameter has been added to the `song` environment; that parameter allows you to have a song omitted from the printed songbook yet still have the song counter incremented and the song's table of contents entry written to a separate TOC file (see the description of the `song` environment, below, for more details)
- to go along with the new optional `\Include?` parameter is a new `\usepackage{}` option, `printallsongs`, which overrides the individual song option declarations and prints all the songs in the songbook
- the song “My Sun and My Shield” was removed from the sample songbook; it turns out that this is a Ted Sandquist song and is not in the public domain
- `chordbk`'s `compactsong` option is still experimental

## Preface to version 4.0

What's new in version 4.0:

- the Songbook style has now completed its transition to L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε (I *think*): there is now a single `.sty` file which accepts options in order to invoke the different songbook styles. The Songbook style now also accepts and produces reasonable output for all of L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε's standard papersize options.
- the song title block (where the title, copyright info., etc. are listed) has been changed, use of the `\centerline` macro has been replaced with a `center` environment. This change is *not compatible* with previous versions of `songbook.sty` and requires you to re-verify all page breaks (mostly in words-only mode). The reason for making the change is to allow long song titles to line-wrap (instead of hanging off the edge of the page), and this means that the definition of the following macros has been changed: `\STitle`, `\CpyRt`, `\WAndM`, and `\ScriptRef`. The centering of these lines is now also done within a center environment; in each the centering may now be disabled by adding an optional first parameter (any value except ‘Y’)

- since the change to the title block invalidated pagination of the previous version I have taken the opportunity to fine tune the value of `\SpaceAfterSong`, a value that is used primarily in words-only mode: the inter-song gap has been decreased to `\vspace{0ex plus10ex minus3ex}` (from `\vspace{0ex plus15ex minus0ex}`)
- a new space command, `\SpaceAfterTitleBlk`, has been created to allow the space between a song’s title block and its versicles to be tuned by the user; this was a previously hardcoded value
- a bug in the `SBBacket` environment has been corrected: long lines were not always exhibiting their hanging indentation
- the style now supports all of L<sup>A</sup>T<sub>E</sub>X2e’s standard papersizes. While the output will not be ideal for all papersizes, it does produce sane and usable results for all papersizes. I would be most appreciative if European users would send me page layout corrections for the A4, A5, and B5 sizes
- added a new environment, `SBOpGroup` (i.e., “an open group”), serves to group the lines of a verse or chorus together, but not indent or label them. Use of this environment allows for better control of font changes, proper indentation of wrapped lines, and automatic spacing of open groups which follow one another. I strongly suggest that `SBOpGroup` be used to enclose any set of lines which don’t otherwise end up in one of the songbook environments when typesetting with this package
- `chordbk` mode now supports one variation: `compactsong`. In `compactsong` mode the songs are laid out in two columns; note that the song title block spans the two columns. The songs are set in a smaller typeface to allow them to fit into the smaller space two column mode supplies. This mode should be considered experimental for the present time; see its description, below, for more details
- `conditionals.sty` has been updated with more current information and macros, as supplied by Donald Arseneau
- all of the verse-like environments now have their `\baselineskip` amount expressly calculated just prior to laying out their lines. This has been done in order to overcome the problem all previous versions of the songbook style had which was that linespacing differed based upon whether a particular line contained chords. Now all lines are spaced the same, regardless of whether they contain a chord. I consider the previous behaviour—where linespacing varied—to be a bug. If you really must retain the old behaviour this can be done by inserting the following code into the preamble of your document:

```
\renewcommand{\sbSetsbBaselineSkipAmt}
{\setlength{\sbBaselineSkipAmt} {\baselineskip}}
```

- the `\SBDefaultFont` command no longer needs to be specified at the top of each songbook
- fixed a bug that was inhibiting the Songbook style from detecting blank and empty `song` parameters
- the commands which had previously been listed as deprecated (i.e., to be removed in some future release) have all been removed
- the following commands have been moved from the “Obsolete Macros” section into “Deprecated Macros” section and will be removed in the next major release of the Songbook style: `\False`, `\True`, `\ChordBk`, `\Overhead`, `\SongEject`, `\WordBk`, and `\WordsOnly`

A few minor changes were made during release testing of version 4.0. The following changes occurred between version 4.0pre2 and 4.0:

- the spacing around the `SBBacket` environment has been *tuned*: `\SpaceAfterSBBacket` has been increased, and a new `\SpaceBeforeSBBacket` amount has been added
- added missing space around the `SBBacket*` environment; using `\SpaceBeforeSBBacket` and `\SpaceAfterSBBacket`
- removed unused length, `\SBBacketHangAmt`
- added a new `\LeftMarginSBBacket` length and rewrote the part of the `SBBacket` environment that creates the tag and left indents the versicle. The `SBBacket` environment now left aligns its words with those of the `SBVerse` and `SBChorus` versesicles.

## Part I

# High Level Documentation

## 1 Description

The Songbook document style provides a core set of functions for the production of songbooks. Three pre-defined songbook formats and one variation are provided (and they are invoked via options to the `\usepackage{songbook}` command) and they are typically used along with L<sup>A</sup>T<sub>E</sub>X's `book` class. One of the following options *must* be specified or the Songbook style will throw an error: `chordbk`, `wordbk`, or `overhead`.

An empty minimal songbook looks like the following:

```
\documentclass{book}
\usepackage[chordbk]{songbook}

\begin{document}
  \begin{song}{}{}{}{}{}
  \end{song}
\end{document}
```

We'll start by explaining the `\usepackage[] {songbook}` options:

- |                       |   |
|-----------------------|---|
| <code>chordbk</code>  | <code>chordbk</code> a songbook suitable for musicians which gives both lyrics and words (this is the default mode of the Songbook document style)—one variation to this style is offered, compact song mode (see below). This option is specified as <code>\usepackage[chordbk]{songbook}</code> |
| <code>wordbk</code>   | <code>wordbk</code> a words-only songbook suitable for mass distribution to those singing but not playing an instrument. This option is specified as <code>\usepackage[wordbk]{songbook}</code>   |
| <code>overhead</code> | <code>overhead</code> to produce overhead transparencies from songbook source files. This option is specified as <code>\usepackage[overhead]{songbook}</code>   |

Other additional options supported by the Songbook style include all L<sup>A</sup>T<sub>E</sub>X's standard papersize options, and:

- |                          |  |
|--------------------------|--|
| <code>compactsong</code> | <code>compactsong</code> this option only takes effect along with <code>chordbk</code> . It causes the songs to be set in two columns, where the song title information spans the both columns. It is specified as <code>\usepackage[chordbk,compactsong]{songbook}</code> |
|--------------------------|--|

The version of `compactsong` provided in this release should be considered experimental! The formatting produced in this mode is not always desirable. An outstanding question to be answered is whether or not new songs title blocks should span both columns, and whether each song should generate a page break; in other words, should this feature set be implemented as two pieces: `compactsong` and `compactbook`. The idea would be to provide a `compactsong` environment, which could be judiciously used on a per song basis, and a `compactbook` mode which would result in a compressed songbook, where the words and chords book would look very much like a words only songbook (but with chords).

`printallsongs` `printallsongs` this option causes all songs in a songbook to be printed, regardless of what `<Include?>` option may have been specified on each individual `song` environment

## 2 Commands

This section is broken into several subsections. Hopefully this makes the individual commands easier to understand by placing them in a meaningful context. Since some forward references exist, it may be necessary to read through the entire *Commands* section a couple of times before it makes complete sense.

This reference section will present terse command and environment descriptions; more detailed descriptions, along with examples, may be found in the implementation detail section at the bottom of this document.

Note that each subsection's descriptions are presented in alphabetical order; while this doesn't make the sections quite as easy to read, it makes them much more useful for reference purposes.

### 2.1 Environments

The Songbook style defines several new environments to make the formatting of songbooks easier and more consistent (and most of them have parameters). Unless otherwise noted, all of the environments are *verse*-like: wrapped lines are indented more than the first line is indented.

`SBBracket` `\begin{SBBracket}{<bracket tag>}{...stuff to enbracket...}`  
`\end{SBBracket}` is the environment used to mark certain lines of the song with a tag and bracket. An example usage is to mark the line of the song played to end the piece, if it is somehow different than the chords played if one were to repeat the song. For example:

```

    Be\Ch{Am}{cause} of \Ch{Dm7}{what} the...
\end{SBChorus}

\begin{SBBracket}{Ending}
    Give \Ch{F}{thanks,}\Ch{C/F}{} \Ch{Bb/F}{}...
\end{SBBracket}

```

This is very similar to the `SBOccurs` environment, the difference being how the section of the song is marked.

`SBBracket*` There are two versions of this environment: `SBBracket` and `SBBracket*`. They operate identically, except that the `*ed` version doesn't print its tag and bracket in words-only modes.

At present, `\SBBracket` and `\SBBracket*` are fragile and are not compatible with `SBVerse`, `SBChorus`, or any other environment; with the exception of the `song` environment.

- SBChorus** `\begin{SBChorus}\langle \dots the chorus \dots \rangle\end{SBChorus}` is the environment to wrap around a chorus that you wish to be indented and given a chorus tag (“Ch:”). A song with one verse and one chorus, where the chorus is sung after the verse would probably use the `SBChorus` environment. Whereas, if the chorus was sung first, an `SBVerse` environment would probably be used. The indent amount for lines that are too long is set by redefining the `\HangAmt` command.
- SBChorus\*** The `SBChorus*` version of this command indents but does not place a `\SBChorusTag` before the chorus.
- SBExtraKeys** `\begin{SBExtraKeys}\langle (song content) \rangle\end{SBExtraKeys}` is the environment used when you wish to list the song again in another key. Typically, this environment is used along with an `\STitle` command. For example:
- ```
\begin{SBExtraKeys}{
  \STitle{You Alone}{D}

  \begin{SBVerse}
    \Ch{D}{Ho}\Ch{F#m}{1y,} \Ch{G}{Ho}\Ch{D}{1y,}
    ...
  \end{SBVerse}
}\end{SBExtraKeys}
```
- SBOccurs** `\begin{SBOccurs}\langle (the occurrence) \rangle\langle \dots stuff to group \dots \rangle\end{SBOccurs}` is the environment used to mark a given line of the song with a tag and brackets. For example “1,3” would designate that this passage applies to the 1st and 3rd occurrences. For example:
- ```
Be\Ch{Am}{cause} of \Ch{Dm7}{what} the...
\end{SBChorus}

\begin{SBOccurs}{1,3}
  Give \Ch{F}{thanks,}\Ch{C/F}{ } \Ch{Bb/F}{ }...
\end{SBOccurs}
```
- SBOpGroup** `\begin{SBOpGroup}\langle \dots stuff to group \dots \rangle\end{SBOpGroup}` is the environment in which unmarked verses are placed; so called “open groups”.
- SBSection** `\begin{SBSection}\langle \dots the section \dots \rangle\end{SBSection}` is very much like L<sup>A</sup>T<sub>E</sub>X’s verse environment, except that here the sections are numbered. The indent amount for lines that are too long is set using the `\HangAmt` command. This environment would be used in place of the `\SBVerse` environment for songs which are broken into pieces/sections, in place of, or in addition to, verses.
- SBSection\*** The `SBSection*` version of this command indents but doesn’t place an `\SBSectionCnt` before the chorus. Similar to L<sup>A</sup>T<sub>E</sub>X’s `\section*` command, the section counter is not incremented either.
- SBVerse** `\begin{SBVerse}\langle \dots the chorus \dots \rangle\end{SBVerse}` is the environment to wrap around a verse that you wish to be indented and given a verse number (`\SBVerseCnt`). A song with one chorus and one verse, where the verse is sung after the chorus would probably use the `SBChorus` environment. Whereas, if the chorus was sung first, an `SBVerse` environment would probably be used. The indent amount for lines that are too long is set with the `\HangAmt` command.
- SBVerse\*** The `SBVerse*` version of this environment indents but does not place an `\SBVerseCnt` before the chorus; similar to L<sup>A</sup>T<sub>E</sub>X’s `\section*` command, the verse counter is not incremented either.

`song` `\begin{song}[\langle 1 \rangle]{\langle 2 \rangle} ... {\langle 7 \rangle} \langle ... the song ... \rangle \end{song}` is the environment which each song resides within. The parameter list is quite long, and is defined as:

1. Include this song? (optional);
2. Song title;
3. Key song is written in;
4. Copyright information;
5. Name(s) of composer and lyricist;
6. Scripture reference for the song;
7. Copyright licensing information.

The `song` environment takes care of making index entries, incrementing `\SBSongCnt` and page generation (if necessary). Note, this environment makes use of `\everypar`. See the *Example* section, below, for a sample one-song songbook document.

The “Include this song?” parameter is optional; the parameter is referred to within this documentation as “*⟨Include?⟩*”. If you don’t specify it (and you typically do not), then it behaves as though you provided a value of “Y”. If you specify any other value then the song is excluded from the current songbook; however, a table of contents record is written to a separate file (*jobname.tocS*).

`\CBExcl` Some predefined macros have been provided which allow conditional exclusion of a song (they are used in the optional parameter): `\CBExcl`, `\OHExcl`, `\WBExcl`, and `\WOExcl`; respectively, these correspond to exclude in `chordbk` mode, `overhead` mode, `wordbk` mode, and when in words-only (i.e., not in `chordbk`) mode.

As an organisation’s songbook grows, and time passes, it is not uncommon for the songbook to become overly large. The *⟨Include?⟩* parameter allows for a songbook’s songs to be easily removed and re-added, without requiring old songbooks to be destroyed or overhead transparencies renumbered.

When the “copyright information” or “composer & lyricist” parameters are left empty then the string defined by the `\SBUnknownTag` macro used (instead of leaving whitespace in the song header).

`songTranslation` `\begin{songTranslation}{\langle 1 \rangle} ... {\langle 4 \rangle} \langle ... the translation ... \rangle \end{songTranslation}` is the new song translation environment. The parameter list is defined as:

1. Translation language;
2. Translated song title (in the foreign language);
3. Translation permission;
4. Who performed the translation.

The `songTranslation` environment always occurs within a `song` environment; it resets the verse counter, causes the title and other parameter information to be displayed, and makes the appropriate index and table of contents entries. It is important for the `songTranslation` environment to occur within a `song` environment, because the `songTranslation` environment inherits the `song` environment’s `\everypar` definition.

`xlatn` `\begin{xlatn}{\langle 1 \rangle} ... {\langle 3 \rangle} \langle ... the translation ... \rangle \end{xlatn}` is the old song translation environment—this environment is considered obsolete and will be removed in a future release of the Songbook macros; it has been replaced by the `songTranslation` environment. The parameter list is defined as:



1. Translated song title (in the foreign language);
2. Translation permission;
3. Who performed the translation.

The `xlatn` environment always occurs within a `song` environment; it resets the verse counter, causes the title and other parameter information to be displayed, and makes the appropriate index and table of contents entries. It is important for the `xlatn` environment to occur within a `song` environment, because the `xlatn` environment inherits the `song` environment's `\everypar` definition.

## 2.2 Primary Songbook Macros

Along with the Songbook environments, these are the macros you will most often use when constructing a songbook (of any style).

<code>\CBPageBrk</code>	<code>\CBPageBrk</code> forces a new page if <code>\ifChordBk</code> is true.
<code>\Ch</code>	<p><code>\Ch{⟨chord⟩}{⟨syllable⟩}</code> the chord over lyrics command definition. This is the most commonly used command in the Songbook style. The words-only sub-style turns off the chord generation and just prints the second parameter. The <code>⟨chord⟩</code> parameter is left-justified over the <code>⟨syllable⟩</code> parameter. Any ‘#’ or ‘b’ characters in the <code>⟨chord⟩</code> parameter are replaced with ‘♯’ and ‘b’ characters, respectively. Also, if a bass note is specified in a chord (by way of a ‘/’ character followed by the note) then it will appear in a smaller font than the rest of the <code>⟨chord⟩</code>.</p> <p>It is often desirable to typeset a chord—or set of chords—inside square brackets, to indicate that they are optional. A lighter weight font is probably desired, so that the brackets do not detract from the chord name, so any ‘[’ and ‘]’ characters are typeset with the font specified by the <code>\ChBkFont</code> macro.</p> <p>To set the chord raise amount to a value that matches version 1.x and 2.x releases of the Songbook style, insert the following command into the preamble of your document:</p> <pre style="text-align: center;">\renewcommand{\SBChordRaise}{\SBOldChordRaise}</pre>
<code>\Chr</code>	<p><code>\Chr{⟨chord⟩}{⟨syllable⟩}</code> this command performs the same function as the <code>\Ch</code> command with one exception: the <code>\Chr</code> command inserts a rule, at the height specified by the <code>\SBRuleRaiseAmount</code> macro, when the chord is wider than the syllable. The default value creates an extended em-dash-like rule; a value of 0pt creates an underbar-like rule. See the <i>Usage Guidelines</i> section of this document, below, for a more detailed explanation.</p>
<code>\ChX</code>	<p><code>\ChX{⟨chord⟩}{⟨syllable⟩}</code> this command performs the same function as the <code>\Ch</code> command with one exception: the <code>\ChX</code> command causes spaces trailing the command to be ignored. See the <i>Usage Guidelines</i> section of this document, below, for a more detailed explanation.</p>
<code>\CSColBrk</code>	<code>\CSColBrk</code> generates a column break here if we're in <code>compactsong</code> mode.
<code>\makeArtistIndex</code>	<code>\makeArtistIndex</code> starts creation of an index of songs by artist (composer). If you need to add your own information to this index use the <code>\artistIndex[] []</code> command, documented in the <i>Detailed Documentation</i> section, below.
<code>\makeKeyIndex</code>	<code>\makeKeyIndex</code> starts creation of an index of songs by key. If you need to add your own information to this index use the <code>\keyIndex[] []</code> command, documented in the <i>Detailed Documentation</i> section, below.

<code>\makeTitleContents</code>	<code>\makeTitleContents</code> starts creation of a table of contents. If you need to add your own information to this index use the <code>\titleContents [] []</code> command, documented in the <i>Detailed Documentation</i> section, below.
<code>\makeTitleContentsSkip</code>	<code>\makeTitleContentsSkip</code> starts creation of a table of contents of songs excluded from the current songbook. This macro operates in the same manner as <code>\makeTitleContents</code> .
<code>\makeTitleIndex</code>	<code>\makeTitleIndex</code> starts creation of a title and first line index. If you need to add your own information to this index use the <code>\titleIndex [] []</code> command, documented in the <i>Detailed Documentation</i> section, below.
<code>\NotWOPageBrk</code>	<code>\NotWOPageBrk</code> forces a new page if <code>\ifWordsOnly</code> is false.
<code>\OHContPgFtr</code>	<code>\OHContPgFtr</code> prints a page heading continuation footer on overheads; this macro must be manually inserted where needed. <code>\OHContPgHdr</code> is a no-op, except when <code>\ifOverhead</code> is true.
<code>\OHContPgHdr</code>	<code>\OHContPgHdr</code> prints a page heading continuation header on overheads; this macro must be manually inserted where needed. <code>\OHContPgHdr</code> is a no-op, except when <code>\ifOverhead</code> is true.
<code>\OHPageBrk</code>	<code>\OHPageBrk</code> forces a new page if <code>\ifOverhead</code> is true.
<code>\SBBridge</code>	<code>\SBBridge{&lt;the bridge&gt;}</code> is used to encapsulate a bridge: it causes <i>&lt;the bridge&gt;</i> to be set with <code>\SBBridgeTag</code> , using in the <code>\SBBridgeTagFont</code> font. In words-only mode this command is a no-op.
<code>\SBEnd</code>	<code>\SBEnd[&lt;use in words-only&gt;]{&lt;the ending&gt;}</code> is used to encapsulate a song ending: it causes <i>&lt;the ending&gt;</i> to be set with the <code>\SBEndTag</code> , using in the <code>\SBEndTagFont</code> font. The first parameter is optional and if used is put in square brackets; specifying any value except ‘N’ will cause the ending to be used in words-only mode. Some examples of its intended use are:  <i>This will cause the ending to be printed in words-only mode. Note how the parameter is specified in square brackets!</i>  <code>\SBEnd[Y]{Give \Ch{F}{thanks,} \ldots}</code>  <i>In this case the ending is a no-op in words-only mode.</i>  <code>\SBEnd{\Ch{A}{-} \Ch{B/A}{-} \Ch{D}{-}}</code>
<code>SBIntro</code>	<code>\SBIntro[&lt;use in words-only&gt;]{&lt;the introduction&gt;}</code> is used to encapsulate any introduction to a song: it causes <i>&lt;the introduction&gt;</i> to be set with an intro tag of “Intro:”, using in the <code>\SBIntroTagFont</code> font. The first parameter is optional and if used is put in square brackets; specifying any value except ‘N’ will cause the ending to be used in words-only mode. Some examples of its intended use are:  <i>This will cause the ending to be printed in words-only mode. Note how the parameter is specified in square brackets!</i>  <code>\SBIntro[Y]{\Ch{D}{-} \Ch{C}{-} Ooooh}</code>  <i>In this case the ending is a no-op in words-only mode.</i>  <code>\SBIntro{\SBLyricNoteFont Guitar and drums}</code>
<code>\SBMargNote</code>	<code>\SBMargNote{&lt;marginal note&gt;}</code> is used to place a note of some kind in the margin of a songbook. In words-only mode this macro is a no-op.

<code>\SBRef</code>	<code>\SBRef{⟨book title⟩}{⟨page or song number⟩}</code> creates a reference in the margin to another music book, or tape. This provides a method for directing people to resources they may use to learn the song. The marginal reference only prints when <code>\WordsOnly</code> is <code>\False</code> .
<code>\SBem</code>	<code>\SBem</code> prints an <i>em-dash</i> (i.e., “—”) when <code>\WordsOnly</code> is <code>\False</code> . See <code>\SBen</code> .
<code>\SBen</code>	<code>\SBen</code> prints an <i>en-dash</i> (i.e., “-”) when <code>\WordsOnly</code> is <code>\False</code> . This allows us to place a short rule within text in order place a chord earlier than a syllable; yet, that rule will not appear in the words-only book. The words-only version of this macro is a no-op. An example of its intended use is:  <pre>...flows like a ri\Ch{B/A}{\SBen ver,} flows...</pre>
<code>\STitle</code>	<code>\STitle{⟨song title⟩}{⟨key⟩}</code> prints the <i>⟨song title⟩</i> , preceded by the current <code>\SBSongCnt</code> value and followed by the <i>⟨key⟩</i> the song is given in. <code>\STitle</code> is most often used along with the <code>SBExtraKeys</code> environment. This command resets the <code>\SBVerseCnt</code> and <code>\SBSectionCnt</code> counters.
<code>\WBPageBrk</code>	<code>\WBPageBrk</code> forces a new page if <code>\ifWordBk</code> is true.
<code>\WOPageBrk</code>	<code>\WOPageBrk</code> forces a new page if <code>\ifWordsOnly</code> is true.

## 2.3 Miscellaneous Commands

Not all of the commands listed here are commonly used in songbooks written using one of the Songbook styles. The commands are listed alphabetically.

<code>\CpyRt</code>	<code>\CpyRt{⟨copyright info.⟩}</code> prints the copyright information line. This command is not usually explicitly used in a songbook. It is called by the <code>song</code> environment and will normally only be used there.
<code>\FLineIdx</code>	<code>\FLineIdx{⟨first line⟩}</code> make an entry in the <i>Title &amp; First Line Index</i> file, “ <i>jobname.tIdx</i> .”
<code>\SBChorusMarkright</code>	<code>\SBChorusMarkright</code> hook to allow <code>\SBSection</code> ’s <code>\markright</code> to be overridden.
<code>\SBContinueMark</code>	<code>\SBContinueMark</code> conditionally produce a continuation symbol. If the contents of <code>\rightmark</code> will result in nothing being typeset, then don’t output the continuation mark; otherwise, output a continuation mark using the <code>\SBContinueTag</code> command.
<code>\SBSectionMarkright</code>	<code>\SBSectionMarkright</code> hook to allow <code>\SBSection</code> ’s <code>\markright</code> to be overridden.
<code>\SBVerseMarkright</code>	<code>\SBVerseMarkright</code> hook to allow <code>\SBVerse</code> ’s <code>\markright</code> to be overridden.
<code>\SongMarkboth</code>	<code>\SongMarkboth</code> hook to allow the song environment’s <code>\markboth</code> to be overridden.
<code>\STitleMarkboth</code>	<code>\STitleMarkboth</code> hook to allow <code>\STitle</code> ’s <code>\markboth</code> to be overridden.
<code>\ScriptRef</code>	<code>\ScriptRef{⟨scripture address⟩}</code> is a scripture reference for the song. This command has its name because the Songbook style was written to produce songbooks for the church I am part of. This command is not usually explicitly used in a songbook. It is called by the <code>song</code> environment and will normally only be used there.
<code>\WAndM</code>	<code>\WAndM{⟨lyricist &amp; composer⟩}</code> prints a line telling who wrote the words and music for this song. The string “W&M:” precedes the listing of the <i>⟨lyricist &amp; composer⟩</i> when it is printed. This command is not usually explicitly used in a songbook. It is called by the <code>song</code> environment and will normally only be used there.

## 2.4 Ifthen Commands

These `\if` tests are used to perform formatting that is dependent upon the type of songbook you are creating. It is these `\if` tests which allow a single source file to output the three songbook styles.

<code>\ifSBinSongEnv</code>	<code>\ifSBinSongEnv</code> is true if we are inside of a song environment.
<code>\ifChordBk</code>	<code>\ifChordBk</code> is true if we are processing a <code>chordbk</code> document.
<code>\ifOverhead</code>	<code>\ifOverhead</code> is true if we are processing an <code>overhead</code> document.
<code>\ifWordBk</code>	<code>\ifWordBk</code> are we processing a <code>wordbk</code> document?
<code>\ifWordsOnly</code>	<code>\ifWordsOnly</code> is true when we are typesetting a words-only document (i.e., no chords).
<code>\ifNotWordsOnly</code>	<code>\ifNotWordsOnly</code> is true if we are processing a document that displays chords.
<code>\ifCompactSongMode</code>	<code>\ifCompactSongMode</code> is set to true if you want songs presented in a compact mode? It is initially set to false. Set this to true or false using the <code>\CompactSongModetrue</code> and <code>\CompactSongModefalse</code> commands, respectively.
<code>\ifSongEject</code>	<code>\ifSongEject</code> is set to true if we want a new page generated at the end of every <code>song</code> environment? A value of true means eject after every <code>song</code> environment (default value is true).

Papersize tests have been provided in order to detect if a particular papersize has been specified. These are only documented in the *Detailed Documentation* section, below, since they are not generally needed.

## 2.5 Counters

These are the counters used in the various environments. Although you will generally not need to use them, they do sometimes come in handy; hence, they have been documented here.

<code>\theSBSongCnt</code>	<code>\theSBSongCnt</code> counter is used for numbering the songs. When a song is listed multiple times (for multiple keys) the songs number must remain the same each time.
<code>\theSBSectionCnt</code>	<code>\theSBSectionCnt</code> the section counter is used for numbering sections as they occur within a song.
<code>\theSBVerseCnt</code>	<code>\theSBVerseCnt</code> the verse counter is used for numbering verses as they occur within a song.

## 2.6 Spacing Commands

These commands define the amount of space to leave in various situations. Change their values via  $\LaTeX$ 's `\renewcommand` command.

All of these spaces are defined as  $\LaTeX$  commands to overcome limitations in  $\LaTeX$  length evaluation. For example, if `\LeftMarginSBVerse` were to be defined as a length (i.e., using `\newlength`) and then immediately set to `4em`'s, the specific length would be evaluated with respect to the current font. This may not be what is desired; instead a length evaluated with respect to the font in place at the start of an `SBVerse` is probably what is desired. This can only be done by making these lengths  $\LaTeX$  commands instead of lengths.

<code>\HangAmt</code>	<code>\HangAmt</code> amount to indent when a line wraps.
-----------------------	---

<code>\LeftMarginSBBracket</code>	<code>\LeftMarginSBBracket</code> is the amount of left margin to leave when the <code>\SBBracket</code> environment is in effect.
<code>\LeftMarginSBChorus</code>	<code>\LeftMarginSBChorus</code> is the amount of left margin to leave when the <code>\SBChorus</code> environment is in effect.
<code>\LeftMarginSBSection</code>	<code>\LeftMarginSBSection</code> is the amount of left margin to leave when the <code>\SBSection</code> environment is in effect.
<code>\LeftMarginSBVerse</code>	<code>\LeftMarginSBVerse</code> is the amount of left margin to leave when the <code>\SBVerse</code> environment is in effect.
<code>\SBChordRaise</code>	<code>\SBChordRaise</code> the distance to raise the chords above the baseline of the text they sit over.
<code>\SBRuleRaiseAmount</code>	<code>\SBRuleRaiseAmount</code> the distance to raise the rule (as specified by <code>\SBIntersyllableRule</code> ) which fills the space between adjoining syllables.
<code>\SpaceAboveSTitle</code>	<code>\SpaceAboveSTitle</code> is the amount of vertical space left by the <code>STitle</code> command before it prints the song title line.
<code>\SpaceAfterTitleBlk</code>	<code>\SpaceAfterTitleBlk</code> is the space inserted by the song environment between the <i>title block</i> and the versicles.
<code>\SpaceAfterChorus</code>	<code>\SpaceAfterChorus</code> is the vertical space to leave after an <code>SBChorus</code> .
<code>\SpaceAfterOpGroup</code>	<code>\SpaceAfterOpGroup</code> is the vertical space to leave after an <code>SBOpGroup</code> .
<code>\SpaceAfterSection</code>	<code>\SpaceAfterSection</code> is the vertical space to leave after an <code>SBSection</code> .
<code>\SpaceAfterSBBracket</code>	<code>\SpaceAfterSBBracket</code> is the vertical space to leave after an <code>SBBracket</code> .
<code>\SpaceAfterSong</code>	<code>\SpaceAfterSong</code> is the vertical space to leave after a <code>song</code> .
<code>\SpaceAfterVerse</code>	<code>\SpaceAfterVerse</code> is the vertical space to leave after an <code>SBVerse</code> .
<code>\SpaceBeforeSBBracket</code>	<code>\SpaceBeforeSBBracket</code> is the vertical space to leave before an <code>SBBracket</code> .

It is worth noting that the `\SpaceAfterChorus`, `\SpaceAfterOpGroup`, `\SpaceAfterSection`, and `\SpaceAfterSong`, `\SpaceAfterVerse` macros all allow negative glue to be inserted; that is, the space may be shrunk as well as expanded. If this proves problematic (due to sections being visibly pushed into each other, the old spacing (as in versions 1.x and 2.x) can be restored by resetting these macros to 0ex. For example:

```

\renewcommand{\SpaceAfterChorus} {\vspace{0ex}}
\renewcommand{\SpaceAfterOpGroup}{\vspace{0ex}}
\renewcommand{\SpaceAfterSection}{\vspace{0ex}}
\renewcommand{\SpaceAfterSong}   {\vspace{0ex}}
\renewcommand{\SpaceAfterVerse}  {\vspace{0ex}}

```

## 2.7 String Constants

These constants are provided so that users may easily customize the appearance of formatted songs and songbooks. Use the `\renewcommand` command to change the value of these constants.

<code>\OHContPgFtrTag</code>	<code>\OHContPgFtrTag</code> tag is inserted by the <code>\OHContPgFtr</code> command. The default value for this is “continued on next page\ldots”.
<code>\OHContPgHdrTag</code>	<code>\OHContPgHdrTag</code> tag is inserted by the <code>\OHContPgHdr</code> command. The default value for this is “\theSBSongCnt\ --- \theSongTitle, continued\ldots”.

<code>\SBBaseLang</code>	<code>\SBBaseLang</code> tag is the name of the language of all songs not specified within an <code>songTranslation</code> environment, and also as the default value of the <code>songTranslation</code> environment's optional song language parameter. The default value for this is "English".
<code>\SBBridgeTag</code>	<code>\SBBridgeTag</code> the Bridge Tag to insert before the start of a bridge. The default value for this is "Bridge:".
<code>\SBChorusTag</code>	<code>\SBChorusTag</code> the Chorus Tag to insert before the first line of a chorus. The default value for this is "Ch:".
<code>\SBContinueTag</code>	<code>\SBContinueTag</code> the Continue Tag to insert in an <code>\SBContinueMark</code> . The default value for this is "cont\ldots".
<code>\SBEndTag</code>	<code>\SBEndTag</code> the End Tag to insert before the start of an ending (in an <code>\SBEnd</code> command). The default value for this is "End:".
<code>\SBIntersyllableRule</code>	<code>\SBIntersyllableRule</code> the command(s) to draw the rule between adjoining syllables.
<code>\SBIntroTag</code>	<code>\SBIntroTag</code> the Intro Tag to insert before the start of an introduction (in an <code>\SBIntro</code> command). The default value for this is "Intro:".
<code>\SBPubDom</code>	<code>\SBPubDom</code> the string to insert which indicates song is in the public domain. The default value for this is "Public Domain". If you want to localize this string in the song title block, be sure to use this public interface: the <code>\CpyRt</code> macro uses <code>\SBPubDom</code> to determine whether or not to print the copyright symbol (©).
<code>\SBUnknownTag</code>	<code>\SBUnknownTag</code> the WAndM string to insert when either the author/artist or the copyright holder is unknown. The default value for this is "Unknown".
<code>\SBWAndMTag</code>	<code>\SBWAndMTag</code> the tag to insert before the words and music entry printed in the song header. The default value for this is "W&M:".

## 2.8 Font Handling

Of all the font selection Songbook macros, only one is commonly used by someone writing a songbook: `\SBLyricNoteFont`. All the other font macros are only used by an author to over-ride default behaviour, via the `\renewcommand` command.

<code>\ChBassFont</code>	<code>\ChBassFont</code> sets the font for the bass note in chords as printed by the <code>\Ch</code> , <code>\Chr</code> and <code>\ChX</code> commands.
<code>\ChBkFont</code>	<code>\ChBkFont</code> sets the font for square brackets typeset inside <code>\Ch</code> commands (and its variants).
<code>\ChFont</code>	<code>\ChFont</code> sets the font for chords as printed by the <code>\Ch</code> , <code>\Chr</code> , and <code>\ChX</code> commands.
<code>\CpyRtFont</code>	<code>\CpyRtFont</code> sets the font used to print the copyright line produced by the <code>\CpyRt</code> command.
<code>\CpyRtInfoFont</code>	<code>\CpyRtInfoFont</code> sets the font used to print the <i>copyright licensing information</i> parameter of the <code>song</code> environment; which appears after the <i>copyright information</i> parameter under the <i>song title</i> .
<code>\SBBracketTagFont</code>	<code>\SBBracketTagFont</code> sets the font used to create the tag for an <code>SBBacket</code> environment.
<code>\SBBridgeTagFont</code>	<code>\SBBridgeTagFont</code> sets the font used to create the tag for an <code>SBBridge</code> environment.
<code>\SBChorusTagFont</code>	<code>\SBChorusTagFont</code> sets the font used to print the chorus tag, <code>\SBChorusTag</code> .

<code>\SBDefaultFont</code>	<code>\SBDefaultFont</code> sets the default font for the songbook. As of version 4.0 there is no need for you to specify this command yourself.
<code>\SBEndTagFont</code>	<code>\SBEndTagFont</code> sets the font used to print the tag, <code>\SBEndTag</code> , for the <code>\SBEnd</code> command.
<code>\SBIntroTagFont</code>	<code>\SBIntroTagFont</code> sets the font used to print the introduction tag, <code>\SBIntroTag</code> .
<code>\SBLyricNoteFont</code>	<code>\SBLyricNoteFont</code> sets the font used in comments placed within the lyrics giving musical direction. This is the only font command commonly used by the writer of a songbook.
<code>\SBMargNoteFont</code>	<code>\SBMargNoteFont</code> sets the font used in the marginal reference printed by the <code>\SBMargNote</code> command.
<code>\SBOccursBrktFont</code>	<code>\SBOccursBrktFont</code> sets the font used to create the large left and right square brackets which delimit an <code>SBOccurs</code> environment.
<code>\SBOccursTagFont</code>	<code>\SBOccursTagFont</code> sets the font used to create the <code>\SBOccurs</code> tag.
<code>\SBRefFont</code>	<code>\SBRefFont</code> sets the font used in the marginal reference printed by the <code>\SBRef</code> command.
<code>\SBVerseNumberFont</code>	<code>\SBVerseNumberFont</code> sets the font used to print the <code>\SBVerseCnt</code> in front of verses in an <code>SBVerse</code> environment.
<code>\SBSectionNumberFont</code>	<code>\SBSectionNumberFont</code> sets the font used to print the <code>\SBSectionCnt</code> in front of sections in an <code>SBSection</code> environment.
<code>\STitleFont</code>	<code>\STitleFont</code> sets the font used to print the song title, as generated by the <code>\STitle</code> command.
<code>\STitleKeyFont</code>	<code>\STitleKeyFont</code> sets the font used to print the key a song is written in, as generated by the <code>\STitle</code> command.
<code>\STitleNumberFont</code>	<code>\STitleNumberFont</code> sets the font used to print the <code>\SBSongCnt</code> in front of the song title, as generated by the <code>\STitle</code> command.
<code>\ScriptRefFont</code>	<code>\ScriptRefFont</code> sets the font used to print the scripture reference generated by the <code>\ScriptRef</code> command.
<code>\WandMFont</code>	<code>\WandMFont</code> sets the font used to print the lyricist and composer line generated by the <code>\WandM</code> command.

## 2.9 Deprecated Commands

The following commands will be discontinued in some future release of the Songbook style:

`\ChordBk` is set to `\True` if we're producing words and chord books. Set to `\False`, otherwise. Superseded by the `\ifChordBk` if.

`\False` is a constant used in  $\TeX$  `\if` expressions. This command is now unnecessary.

`\Overhead` is set to `\True` if we're producing overhead transparencies. Set to `\False`, otherwise. Superseded by the `\ifOverhead` if.

`\SongEject` is a flag indicating whether or not the `\song` environment should end the current page when the environment ends: `\True` means end the page when the `\song` environment ends; `\False` means don't end the page. Superseded by the `\ifSongEject` if.

`\True` is a constant used in  $\TeX$  `\if` expressions. This command is now unnecessary.

`\WordBk` is the flag which tells us whether we're producing a songbook with just words that is not a set of overhead masters. Superseded by the `\ifWordBk` if.

`\WordsOnly` is the flag which tells us whether we're producing a songbook with just words, or set of overhead masters. Superseded by the `\ifWordsOnly` if.

### 3 Usage Guidelines

This section gives some guidelines for use of the commands and environments offered by the Songbook style. These are not absolute standards, merely the suggestions that I have come up with after entering some 450 songs into a Songbook style based songbook. These guidelines rarely justify themselves, try things out and decide for yourself whether they're right or wrong.

1. Make each line of a song its own paragraph. This means that the songbook file is mostly double spaced. This allows the file to more easily survive encounters with users who edit the songbook source using a non-text-editor, such as WordPerfect.

2. Use of the `\Ch` command:

- Always try to attach a chord to a single syllable. If you need to include more than one syllable with the chord then include extra text in units of syllables (whenever possible). For example:

**Do:** `\Ch{G}{Halle}luia`

**Don't:** `\Ch{G}{Hall}elua`

- Always include punctuation along with a syllable that has been included in a `\Ch` command. For example:

**Do:** `\Ch{G}{Lord!}`

**Don't:** `\Ch{G}{Lord}!`

- Only place a single chord within a `\Ch` command. For example:

**Do:** `\Ch{[]}\Ch{G}{[]}\Ch{D}{[]}\Ch{[]}{[]}`

**Don't:** `\Ch{[G D]}{[]}`

3. Extension of syllables. Syllables may be extended at either/or both ends. Each end should be done in a different way:

- (a) One usually needs to make a syllable longer because the chord it is tied to is too long. This type of extension should be done using the `\Chr` command.

**Do:** `\Chr{G\#m7/C}{Ho}\Ch{C}{ly}`

**Don't:** `\Ch{G\#m7/C}{Ho\SBem}\Ch{C}{ly}`

- (b) Extending the beginning (i.e., delaying the start) of a syllable is generally required because the chord change needs to occur *between syllables*. For example, when the chord change is on the beat and the syllable is sung off-beat. Use `\SBen` and `\SBem` for this purpose.

**Do:** `none Ho\Ch{D}{\SBen ly}`

4. Typographic conventions.  $\LaTeX$  knows about certain ligatures; that is, it groups certain sequences of letters into a single character unit. `ff` is one of these ligatures and is typeset in a special way; however this cannot occur if the f's are split by a `\Ch` command. Therefore, if at all possible, never split up the following character sequences with the `\Ch` command: `ff`, `fi`, `ffi`, `fl`, `ffl`.



**Do:** `\Ch{C}{diffi}cult`

**Don't:** `\Ch{C}{dif}ficult`

5. Ordering of songs in the songbook. In order to allow L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε to fill pages in as natural a manner as possible, it is best to order the songs within the songbook based upon a `wordbk` formatted songbook. In that way, the words-only songbooks will contain optimally filled columns. Start by placing the longest songs first, only inserting shorter songs to cause page breaks at logical intervals.
6. Overheads that occupy more than one page. When in overhead mode, if a song spills over onto a second page (or beyond), it is helpful to print an extra header at the top of the page identifying which song the extra page belongs to. This is accomplished with the `\OHContPgHdr` macro. For example, one would insert the following lines where the new page is to occur:

```
\OHContPgFtr
\OHPageBrk
\OHContPgHdr
```

## 4 Index/TOC Generation

The Songbook style provides facilities for title/first line index, song key index and table of contents generation. While this facility is not yet completely developed, it is much better than it was in early Songbook releases, and it produces *very* usable output!

### 4.1 Table of Contents Generation

Steps to follow in order to produce a table of contents:

1. Add a `\makeTitleContents` command to the preamble of your songbook.
2. Run L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε on the songbook source.
3. Make your own copy of `sampleToc.tex` and customize its header and footer definitions (so they match your songbook's). Then change the name of the file being `\inputed` to match your table of contents file.
4. Run L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε on your copy of `sampleToc.tex`.

### 4.2 Title & First Line Index Generation

Steps to follow in order to produce a title and first line index:

1. Add a `\makeTitleIndex` command to the preamble of your songbook.
2. Run L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε on the songbook source.
3. Run the `./mksbtdx` shell script on the `.tIdx` file that was produced by the previous step. Do this by typing "`mksbtdx jobname`" at a UNIX command line. For example, the index file for `sample-sb.tex` was produced by typing "`mksbtdx sample-sb`".
4. Make your own copy of `sampleTdx.tex` and customize its header and footer definitions (so they match your songbook's). Then change the name of the file being `\inputed` to match your index file. (`./mksbtdx` told you this file's name).
5. Run L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε on your copy of `sampleTdx.tex`.

### 4.3 Song Key Index Generation

Steps to follow in order to produce a song key index:

1. Add a `\makeKeyIndex` command to the preamble of your songbook.
2. Run `LATEX2e` on the songbook source.
3. Run the `./mksbkdx` shell script on the `.kIdx` file that was produced by the previous step. Do this by typing “`mksbkdx jobname`” at a UNIX command line. For example, the key index file for `sample-sb.tex` was produced by typing “`mksbkdx sample-sb`”.
4. Make your own copy of `sampleKdx.tex` and customize its header and footer definitions (so they match your songbook’s). Then change the name of the file being `\inputed` to match your index file. (`./mksbkdx` told you this file’s name).
5. Run `LATEX2e` on your copy of `sampleKdx.tex`.

### 4.4 Song Artist Index Generation

To produce an index by song artist (composer) follow the same steps as for song key index generation, above, with the following exceptions:

- use `\makeArtistIndex` instead of `\makeKeyIndex`.
- use `./mksbadx` instead of `./mksbkdx`.
- use `sampleAdx.tex` instead of `sampleKdx.tex`.

## 5 Example

Here is an example songbook; where the the songbook contains exactly one song.

```
\documentstyle[12pt]{book}
\usepackage[chordbk]{songbook}           %% Words & Chords edition.

%%
% C.C.L.I. license number definition; for copyright licensing info.
%%
\newcommand{\CCLInumber}{\#999999}
\newcommand{\CCLied}{(CCLI \CCLInumber)}
\newcommand{\NotCCLied}{}
\newcommand{\PGranted}{}
\newcommand{\PPending}{(Permission Pending)}

%%
% Turn on index and table of contents.
%%
\makeTitleIndex           %% Title and First Line Index.
\makeTitleContents       %% Table of Contents.
\makeKeyIndex            %% Song Key Index.
\makeArtistIndex         %% Index by Artist.

\begin{document}
%%
% Songbook begins.
%%
\begin{song}{What A Mighty God We Serve}{C}
  {\SBPubDom}
  {\SBUnknownTag}
  {Isaiah 9:6}
  {\NotCCLied}

  \renewcommand{\RevDate}{February~11,~1993}
```

\SRef{Give Thanks}{Hosanna! Music Tape HM-7}  
\SRef{Hosanna! Music Book~I}{\#93}

```
\begin{SBOPGroup}
  \Ch{C}{What} a mighty God we serve,

  What a mighty God we \Ch{G7}{serve},

  \Ch{C}{An}gels bow before Him,

  \Ch{C}{Hea}ven and earth adore Him,

  \Ch{C}{What} a mighty \Ch{G7}{God} we \Ch{C}{serve!}\Ch{[]}{\Ch{F}{}}
  \Ch{C}{}\Ch{[]}{}
\end{SBOPGroup}
```

```
\begin{SBVerse}
  O \Ch{C}{Zion}, O \Ch{F}{Zion}, that \Ch{G7}{bring}est good \Ch{C}{tid}ings,

  Get thee \Ch{F}{up} into the \Ch{G7}{High} Moun\Ch{C}{tains}

  Je\Ch{C}{ru}saleam, Je\Ch{F}{ru}saleam, that \Ch{G7}{bring}est good \Ch{C}{tid}ings

  Lift up thy \Ch{F}{voice} with \Ch{G7}{all} thy \Ch{C}{strength}

  Lift it \Ch{F}{up}, be not afraid;

  Lift it \Ch{C}{up}, be not afraid

  Say \Ch{Am}{unto} the \Ch{C}{ci}ties of \Ch{G7}{Judah},

  ‘Behold your \Ch{C}{God},\Ch{C7}{} Behold your \Ch{F}{God},

  Be\Ch{C}{hold} \Ch{G7}{your} \Ch{C}{God!’’
\end{SBVerse}
```

\CBPageBrk

```
\begin{SBExtraKeys}{%
  \STitle{What A Mighty God We Serve}{D}

  \begin{SBOPGroup}
    \Ch{D}{What} a mighty God we serve,

    What a mighty God we \Ch{A7}{serve},

    \Ch{D}{An}gels bow before Him,

    \Ch{D}{Hea}ven and earth adore Him,

    \Ch{D}{What} a mighty \Ch{A7}{God} we \Ch{D}{serve!}\Ch{[]}{\Ch{G}{}}
    \Ch{D}{}\Ch{[]}{}
  \end{SBOPGroup}

  \begin{SBVerse}
    O \Ch{D}{Zion}, O \Ch{G}{Zion}, that \Ch{A7}{bring}est good \Ch{D}{tid}ings,

    Get thee \Ch{G}{up} to into the \Ch{A7}{High} Moun\Ch{D}{tains}

    Je\Ch{D}{ru}saleam, Je\Ch{G}{ru}saleam, that \Ch{A7}{bring}est good
    \Ch{D}{tid}ings

    Lift up thy \Ch{G}{voice} with \Ch{A7}{all} thy \Ch{D}{strength}

    Lift it \Ch{G}{up} be not afraid,

    Lift it \Ch{D}{up} be not afraid

    Say \Ch{Bm}{unto} the \Ch{D}{ci}ties of \Ch{A7}{Judah},

    ‘Behold your \Ch{D}{God},\Ch{D7}{} Behold your \Ch{G}{God},
```

```

        Be\Ch{D}{hold} \Ch{A7}{your} \Ch{D}{God!''}
    \end{SBVerse}
} \end{SBExtraKeys}
\end{song}
\end{document}
\bye

```

## 6 Dependencies

The Songbook style is dependent upon four other L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε styles: `conditionals.sty`, `calc.sty`, `ifthen.sty`, and `multicol.sty`. `Conditionals.sty` is supplied with this package. `Calc.sty`, `ifthen.sty`, and `multicol.sty` are part of the L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε distribution.

Embedding guitar chord fingering charts within a songbook can be accomplished with the `texchord.sty` package; which is supplied in the contrib directory of the Songbook distribution.

## 7 Files

**conditionals.sty** Donald Arseneau's conditional tests; included with Donald's kind permission.

**mksbadx** A shell script around makeindex to sort the song artist index.

**mksbkdx** A shell script around makeindex to sort the song key index.

**mksbtdx** A shell script around makeindex to sort the title & first line index.

**relnotes.txt** The Songbook package release notes.

**sample-sb.tex** A sample songbook.

**sampleAdx.tex** Song artist index for the sample songbook.

**sampleKdx.tex** Song key index for the sample songbook.

**sampleTdx.tex** Title & first line index for the sample songbook.

**sampleToc.tex** TOC for the sample songbook.

**songbook.ist** The Songbook package makeindex .ist file.

**songbook.dtx** The base style file.

**songbook.inx** The install script used to create `songbook.sty`.

## 8 See Also

Some resources you will find helpful when coding songbooks:

- *L<sup>A</sup>T<sub>E</sub>X A Document Preparation System*, by Leslie Lamport
- *The L<sup>A</sup>T<sub>E</sub>X Companion*, by Goossens, Mittlebach, & Samarin
- The Songbook homepage, at URL <http://rath.ca/Misc/Songbook/>
- *The T<sub>E</sub>X book*, by Donald Knuth

## 8.1 Contributed Resources

A couple of Songbook users have created additional resources intended to be used with the Songbook style. If you have written anything which you would like to contribute to Songbook style's distribution, please let me know.

**CarolBook** a Songbook formatted book containing words for all the Christmas songs I've been able to find where the words are now in the public domain. PDF versions of the file are included for quick and easy use.

**crd2sb** a perl script which converts Chord files into Songbook files. Contributed by Abel Chow <[abel@g2networks.com](mailto:abel@g2networks.com)>. Note that a postscript formatter for Chord songs can be ftp'ed from:  
<ftp://ftp.uu.net/doc/music/guitar/resources/misc/CHORD/>.

**modulate** a perl script for modulating a song from one key to another. Contributed by Christopher Rath <[christopher@rath.ca](mailto:christopher@rath.ca)>.

**LyX Integration** files for use of the Songbookstyle with LyX. Christian Ridderström <[chr@md.kth.se](mailto:chr@md.kth.se)> has put together the necessary files to allow Songbooks to be edited using LyX. While these files are not distributed in the Songbook's `contrib` files, they are available from  
<http://www.md.kth.se/~chr/lyx/songbook/Songbook.shtml>.

**texchord.sty**  $\LaTeX$  macros for printing guitar fingering charts. Contributed by Joel M. Hoffman <[joel@wam.umd.edu](mailto:joel@wam.umd.edu)>. Note, this style is *no longer* actively supported by Joel.

## 8.2 Other Similar Packages

There are a number of song and songbook formatting packages available which attempt to provide similar functionality to the Songbook package (although, IMHO, my package is better). Similar  $\LaTeX$ 2 $\epsilon$  packages (of which the author is aware) include:

**chord.sty** a song formatting package based on  $\LaTeX$ 's article style; written by Olivier Biot (<http://www.biot.yucom.be/>).

**Chordpack** a utility for typesetting *chordpro* chord files in TeX; written by Daniel Polansky (<http://www.fi.muni.cz/~xpolansk/home.html>) and available at <http://www.fi.muni.cz/~xpolansk/chordpack>.

**gchords.sty** a TeX packages for typesetting guitar chord diagrams; written by Kasper Peeters (<http://www.damtp.cam.ac.uk/user/kp229/>) and available at <http://www.damtp.cam.ac.uk/user/kp229/gchords/>.

**Guitar.sty**  $\LaTeX$  macros for typesetting guitar chords over song texts; written by Martin Vth (<http://www.mathematik.uni-wuerzburg.de/~vaeth/>) and available from  
<http://www.mathematik.uni-wuerzburg.de/~vaeth/download/>.

**GuitarTeX** a graphical tool for editing *chordpro* chord files and printing them in TeX; written by Joachim Miltz and available from  
<http://www.rz-home.de/~jmiltz/guitartex/>.

**song.sty** a song formatting package based on  $\LaTeX$ 's book style; written by Jens T. Berger Thielemann (<http://www.stud.ifi.uio.no/~jensthi/>).

## 9 Bugs

In the specific case where a `\Ch`, `\Chr`, or `\ChX` macro begins a paragraph that isn't inside one of Songbook's versicle environments, that line may not indent properly in the `chordbk` substyle (specifically, a long, wrapped line won't have its extra indentation). I have been unable to identify the reason for the problem, although it is easily reproducible. The best way to avoid this problem is through use of the `\SBOpGroup` environment. If that isn't possible, the problem may often be overcome by starting such lines with an `\mbox{}` command; this inserts an empty (i.e., zero width) `mbox` at the start of the line. For example:

```
\mbox{}\Ch{G}{Great} is the Lord \Ch{A}{even} beyond the
\Ch{D}{borders} of I\Chr{F#m}{srae}\Ch{Bm7}{1;}
```

The `\emph` macro is not completely compatible with `\Ch` and its friends. The specific problem is that sharps can not be specified via `'#'` within an `\emph` macro. The following snippet,

```
\emph{for the \Ch{G/A}{King} of \Ch{F#}{kings.}}
```

will fail with the L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε message,

```
! Illegal parameter number in definition of \reserved@a.
<to be read again>
```

The error message can be suppressed by replacing `'#'` with `'##'`, however this results in a double-sharp being typeset. The problem can be worked-around by replacing the snippet with:

```
\emph{for the \Ch{G/A}{King} of} \Ch{F#}{\emph{kings.}}
```

## 10 Special Thanks

Thanks to Donald Arseneau for writing the `conditionals.sty` file, and for helping write the `\Chord` macro. Donald, you are one of the faithful who is always quick to reply with correct answers to questions posted to `comp.text.tex`. Thanks again.

Thanks also to Philip Hirschhorn whose `\Chord` macro I ultimately used in versions 1.0–2.3 of the Songbook style, and to Olivier Boit who constructed a similar chord macro which I used to enhance Philip's code for version 3.0

A quick thank you to Herbert Martin Dietze <[herbert@fh-wedel.de](mailto:herbert@fh-wedel.de)> for noting that `SBVerse*` and its cousins were missing from the `.sty` file, and then coding up an acceptable `SBVerse*` which I could quickly use as a model for the other two missing environments.

For version 4.1, I am grateful to Mark Wooding for suggesting the method I ultimately used for implementing the `song` environment's `\Include?` option (although I did not use his preferred method).

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## 12 .dtx Documentation Driver

There is one last administrative detail to take care of before beginning the detailed review: the insertion of the documentation driver (i.e., the code that builds the documentation .dvi file.

```
1 <*driver>
2 \documentclass{ltxdoc} \RequirePackage{calc} \EnableCrossrefs
3 \CodelineIndex
4 \RecordChanges           % Gather update information
5 %\OnlyDescription % comment out for implementation details
6 %\OldMakeindex % use if your MakeIndex is pre-v2.9
7 \setlength\hfuzz{15pt} % dont make so many
8 \hbadness=7000 % over and under full box warnings
9 \def\MacroFont{\fontencoding\encodingdefault
10 \fontfamily\ttdefault
11 \fontseries\mddefault
12 \fontshape\updefault
13 \footnotesize}%
14
15 \voffset=-1.00in
16 \topmargin=0.5in
17 \headheight=0.0in
18 \headsep=0.20in
19 \textheight=9.4in
20 \footskip=0.4in
21
22 \newenvironment{ParameterList}
23   {\par\hspace 1.5em Parameters:\begin{list}{}}
24   {\setlength{\topsep}{0pt}
25   \setlength{\parsep}{0pt}
26   \setlength{\itemsep}{0pt}
27   \setlength{\leftmargin}{\leftmargin + 1.5em}
28   \setlength{\parsep}{0pt}
29   }
30 }
31 {\end{list}\vskip 0.5ex
32 }
33 \newcommand{\parm}[1]{\texttt{[]\meta{#1}\texttt{[]}}
34 \begin{document}
35   \setcounter{IndexColumns}{1}
36   \DocInput{songbook.dtx}
37 \end{document}
38 </driver>
```

## Part II

# Detailed Documentation

This section contains style implementation details along with the detailed descriptions and documentation for the `Songbook` commands and environments. It is strongly recommended that these detailed descriptions be reviewed at least once as part of becoming familiar with the `Songbook` style.

This coding style has been structured in a top down fashion which assume that macros and environments must be declared before they are first used. `TeX` doesn't require this to be so, but since I've been coding software this way for 20+ years, it's easier for me to also maintain this structure here too.

## 13 Identification Part

The first section in `songbook.sty` is what `LATeX2e` calls the *Implementation Part*. This is where `Songbook` identifies itself to the outside world. As part of this section an RCS "Id:" variable has been included as a `TeX` comment; the intent is that this may assist with reporting problems later.

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3 %%
4 %%          I D E N T I F I C A T I O N   P A R T          %%
5 %%
6 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
7 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
8 %%
9 %% rcsid = @(#)$Id: songbook.dtx,v 1.13 2007/02/04 04:12:40 rathc Exp $
10 %%
11 \NeedsTeXFormat{LaTeX2e}
12 \ProvidesPackage{songbook}[2007/02/03 v4.3 All purpose Songbook style]
13 \typeout{Document Subclass: songbook 2007/02/03 v4.3 All purpose Songbook style}
```

## 14 Initial Code Part

The next section is called the *Initial Code Part*. This is where any dependencies in the early sections of `songbook.sty` has are contained. In the case of the `Songbook` style we must declare our dependence on `calc.sty` here because some of `Songbook`'s declarative sections themselves contain calculations. In this section we also declare the `\if` constructs used in the package.

```
14 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
15 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
16 %%
17 %%          I N I T I A L   C O D E   P A R T          %%
18 %%
19 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
20 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
21
22 %=====
23 %% E A R L Y   P A C K A G E   D E P E N D E N C I E S   %
24 %=====
```

Page layout calculations have become overly complex and so as of version 4.0 we now require `calc.sty` to make them readable once again. In every instance we could probably find a way to get along without `calc.sty`; however, since the package is a part of the `LATeX2e` Base there is no logical reason to avoid its use.

```
25 \RequirePackage{calc}
26
```



## 14.1 If Constructs

Most of these `\if` constructs are needed for use in the *Declaration Of Options* section of `songbook.sty`. In each case, we create the if statement (a.k.a. the flag) and then immediately set it to a known value. Where there are several flags which act as sort of radio buttons, all of the flags are set so that none of them is selected; which has been done so that if we forget to deal with them properly in the *Declaration Of Options* code it will eventually manifest itself as an error.

Since the majority of the `\ifs` have to be declared in this section, we will go ahead and declare the remaining `\ifs` as well. It's simpler to maintain them when they are all in one place.

```
27 %%=====
28 %%           I F   C O N S T R U C T S           %
29 %%=====
```

### 14.1.1 Songbook Types

At any time, only one of `\ifChordBk`, `\ifOverhead`, or `\ifWordBk` may be true. These `\ifs` correspond directly to the `chordbk`, `overhead`, and `wordbk` options; one of which *must* be used in the `\usepackage{}` statement used to invoke the Songbook style. All three flags are set to `false`, and this fact is use later in order to confirm that the user had specified one of the 3 options in their document.

`\ifChordBk` `\ifChordBk` is true if the user specified the `chordbk` option.

`\ifOverhead` `\ifOverhead` is true if the user specified the `overhead` option.

`\ifWordBk` `\ifWordBk` is true if the user specified the `wordbk` option.

```
30 \newif\ifChordBk      \ChordBkfalse
31 \newif\ifOverhead    \Overheadfalse
32 \newif\ifWordBk      \WordBkfalse
```

### 14.1.2 Songbook Subtypes

A pair of `\ifs` are declared to indicate whether we are only typesetting words on the page (i.e., the flag is false if we are typesetting words *and* chords). We are in words only mode when the user has declared either the `overhead` or `wordbk` options. When these flags are first declared they are set to the same value, false.

`\ifWordsOnly` `\ifWordsOnly` is true if we're in words-only mode.

`\ifNotWordsOnly` `\ifNotWordsOnly` always has a value oposite the of `\ifWordsOnly`. `\ifNotWordsOnly` is false if we are in words-only mode.

```
33 \newif\ifWordsOnly   \WordsOnlyfalse
34 \newif\ifNotWordsOnly \NotWordsOnlyfalse
```

### 14.1.3 Song Indicator

`\ifSBinSongEnv` The `\ifSBinSongEnv` flag is provided to the style or a songbook's author to detect if the current text is inside of a `song` environment. This flag hasn't proven to be useful, but it doesn't hurt anything to leave it around; so, it hasn't been removed—who knows, there may well be a user somewhere making use of it! The `song` environment takes care of setting this flag's status.

```
35 \newif\ifSBinSongEnv \SBinSongEnvfalse
```

#### 14.1.4 Behaviour Flags

There are three flags which can be set in order to effect certain behaviours from the Songbook style. They are not related to one another but have been grouped together since they are they all `\ifs` used to control Songbook behaviour.

`\ifCompactSongMode` `\ifCompactSongMode` is set to true if you want songs presented in a compact mode. It is initially set to false. This flag will *only* be set to true by the user; the style itself does not toggle this flag. Set this to true by specifying the `compactsong` option in the `\usepackage` statement.

`\ifExcludeSong` `\ifExcludeSong` is set to true if you want to have the current song excluded from the songbook. It is initially set to false, and would only be set to true inside a `song` environment, during processing of a song to be excluded. Its value is set to true when you pass a value of “N” as the first (optional) parameter to a `song` environment.

`\ifPrintAllSongs` `\ifPrintAllSongs` is set to true if you want to have Songbook print all a songbook’s songs regardless of what option may have been specified in each song.

`\ifSamepageMode` `\ifSamepageMode` indicates we want the Songbook style to try and keep each song together on the same page. Set this true or false using the `\SamepageModetrue` and `\SamepageModefalse` commands, respectively. Important note: this command has *not* been documented in the *High Level Documentation* section, above; `\ifSamepageMode` is very unreliable. The L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>e page breaking algorithms are not happy when this mode is used. The the `song` environment description, below, for a further explanation.

`\ifSongEject` `\ifSongEject` is set to true if we want a new page generated at the end of every `song` environment. A value of true means eject after every `song` environment (default value is true). Set this true or false using the `\SongEjecttrue` and `\SongEjectfalse` commands, respectively.

```
36 \newif\ifCompactSongMode\CompactSongModefalse
37 \newif\ifExcludeSong \ExcludeSongfalse
38 \newif\ifPrintAllSongs \PrintAllSongsfalse
39 \newif\ifSamepageMode \SamepageModefalse
40 \newif\ifSongEject \SongEjecttrue
```

#### 14.1.5 Papesize Indicators

This next set of flags are needed to track the papersize specified by the user in then processed in the *Declaration Of Options* section. This set of `\ifs` are mutually exclusive and only one of them should be true at any one time. They are all initially set to false; setting of a default value is done via an `\ExecuteOptions{}` clause, below. These flags were created for use by the Songbook style itself, but have been made part of the public interface to simplify page layout coding related to paper handling in a user’s own songbook.

`\ifSBpaperA4` `\ifSBpaperA4` is true if papersize is A4.

`\ifSBpaperA5` `\ifSBpaperA5` is true if papersize is A5.

`\ifSBpaperB5` `\ifSBpaperB5` is true if papersize is B5.

`\ifSBpaperLtr` `\ifSBpaperLtr` is true if papersize is US Letter.

`\ifSBpaperLgl` `\ifSBpaperLgl` is true if papersize is US Legal.

`\ifSBpaperExc` `\ifSBpaperExc` is true if papersize is US Executive Letter.

```
41 \newif\ifSBpaperAfour \SBpaperAfourfalse
42 \newif\ifSBpaperAfive \SBpaperAfivefalse
43 \newif\ifSBpaperBfive \SBpaperBfivefalse
44 \newif\ifSBpaperLtr \SBpaperLtrfalse
45 \newif\ifSBpaperLgl \SBpaperLglfalse
46 \newif\ifSBpaperExc \SBpaperExcfalse
```

## 14.2 Fonts

Fonts are specified up-front in this section in order to simplify the `\DeclareOption{}` clauses that follow (i.e., those clauses need only make changes against these baseline settings). The fonts sizes and selections initially declared herein are those necessary for `chordbk` songbooks.

Fonts are handled by way of  $\LaTeX$ 2e commands defined using the `\newcommand` command. This was done specifically so that traditional  $\LaTeX$ 2e font selection occurs in the context the Songbook font command is used. I may have completely misunderstood how  $\LaTeX$ 2e does its font selection, in which case my implementation choice here is pointless; however, until proven otherwise... here it is.<sup>1</sup> Change these font specifiers via  $\LaTeX$ 2e's `\renewcommand`.

```
47 %%=====
48 %%                F O N T S                %
49 %%=====
```

### 14.2.1 Chord Fonts

These font selectors are used to determine how chords are printed in words and chords songbooks:

```
\ChBassFont \ChBassFont sets the font for the bass note in chords as printed by the \Ch, \Chr,
and \ChX commands.

\ChBkFont \ChBkFont sets the font for square brackets typeset by \Ch, \Chr, and \ChX com-
mands.

\ChFont \ChFont sets the font for chords as printed by the \Ch, \Chr, and \ChX commands.
This used to be set to \bf\sf (i.e., cmss12 at 14.4pt).

50 \newcommand{\ChBassFont}{\normalsize\bf\sf} % = cmss12 at 12.0pt
51 \newcommand{\ChFont}{\large\fontfamily{\sfdefault}%
52 \fontseries{sbc}\fontshape{n}\selectfont} %=cmssbc12 at 14.4pt
53 \newcommand{\ChBkFont}{\ChFont\fontseries{m} %
54 \selectfont} % =cmssm12 at 14.4pt
```

### 14.2.2 Title Block Fonts

These font selectors are used to select the fonts used in the Title Block that occurs that the start of each song:

```
\CpyRtFont \CpyRtFont sets the font used to print the copyright symbol produced by the
\CpyRt command.

\CpyRtInfoFont \CpyRtInfoFont sets the font used to print the copyright licensing information pa-
rameter of the \song environment; which appears after the copyright information
parameter under the song title.

\STitleFont \STitleFont sets the font used to print the song title, as generated by the \STitle
command.

\STitleKeyFont \STitleKeyFont sets the font used to print the key a song is written in, as gener-
ated by the \STitle command.

\STitleNumberFont \STitleNumberFont sets the font used to print the \SBSongCnt in front of the
song title, as generated by the \STitle command. This is one of two Songbook
font commands that are implemented using a real  $\LaTeX$ 2e \font command; this
turned out to be the easiest manner in which to obtain the desired fonts. In order to
make the \STitleNumberFont's behaviour the the same as the other Songbook font
commands, the implementation is done indirectly; whereby the \font command
is inserted into the \STitleNumberFont command so that it may be changed by
the user in the same way as the other font commands in this package.
```

<sup>1</sup>Given that `doc.dtx` uses fonts in this fashion, I feel I'm in pretty good company.

`\ScriptRefFont` `\ScriptRefFont` sets the font used to print the scripture reference generated by the `\ScriptRef` command.

`\WandMFont` `\WandMFont` sets the font used to print the lyricist and composer line generated by the `\WandM` command.

```

55 \newcommand{\CpyRtFont}{\footnotesize}           % = cmr10 at 10pt
56 \newcommand{\CpyRtInfoFont}{\tiny}             % = cmss8 at 8pt
57 \newcommand{\STitleFont}{\large\bf\sf}         % = cmss12 at 14.4pt
58 \newcommand{\STitleKeyFont}{\large}           % = cmr12 at 14.4pt
59 \font\STNFont=cmtt12 at 20pt
60 \newcommand{\STitleNumberFont}{\STNFont}       % = cmtt12 at 20pt
61 \newcommand{\ScriptRefFont}{\footnotesize}     % = cmr10 at 10pt
62 \newcommand{\WandMFont}{\footnotesize}         % = cmr10 at 10pt

```

### 14.2.3 Versicle Tag Fonts

These font selectors are used to select the fonts used to tag verses, choruses, bridges, and other elements with which a song is constructed (e.g., verse numbers, “Ch:” chorus indicator, etc.):

`\SBBracketTagFont` `\SBBracketTagFont` sets the font used to create the tag for an `SBBracket` environment.

`\SBBridgeTagFont` `\SBBridgeTagFont` sets the font used to create the tag for an `SBBridge` environment.

`\SBChorusTagFont` `\SBChorusTagFont` sets the font used to print the chorus tag, `\SBChorusTag`.

`\SBEndTagFont` `\SBEndTagFont` sets the font used to print the tag, `\SBEndTag`, for the `\SBEnd` command.

`\SBIntroTagFont` `\SBIntroTagFont` sets the font used to print the introduction tag, `\SBIntroTag`.

`\SBOccursBrktFont` `\SBOccursBrktFont` sets the font used to create the large left and right square brackets used to delimit the `\SBOccurs` environment.

`\SBOccursTagFont` `\SBOccursTagFont` sets the font used to create the `\SBOccurs` tag.

`\SBVerseNumberFont` `\SBVerseNumberFont` sets the font used to print the `\SBVerseCnt` in front of verses in an `SBVerse` environment.

`\SBSectionNumberFont` `\SBSectionNumberFont` sets the font used to print the `\SBSectionCnt` in front of sections in an `SBSection` environment.

```

63 \newcommand{\SBBracketTagFont}{\small\bf\sf}    % = cmss10 at 10.0pt
64 \newcommand{\SBBridgeTagFont}{\SBEndTagFont}   % = cmss10 at 10.9pt
65 \newcommand{\SBChorusTagFont}{\small\bf\sf}    % = cmss10 at 10.9pt
66 \newcommand{\SBEndTagFont}{\small\bf\sf}       % = cmss10 at 10.9pt
67 \newcommand{\SBIntroTagFont}{\SBEndTagFont}    % = cmss10 at 10.9pt
68 \font\SB0BFont=cmss17 at 30pt
69 \newcommand{\SBOccursBrktFont}{\SB0BFont}      % = cmss17 at 30pt
70 \newcommand{\SBOccursTagFont}{\small\bf\sf}    % = cmss10 at 10.0pt
71 \newcommand{\SBVerseNumberFont}{\small\bf\sf}  % = cmss10 at 10.9pt
72 \newcommand{\SBSectionNumberFont}{\small\bf\sf} % = cmss10 at 10.9pt
73

```

### 14.2.4 Marginal Notes Fonts

These font selectors are used to select the fonts used when Songbook commands make notations in the margin of the songbook:

`\SBMargNoteFont` `\SBMargNoteFont` sets the font used in the marginal reference printed by the `\SBMargNote` command.

`\SBRefFont` `\SBRefFont` sets the font used in the marginal reference printed by the `\SBRef` command.

```
74 \newcommand{\SBMargNoteFont}{\scriptsize}      % = cmti8 at 8pt
75 \newcommand{\SBRefFont}{\SBMargNoteFont}      % = cmti8 at 8pt
```

### 14.2.5 Song Body Fonts

These font selector command are used to select fonts which are used within the body of songs:

`\SBDefaultFont` `\SBDefaultFont` sets the default font for the songbook. We will insert an occurrence of this command at the top of the songbook using the `\AtBeginDocument{}` clause, below.

`\SBLyricNoteFont` `\SBLyricNoteFont` sets the font used in comments placed within the lyrics giving musical direction. This is the only font command commonly used by the writer of a songbook. For example, to tag a line to be sung only by the Cantor and another by everyone, one would write:

```
{\SBLyricNoteFont (Cantor)} Give thanks to the Lord.
```

```
{\SBLyricNoteFont (All)} His love endures forever.
```

```
76 \newcommand{\SBDefaultFont}{\fontfamily{\rmdefault}%
77 \large} % = cmr12 at 14.4pt
78 \newcommand{\SBLyricNoteFont}{\footnotesize\sf} % = cmss10 at 10pt
```

### 14.2.6 Other Fonts

The remaining font selector commands:

`\SBOHContTagFont` `\SBOHContTagFont` sets the font used to print the `\OHContPgFtr` and `\OHContPgHdr`.

```
79 \newcommand{\SBOHContTagFont}{\small\bf\sf\itshape} % = cmss10 at 10.9pt
80
```

## 14.3 Configurable Dimensions

In this section we define the spaces to leave in various situations.

All of these spaces are defined as  $\text{\LaTeX}2\text{e}$  commands to overcome limitations in length evaluation. For example, if `\LeftMarginSBVerse` were to be defined as a length, and then immediately set to `4ems` the specific length would be evaluated with respect to the current font. This is not be what is desired; instead a length evaluated with respect to the font in place at the start of an `SBVerse` is what is desired. This can only be done by making these lengths  $\text{\LaTeX}2\text{e}$  commands.

```
81 %=====
82 %   C O N F I G U R A B L E   D I M E N S I O N S   %
83 %=====
```

### 14.3.1 Published Dimensions

While the bulk of the declared dimensions have been created to make the Songbook style more user configurable, there are also some dimensions which were created for internal use. This first section describes the user configurable dimensions:

`\HangAmt` `\HangAmt` is the amount to indent when a line wraps. This has been defined using `\newcommand` instead of `\newlength` so that any unit definitions are evaluated at the time the `\HangAmt` command is used.

`\LeftMarginSBBracket` `\LeftMarginSBBracket` is the amount of left margin left in front of `SBBackets` and `SBBacket*s` in the songbook. The value for this variable has been chosen such that the song-words for `SBVerses`, `SBChoruses`, and `SBBackets` all align against the same left margin when printing standard words & chords songbooks.

`\LeftMarginSBChorus` `\LeftMarginSBChorus` is the amount of left margin left in front of named choruses in the songbook. In most cases `\LeftMarginSBChorus`, `\LeftMarginSBSection`, and `\LeftMarginSBVerse` should all be the same value.

`\LeftMarginSBSection` `\LeftMarginSBSection` is the amount of left margin left in front of sections in the songbook.

`\LeftMarginSBVerse` `\LeftMarginSBVerse` is the amount of left margin left in front of verses in the songbook.

`\SBChordRaise` `\SBChordRaise` is the distance to raise the chords above the baseline of the text they sit over.

`\SBRuleRaiseAmount` `\SBRuleRaiseAmount` is the distance to raise the rule (as specified by `\SBIntersyllableRule`) which fills the space between adjoining syllables.

`\SpaceAboveSTitle` `\SpaceAboveSTitle` is the space skipped by the `\STitle` macro before it prints the song title.

`\SpaceAfterTitleBlk` `\SpaceAfterTitleBlk` is the space inserted by the song environment between the *title block* and the versicles.

`\SpaceAfterChorus` `\SpaceAfterChorus` is the vertical space to leave after an `SBChorus` environment.

`\SpaceAfterOpGroup` `\SpaceAfterOpGroup` is the vertical space to leave after an `SBOpGroup` environment.

`\SpaceAfterSBBacket` `\SpaceAfterSBBacket` is the vertical space to leave after an `SBBacket` environment. This has proven troublesome to choose (see also `\SpaceBeforeSBBacket` because the `list` environment that produces the versicle inside of the `SBBacket` environment is itself enclosed inside of a math construct (which requires the `list` to have its vertical spacing suppressed—otherwise the vertical line forming the left bracket encloses unnecessary whitespace). The vertical spacing around a list is created by way of some nontrivial macros and can't simply be copied into some other context. Thus, the choice of values for `\SpaceAfterSBBacket` and `\SpaceBeforeSBBacket` have been rather arbitrarily chosen.

`\SpaceAfterSection` `\SpaceAfterSection` is the vertical space to leave after an `SBSection` environment.

`\SpaceAfterSong` `\SpaceAfterSong` is the vertical space to leave after a song.

`\SpaceAfterVerse` `\SpaceAfterVerse` is the vertical space to leave after an `SBVerse` environment.

`\SpaceBeforeSBBacket` `\SpaceBeforeSBBacket` is the vertical space to leave before an `SBBacket` environment. None of the other versicles have an extra space inserted before them. See `\SpaceAfterSBBacket` for further explanation.

```

84 \newcommand{\HangAmt}           {1.5em}
85 \newcommand{\LeftMarginSBBracket}{2.85em}
86 \newcommand{\LeftMarginSBChorus}{4em}
87 \newcommand{\LeftMarginSBSection}{\LeftMarginSBChorus}
88 \newcommand{\LeftMarginSBVerse}{\LeftMarginSBChorus}
89 \newcommand{\SBChordRaise}     {2.25ex}
90 \newcommand{\SBOldChordRaise}  {2.90ex}
91 \newcommand{\SBRuleRaiseAmount}{0.57ex}
92 \newcommand{\SpaceAboveSTitle}{0.5in}
93 \newcommand{\SpaceAfterTitleBlk}{-1.75ex}

```

```

94 \newcommand{\SpaceAfterChorus} {\vspace{0ex plus0ex minus3ex}}
95 \newcommand{\SpaceAfterOpGroup} {\vspace{0ex plus0ex minus3ex}}
96 \newcommand{\SpaceAfterSBBracket}{\vspace{2ex plus1ex minus1ex}}
97 \newcommand{\SpaceAfterSection} {\vspace{0ex plus0ex minus3ex}}
98 \newcommand{\SpaceAfterSong} {\vspace{0ex plus10ex minus3ex}}
99 \newcommand{\SpaceAfterVerse} {\vspace{0ex plus0ex minus3ex}}
100 \newcommand{\SpaceBeforeSBBracket}{\vspace{1ex plus1ex minus1ex}}
101

```

### 14.3.2 Internal Dimensions

These variables are used internally within Songbook macros. They are not part of the published `songbook.sty` interface; but can be used to tune some of its functions.

```

\chSpaceTolerance The \chSpaceTolerance and \chMiniSpace lengths are used in the \Chr macro.
\chMiniSpace
\sbBaselineSkipAmt \sbBaselineSkipAmt is used internally in SBVerse, SBChorus, and all the other
versicle environments; where hanging indentation has been accomplished using a
specially defined list environment. The value of \sbBaselineSkipAmt is recalculated
immediately before each being used in each hanging indent list.
102 \newlength{\chSpaceTolerance} \setlength{\chSpaceTolerance}{1.5mm}
103 \newlength{\chMiniSpace} \setlength{\chMiniSpace} {0.3mm}
104 \newlength{\sbBaselineSkipAmt} \setlength{\sbBaselineSkipAmt}{0pt}
105

```

## 14.4 Declaration Of Non-Core Options

In the *Declaration Of Options* section of the `.sty` file we deal with the various options which a user may specify in the options part of the `\usepackage{songbook}` command. Since the Songbook style accepts standard L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε papersize options, we deal with those in addition to the style's own options. The documentation of these options is broken into two parts: the core options (`chordbk`, `wordbk`, & `overhead`), and the non-core options (all the rest).

The L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε documentation specifies that the options will be processed in the order in which they are listed in the `.sty` file. We take advantage of this fact and cause all of the options except the core three (`chordbk`, `wordbk`, & `overhead`) to simply set flags which indicate they were user-specified. The core options then do all the work.

```

106 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
107 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
108 %%                                %%
109 %%      D E C L A R A T I O N   O F   O P T I O N S      %%
110 %%                                %%
111 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
112 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
113

```

### 14.4.1 Papersize Options

Paper selection options inherited from Book Class. We process these first in order to remember what paper size the user has selected; before processing the Songbook's own options.

The code in each of these `\DeclareOption{}` clauses sets the `\SBpaper...` flags to unambiguously indicate which papersize the user specified.

```

114 %=====
115 %%      P A P E R S I Z E   O P T I O N S      %
116 %=====

```

`a4paper`

```

117 \DeclareOption{a4paper}{% Paper size: 210mm x 297mm
118   \SBpaperAfourtrue

```

```

119 \SBpaperAfivefalse
120 \SBpaperBfivefalse
121 \SBpaperLtrfalse
122 \SBpaperLglfalse
123 \SBpaperExcfalse
124 }
125

```

#### a5paper

```

126 \DeclareOption{a5paper}{% Paper size: 148mm x 210mm
127 \SBpaperAfourfalse
128 \SBpaperAfivefalse
129 \SBpaperBfivefalse
130 \SBpaperLtrfalse
131 \SBpaperLglfalse
132 \SBpaperExcfalse
133 }
134

```

#### b5paper

```

135 \DeclareOption{b5paper}{% Paper size: 176mm x 250mm
136 \SBpaperAfourfalse
137 \SBpaperAfivefalse
138 \SBpaperBfivefalse
139 \SBpaperLtrfalse
140 \SBpaperLglfalse
141 \SBpaperExcfalse
142 }
143

```

#### letterpaper

```

144 \DeclareOption{letterpaper}{% Paper size: 8.5in x 11in
145 \SBpaperAfourfalse
146 \SBpaperAfivefalse
147 \SBpaperBfivefalse
148 \SBpaperLtrtrue
149 \SBpaperLglfalse
150 \SBpaperExcfalse
151 }
152

```

#### legalpaper

```

153 \DeclareOption{legalpaper}{% Paper size: 8.5in x 14in
154 \SBpaperAfourfalse
155 \SBpaperAfivefalse
156 \SBpaperBfivefalse
157 \SBpaperLtrfalse
158 \SBpaperLgltrue
159 \SBpaperExcfalse
160 }
161

```

#### executivepaper

```

162 \DeclareOption{executivepaper}{% Paper size: 7.25in x 10.5in
163 \SBpaperAfourfalse
164 \SBpaperAfivefalse
165 \SBpaperBfivefalse
166 \SBpaperLtrfalse
167 \SBpaperLglfalse
168 \SBpaperExctrue
169 }
170

```

### 14.4.2 Compactsong Option

This option tells the Songbook style to present the songs in a compact form. For `chordbk` mode this means presenting the songs in two columns per page using a smaller font. When I can figure out what this option should mean for the other



modes I'll code them up. In the mean time, `wordbk` and `overhead` modes simply ignore the `compactsong` option. Like the papersize options, the `compactsong` processing here simply sets a flag; the actual code required to implement `compactsong` mode is embedded below inside the three core options.

```
171 %%=====
172 %%          C O M P A C T S O N G   O P T I O N          %
173 %%=====
```

`compactsong`

```
174 \DeclareOption{compactsong}{%
175   %%
176   % Set flag to indicate the user wants compact song mode.
177   \CompactSongModetrue
178 }
179
```

### 14.4.3 Printallsongs Option

This option tells the Songbook style to print all songs in the songbook, regardless of what has been specified in each song. Like the papersize options, the `printallsongs` processing here simply sets a flag; the actual code required to implement `printallsongs` mode is embedded below inside the `song` environment.

```
180 %%=====
181 %%          P R I N T A L L S O N G S   O P T I O N          %
182 %%=====
```

`printallsongs`

```
183 \DeclareOption{printallsongs}{%
184   %%
185   % Set flag to indicate the user wants to print all songs.
186   \PrintAllSongstrue
187 }
188
```

## 14.5 Declaration Of Core Options

Now we deal with the Options which set up the songbook instances appropriately; i.e., a “words-only”, “chords & words”, or “overhead master” book (`wordbk`, `chordbk`, & `overhead`). These option declarations take advantage of the fact that we have already been told what paper size to design for.

The style has been constructed on the underlying assumption that the user *must* specify one of the core options. To that end, we will later throw an error if none of these three options was executed (done at `\AtBeginDocument` time, see the top of the *Main Code Part* for details).

```
189 %%=====
190 %%          S O N G B O O K   C O R E   O P T I O N S          %
191 %%=====
```

### 14.5.1 chordbk Option

`chordbk` The `chordbk` option is executed here.

Each of the core options is structured similarly. As a result, the documentation for the first one, `chordbk`, will be more detailed, and the other two subsections will refer to this one.

```
192 \DeclareOption{chordbk}{%
```

Set flags to indicate that we *are* in `chordbk` mode. Set flags to indicate we are *not* in words-only mode. Indicate that we *do* want a page eject after every song.

```
193   \ChordBktrue
194   \WordBkfalse
```

```

195 \Overheadfalse
196 \WordsOnlyfalse
197 \NotWordsOnlytrue
198 \SongEjecttrue
199

```

**Page Layout** This first part specifies the page layout considerations.

Page layout usage recommendation: copy the appropriate page layout commands to the preamble of your own document and customize them appropriately. This will over-ride the default layout specified herein. Use a structure like this one to handle the three songbook types automatically for your songbooks:

```

\ifChordBk
  <page layout for Words & Chords books>
\else\ifWordBk
  <page layout for Words-Only books>
\else\ifOverhead
  <page layout for Overhead masters>
\fi\fi\fi

```

The only way I found to get these page layouts successfully built was to draw the various frames in a drawing package and then use a combination of page measurements and hand calculations to ensure I had everything done correctly. One of the key concepts that had not been evident to me until just recently was that on even pages the `\marginparsep` and `\marginparwidth` variables exist *inside* the `\evensidemargin`; this fact is not explicitly mentioned in any L<sup>A</sup>T<sub>E</sub>X manual I have read, not even in “The L<sup>A</sup>T<sub>E</sub>X Companion”!

The negative `\hoffset` and `\voffset` are to overcome the DVI driver default left and top margins of 1in, and all page layout commands herein assume these offsets have been “unset” in this fashion.

```

200 \voffset=-1.00in
201 \hoffset=-1.00in
202

```

Papersize-dependant processing. In general we don’t change anything except the page layout, however for smaller page sizes the some of the fonts are reduced to ensure that the songs fit reasonably onto the page.

```

203 \ifSBpaperAfour
204   \topmargin=0.5in
205   \headheight=0.21in
206   \headsep=0.2in
207   \textheight=10.0in
208   \footskip=0.19in
209   %
210   \oddsidemargin=0.618in
211   \evensidemargin=1.4in
212   \textwidth=6.25in
213   \marginparsep=0.2in
214   \marginparwidth=0.8in
215 \else\ifSBpaperAfive
216   \topmargin=6.0mm
217   \headheight=5.334mm
218   \headsep=2.666mm
219   \textheight=185.17mm
220   \footskip=4.826mm
221   %
222   \oddsidemargin=12.0mm
223   \evensidemargin=30.0mm
224   \textwidth=106.0mm
225   \marginparsep=3.68mm
226   \marginparwidth=20.32mm

```

Downsize the fonts to allow song to fit into the smaller A5 papersize.

```

227 \renewcommand{\ChBassFont}{\small\bf\sf}           % = cmss12 at 11.0pt
228 \renewcommand{\ChFont}{\normalsize\fontfamily{\sfdefault}}

```

```

229     \fontseries{sbc}\fontshape{n}\selectfont}      %=cmssbc12 at 12.0pt
230     \renewcommand{\ChBkFont}{\ChFont\fontseries{m} %
231     \selectfont}                                     %=cmssm12 at 12.0pt
232     \renewcommand{\SBDefaultFont}{\normalsize}     %= cmr12 at 12.0pt
233     \renewcommand{\SB0ccursBrktFont}{\large\bf\sf} %= cmss10 at 10.9pt
234 \else\ifSBpaperBfive
235     \topmargin=10.0mm
236     \headheight=5.334mm
237     \headsep=5.0mm
238     \textheight=214.84mm
239     \footskip=4.826mm
240     %
241     \oddsidemargin=20.0mm
242     \evensidemargin=34.0 mm
243     \textwidth=122.0mm
244     \marginparsep=3.68mm
245     \marginparwidth=20.32mm

```

Downsize the fonts to allow song to fit into the smaller B5 papersize.

```

246     \renewcommand{\ChBassFont}{\small\bf\sf}      %= cmss12 at 11.0pt
247     \renewcommand{\ChFont}{\normalsize\fontfamily{\sfdefault}%
248     \fontseries{sbc}\fontshape{n}\selectfont}     %=cmssbc12 at 12.0pt
249     \renewcommand{\ChBkFont}{\ChFont\fontseries{m} %
250     \selectfont}                                     %=cmssm12 at 12.0pt
251     \renewcommand{\SBDefaultFont}{\normalsize}     %= cmr12 at 12.0pt
252     \renewcommand{\SB0ccursBrktFont}{\large\bf\sf} %= cmss10 at 10.9pt
253 \else\ifSBpaperLtr
254     \topmargin=0.5in
255     \headheight=0.21in
256     \headsep=0.20in
257     \textheight=9.4in
258     \footskip=0.19in
259     %
260     \oddsidemargin=0.75in
261     \evensidemargin=1.5in
262     \textwidth=6.25in
263     \marginparsep=0.2in
264     \marginparwidth=0.8in
265 \else\ifSBpaperLgl
266     \topmargin=0.5in
267     \headheight=0.21in
268     \headsep=0.20in
269     \textheight=12.4in
270     \footskip=0.19in
271     %
272     \oddsidemargin=0.75in
273     \evensidemargin=1.5in
274     \textwidth=6.25in
275     \marginparsep=0.2in
276     \marginparwidth=0.8in
277 \else\ifSBpaperExc
278     \topmargin=0.25in
279     \headheight=0.21in
280     \headsep=0.165in
281     \textheight=9.435in
282     \footskip=0.19in
283     %
284     \oddsidemargin=0.5in
285     \evensidemargin=1.25in
286     \textwidth=5.5in
287     \marginparsep=0.2in
288     \marginparwidth=0.8in
289 \fi\fi\fi\fi\fi\fi
290

```

Enable ragged bottom.

```

291     \raggedbottom
292

```

**CompactSong Processing** Downsize fonts to allow song to fit into half the space (i.e., two column mode); although the title will not be reset since it will be presented unchanged from normal chordbk mode.

```

293 \ifCompactSongMode
294 \renewcommand{\ChBassFont}{\small\bf\sf} % = cmss12 at 11.0pt
295 \renewcommand{\ChFont}{\normalsize\fontfamily{\sfdefault}%
296 \fontseries{sb}\fontshape{n}\selectfont} % = cmssbc12 at 12.0pt
297 \renewcommand{\ChBkFont}{\ChFont\fontseries{m} %
298 \selectfont} % = cmssm12 at 12.0pt
299 \renewcommand{\SBDefaultFont}{\normalsize} % = cmr12 at 12.0pt
300 \renewcommand{\SBOccursBrktFont}{\large\bf\sf} % = cmss10 at 10.9pt
301

```

Multicol specific changes.

```

302 \setlength{\columnsep}{0.25in}
303

```

Remove side-margin, since marginal notes are not allowed when using multicol.sty.

```

304 \addtolength{\textwidth} {\marginparsep + \marginparwidth}
305 \addtolength{\evensidemargin}{-\marginparsep - \marginparwidth}
306 \setlength {\marginparsep} {0in}
307 \setlength {\marginparwidth}{0in}
308

```

Reduce minimum spacing amount used in \Chr macro (since we're now using a smaller font for lyrics and chords.

```

309 \setlength{\chSpaceTolerance}{1.0mm}
310

```

Remove the extra space before Verses, etc.

```

311 \renewcommand{\HangAmt} {1.5em}
312 \renewcommand{\LeftMarginSBChorus} {2em}
313 \renewcommand{\LeftMarginSBSection}{\LeftMarginSBChorus}
314 \renewcommand{\LeftMarginSBVerse} {\LeftMarginSBChorus}
315 \fi
316 }
317

```

## 14.5.2 wordbk Option

wordbk The wordbk option is executed here.

```

318 \DeclareOption{wordbk}{%

```

Set flags to indicate we *are* in wordbk mode. Set flags to indicate we *are* in words-only mode. Indicate that we do *not* want a page eject after every song.

```

319 \ChordBkfalse
320 \WordBktrue
321 \Overheadfalse
322 \WordsOnlytrue
323 \NotWordsOnlyfalse
324 \SongEjectfalse
325

```

Set fonts for wordbk use.

```

326 \renewcommand{\SBDefaultFont}{\normalsize}
327 \font\mySTNFont=cmtt12 at 17pt
328 \renewcommand{\STitleNumberFont}{\mySTNFont}
329 \renewcommand{\CpyRtFont}{\scriptsize}
330 \renewcommand{\WandMFont}{\scriptsize}
331 \renewcommand{\ScriptRefFont}{\scriptsize}
332 \renewcommand{\SBOccursBrktFont}{\large\bf\sf}
333

```

Reset a few of the song spacing amounts.

```
334 \renewcommand{\SpaceAboveSTitle} {0.25in}
335 \renewcommand{\LeftMarginSBChorus} {1.5em}
336 \renewcommand{\LeftMarginSBSection}{\LeftMarginSBChorus}
337 \renewcommand{\LeftMarginSBVerse} {\LeftMarginSBChorus}
338
```

See the page layout comment in the `\DeclareOption{chordbk}` section, above, for usage recommendations w.r.t. page layout commands.

The negative `\hoffset` and `\voffset` are to overcome the DVI driver default left and top margins of 1in, and all page layout commands herein assume these offsets have been “unset” in this fashion.

```
339 \voffset=-1.00in
340 \hoffset=-1.00in
341
```

Papersize-dependant processing.

```
342 \ifSBpaperAfour
343   \topmargin=0.5in
344   \headheight=0.21in
345   \headsep=0.2in
346   \textheight=10.0in
347   \footskip=0.19in
348   %
349   \oddsidemargin=0.618in
350   \evensidemargin=0.4in
351   \textwidth=7.25in
352   \marginparsep=0.0in
353   \marginparwidth=0.0in
354 \else\ifSBpaperAfive
355   \topmargin=6.0mm
356   \headheight=5.334mm
357   \headsep=2.666mm
358   \textheight=185.17mm
359   \footskip=4.826mm
360   %
361   \oddsidemargin=12.0mm
362   \evensidemargin=6.0mm
363   \textwidth=130.0mm
364   \marginparsep=0.0mm
365   \marginparwidth=0.0mm
366 \else\ifSBpaperBfive
367   \topmargin=10.0mm
368   \headheight=5.334mm
369   \headsep=5.0mm
370   \textheight=214.84mm
371   \footskip=4.826mm
372   %
373   \oddsidemargin=20.0mm
374   \evensidemargin=10.0mm
375   \textwidth=146.0mm
376   \marginparsep=0.0mm
377   \marginparwidth=0.0mm
378 \else\ifSBpaperLtr
379   \topmargin=0.5in
380   \headheight=0.21in
381   \headsep=0.10in
382   \textheight=9.4in
383   \footskip=0.29in
384   %
385   \oddsidemargin=0.75in
386   \evensidemargin=0.5in
387   \textwidth=7.25in
388   \marginparsep=0.0in
389   \marginparwidth=0.0in
390 \else\ifSBpaperLgl
391   \topmargin=0.5in
392   \headheight=0.21in
393   \headsep=0.20in
```

```

394 \textheight=12.4in
395 \footskip=0.19in
396 %
397 \oddsidemargin=0.75in
398 \evensidemargin=0.5in
399 \textwidth=7.25in
400 \marginparsep=0.0in
401 \marginparwidth=0.0in
402 \else\ifSBpaperExc
403 \topmargin=0.25in
404 \headheight=0.21in
405 \headsep=0.165in
406 \textheight=9.435in
407 \footskip=0.19in
408 %
409 \oddsidemargin=0.5in
410 \evensidemargin=0.25in
411 \textwidth=6.5in
412 \marginparsep=0.0in
413 \marginparwidth=0.0in
414 \fi\fi\fi\fi\fi\fi
415

```

Set ragged-right margins.

```

416 \raggedright
417

```

Do CompactSong processing, which at this time is nothing except resetting the `compactsong` flag back to false; to ensure that no `compactsong` processing occurs. We take time to print a warning message for the user to remind them that the `compactsong` option will not have any effect at this time.

```

418 \ifCompactSongMode
419 \typeout{'compactsong' mode not implemented for Wordbk mode.}
420 \CompactSongModefalse
421 \fi
422 }
423

```

### 14.5.3 overhead Option

`overhead` The `wordbk` option is executed here.

```

424 \DeclareOption{overhead}{%

```

Set flags to indicate we *are* in overhead mode. Set flags to indicate we *are* in words-only mode. Indicate that we *do* want a page eject after every song.

```

425 \ChordBkfalse
426 \WordBkfalse
427 \Overheadtrue
428 \WordsOnlytrue
429 \NotWordsOnlyfalse
430 \SongEjecttrue
431

```

Set fonts for overhead use. Before doing any font stuff, change the regular sans serif font to demi-bold condensed.

```

432 \def\@mss{cmssdc10}
433 \renewcommand{\SBDefaultFont}{\LARGE\bf\sf}
434 \renewcommand{\STitleNumberFont}{\Large\sf}
435 \renewcommand{\STitleFont}{\LARGE\sf}
436 \renewcommand{\CpyRtFont}{\normalsize\rm}
437 \renewcommand{\CpyRtInfoFont}{\normalsize\rm}
438 \renewcommand{\WandMFont}{\normalsize\rm}
439 \renewcommand{\ScriptRefFont}{\normalsize\rm}
440 \renewcommand{\SBLyricNoteFont}{\normalsize\rm}
441 \renewcommand{\SBChorusTagFont}{\Large\sf}
442 \renewcommand{\SBVerseNumberFont}{\Large\sf}
443 \renewcommand{\SBSectionNumberFont}{\Large\sf}
444 \renewcommand{\SBOccursTagFont}{\Large\sf}

```

```

445 \renewcommand{\SBOccursBrktFont}{\huge\sf}
446 \renewcommand{\SBBracketTagFont}{\Large\sf}
447 \renewcommand{\SBOHContTagFont}{\Large\sf\itshape}
448

```

Reset a few of the song spacing amounts.

```

449 \renewcommand{\SpaceAboveSTitle} {0.25in}
450 \renewcommand{\LeftMarginSBBracket}{2.25em}
451 \renewcommand{\LeftMarginSBChorus} {1.5em}
452 \renewcommand{\LeftMarginSBSection}{\LeftMarginSBChorus}
453 \renewcommand{\LeftMarginSBVerse} {\LeftMarginSBChorus}
454

```

Reset the . For some reason I'm not getting good results with the default value.

```

455 \renewcommand{\baselinestretch}{.9}
456

```

See the page layout comment in the `\DeclareOption{chordbk}` section, above, for usage recommendations w.r.t. page layout commands.

General note re: `\textwidth` and overhead transparencies: it is my personal experience that with font sizes used in overhead mode, a `\textwidth` of greater than 6in produces too wide an image for use in all situations. Depending upon how you intend to use your overheads, you may be able to use a wider image, however if you are uncertain I strongly recommend you stick with the 6in `\textwidth` that is specified herein.

The negative `\hoffset` and `\voffset` are to overcome the DVI driver default left and top margins of 1in, and all page layout commands herein assume these offsets have been “unset” in this fashion.

```

457 \voffset=-1.00in
458 \hoffset=-1.00in
459

```

Papersize-dependant processing.

```

460 \ifSBpaperAfour
461 \topmargin=0.25in
462 \headheight=0.25in
463 \headsep=0.0in
464 \textheight=10.3in
465 \footskip=0.2in
466 %
467 \oddsidemargin=1.134in
468 \evensidemargin=1.134in
469 \textwidth=6.0in
470 \marginparsep=0.0in
471 \marginparwidth=0.0in
472 \else\ifSBpaperAfive
473 \topmargin=0.0mm
474 \headheight=5.334mm
475 \headsep=0.0mm
476 \textheight=193.666mm
477 \footskip=4.826mm
478 %
479 \oddsidemargin=9.0mm
480 \evensidemargin=9.0mm
481 \textwidth=130.0mm
482 \marginparsep=0.0mm
483 \marginparwidth=0.0mm
484 \else\ifSBpaperBfive
485 \topmargin=0.666mm
486 \headheight=5.334mm
487 \headsep=0.0mm
488 \textheight=229.0mm
489 \footskip=4.826mm
490 %
491 \oddsidemargin=15.0mm
492 \evensidemargin=15.0mm

```

```

493 \textwidth=146.0mm
494 \marginparsep=0.0mm
495 \marginparwidth=0.0mm
496 \else\ifSBpaperLtr
497 \topmargin=0.25in
498 \headheight=0.25in
499 \headsep=0.0in
500 \textheight=9.75in
501 \footskip=0.2in
502 %
503 \oddsidemargin=1.25in
504 \evensidemargin=1.25in
505 \textwidth=6.0in
506 \marginparsep=0.0in
507 \marginparwidth=0.0in
508 \else\ifSBpaperLgl
509 \topmargin=0.25in
510 \headheight=0.25in
511 \headsep=0.0in
512 \textheight=12.8in
513 \footskip=0.2in
514 %
515 \oddsidemargin=1.25in
516 \evensidemargin=1.25in
517 \textwidth=6.0in
518 \marginparsep=0.0in
519 \marginparwidth=0.0in
520 \else\ifSBpaperExc
521 \topmargin=0.25in
522 \headheight=0.21in
523 \headsep=0.0in
524 \textheight=9.6in
525 \footskip=0.19in
526 %
527 \oddsidemargin=0.625in
528 \evensidemargin=0.625in
529 \textwidth=6.0in
530 \marginparsep=0.0in
531 \marginparwidth=0.0in
532 \fi\fi\fi\fi\fi\fi
533

```

Set ragged-bottom and ragged-right margins.

```

534 \raggedright
535 \raggedbottom
536

```

Do CompactSong processing, which at this time is nothing except resetting the `compactsong` flag back to false; to ensure that no `compactsong` processing occurs. We take time to print a warning message for the user to remind them that the `compactsong` option will not have any effect at this time.

```

537 \ifCompactSongMode
538 \typeout{'compactsong' mode not implemented for Overhead mode.}
539 \CompactSongModefalse
540 \fi
541 }
542

```

## 14.6 Execution Of Options

Here we tell the the Songbook style to execute the user's declared options.

First set up a default paper size, just in case the user didn't specify one. Then process the user specified options. It is mandatory for one of the songbook type options to be declared, but rather than delare a default we will throw an error (see below at the top of the *Main Code Part*).

```

543 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
544 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```



```

545 %%
546 %% EXECUTION OF OPTIONS %%
547 %%
548 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
549 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
550
551 \ExecuteOptions{letterpaper}
552 \ProcessOptions
553

```

## 14.7 Package Loading Part

In this section of the style we load the remaining styles upon which the Songbook style is dependant.

```

554 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
555 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
556 %%
557 %% PACKAGE LOADING PART %%
558 %%
559 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
560 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
561

```

Donald Arseneau's `conditionals.sty`. This style is bundled with the Songbook style (Donald has often posted the macros to the USENET comp.text.tex newsgroup, but they haven't been formally submitted to CTAN.

```

562 \RequirePackage{conditionals}
563

```

Leslie Lamport's & David Carlisle's `ifthen.sty`. This style is part of the L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>e distribution.

```

564 \RequirePackage{ifthen}
565

```

If we are in `compactsong` mode then load Frank Mittelbach's `multicol` package. We specify the date of the 1.5u release; since we make use of the `\columnbreak` command which was only added in 1.5u.

```

566 \ifCompactSongMode
567 \RequirePackage{multicol}[1999/05/25]
568 \fi
569

```

## 14.8 Main Code Part

The *Main Code Part* is the main part of the style. All of the “hard working” macros are detailed below.

```

570 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
571 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
572 %%
573 %% MAIN CODE PART %%
574 %%
575 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
576 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
577

```

The user *must* specify at least one of the `chordbk`, `wordbk`, or `overhead` options; otherwise we throw an error. This bit of code performs that check at the start of the users document.

We check to see if at least one of the core options have been specified by the user by populating an `\hbox{}` with the digit “1” if an option was specified. If no core option was specified then the `\hbox{}` will be empty and we throw an error.

```
\AtBeginDocument
```

```
578 \AtBeginDocument{%
```

```

579 \setbox0=\hbox{}
580 %
581 \ifChordBk\setbox0=\hbox{1}\fi
582 \ifWordBk\setbox0=\hbox{1}\fi
583 \ifOverhead\setbox0=\hbox{1}\fi
584 %
585 \ifthenelse{\wd0 = 0}
586   {\errmessage{No songbook option (i.e., type) specified.
587     Specify a songbook mode in your usepackage
588     statement; one of: [chordbk], [wordbk], or [overhead]}}
589   {\relax}
590

```

If the user had specified one of the required options then we continue with setting things up. At present, the only housekeeping item that needs attention is to set the default font for the songbook. We do this by inserting the `\SBDefaultFont` here; this lifts from the user the burden of having to remember to specifying inside the songbook.

```

591 \SBDefaultFont
592 }
593

```

### 14.8.1 Constants & Variables

Define Counters used herein.

```

594 %%=====
595 %%      C O N S T A N T S   &   V A R I A B L E S      %
596 %%=====
597

```

`\theSBSongCnt` The `\theSBSongCnt` counter is used for numbering the songs. When a song is listed multiple times (for multiple keys) the songs number must remain the same each time.

`\theSBSectionCnt` The `\theSBSectionCnt` counter is used for numbering sections as they occur within a song.

`\theSBVerseCnt` The `\theSBVerseCnt` counter is used for numbering verses as they occur within a song.

```

598 \newcounter{SBSongCnt}
599 \newcounter{SBSectionCnt}
600 \newcounter{SBVerseCnt}
601

```

#### String Constants

Declare string constants.

These constants are provided so that users may easily customize the appearance of formatted songs and songbooks. Use the `\renewcommand` command to change the value of these constants.

`\OHContPgFtrTag` The `\OHContPgFtrTag` tag is inserted by the `\OHContPgFtr` command. The default value for this is “continued on next page\ldots”.

`\OHContPgHdrTag` The `\OHContPgHdrTag` tag is inserted by the `\OHContPgHdr` command. The default value for this is “`\theSBSongCnt` \ --- `\theSongTitle`, continued\ldots”.

`\SBBaseLang` The `\SBBaseLang` tag is the name of the language of all songs not specified within an `songTranslation` environment, and also as the default value of the `songTranslation` environment’s optional song language parameter. The default value for this is “English”.

`\SBBridgeTag` The `\SBBridgeTag` tag is inserted before the start of a bridge. The default value for this is “Bridge:”.

<code>\SBChorusTag</code>	The <code>\SBChorusTag</code> tag is inserted before the first line of a chorus. The default value for this is “Ch:”.
<code>\SBContinueTag</code>	The <code>\SBContinueTag</code> tag is inserted in an <code>\SBContinueMark</code> . The default value for this is “cont\ldots”.
<code>\SBEndTag</code>	The <code>\SBEndTag</code> tag is inserted before the start of an ending (in an <code>\SBEnd</code> command). The default value for this is “End:”.
<code>\SBIntersyllableRule</code>	The <code>\SBIntersyllableRule</code> tag is actually the command(s) used to draw the rule between adjoining syllables.
<code>\SBIntroTag</code>	The <code>\SBIntroTag</code> tag is inserted before the start of an introduction (in an <code>\SBIntro</code> command). The default value for this is “Intro:”.
<code>\SBPubDom</code>	The <code>\SBPubDom</code> tag is used to indicate that a song is in the public domain. The default value for this is “Public Domain”. If you want to localize this string in the song title block, be sure to use this public interface: the <code>\CpyRt</code> macro uses <code>\SBPubDom</code> to determine whether or not to print the copyright symbol (©).
<code>\SBUnknownTag</code>	The <code>\SBUnknownTag</code> tag is used with the <code>\WandM</code> command and is the string to insert when either the author/artist or the copyright holder is unknown. The default value for this is “Unknown”.
<code>\SBWandMTag</code>	The <code>\SBWandMTag</code> the tag is insert before the words and music entry printed in the song header. The default value for this is “W&M:”.
<code>\Songbook</code>	The macro used to print this style’s name. The ‘b’ in the word songbook has been replace with a flat ( <i>b</i> ).
	<pre> 602 \newcommand{\OHContPgFtrTag}      {continued on next page\ldots} 603 \newcommand{\OHContPgHdrTag}     {\theSBSongCnt\ --- \theSongTitle, continued\ldots} 604 \newcommand{\SBBaseLang} {English} 605 \newcommand{\SBBridgeTag}       {Bridge:} 606 \newcommand{\SBChorusTag}      {Ch:} 607 \newcommand{\SBContinueTag}     {cont\ldots} 608 \newcommand{\SBEndTag}         {End:} 609 \newcommand{\SBIntersyllableRule}{\hrulefill} 610 \newcommand{\SBIntroTag}        {Intro:} 611 \newcommand{\SBPubDom}          {Public Domain} 612 \newcommand{\SBUnknownTag}     {Unknown} 613 \newcommand{\SBWandMTag}       {W&amp;M:} 614 \newcommand{\Songbook}         {\textrm{Song\$\flat\$ook}} 615 </pre>

**Internal Song Variables** Declare song attribute variables.

These variables are intended for consumption within the songbook style itself, so they will *not* be documented in the *High Level Documentation* section, above.

<code>\theSongComposer</code>	<code>\theSongComposer</code> is the composer and lyricist of the last song.
<code>\theSongComposerU</code>	<code>\theSongComposerU</code> takes the value of <code>\theSongComposer</code> except when the song composer parameter was left empty in the songbook; in which case this variable will be assigned the value of <code>\SBUnknownTag</code> .
<code>\theSongKey</code>	<code>\theSongKey</code> is the key of the last song. This variable must be reset within the <code>\STitle</code> command, as well as at the start of the song environment, because of the way in which extra keys are handled.
<code>\theSongLicense</code>	<code>\theSongLicense</code> is the copyright license info.
<code>\theSongTitle</code>	<code>\theSongTitle</code> is the title of the last song.

`\theCopyRtInfo` `\theCopyRtInfo` is the copyright information of the last song. This includes the copyright licensing information.

`\theScriptureRef` `\theScriptureRef` is the scripture reference of the last song.

`\theXlatnBy` `\theXlatnBy` is who translated the song.

`\theXlatnLang` `\theXlatnLang` is the language the song has been translated into.

`\theXlatnPerm` `\theXlatnPerm` is the permission details for the last song translation. This variable is reset to an empty string at the start of each song environment.

`\theXlatnTitle` `\theXlatnTitle` is the title of the last song-translation. This variable is reset to an empty string at the start of each song environment.

```

616 \newcommand{\theSongComposer}{the Composer}
617 \newcommand{\theSongComposerU}{the ComposerU}
618 \newcommand{\theSongCopyRt}{the Copyright}
619 \newcommand{\theSongKey}{the Key}
620 \newcommand{\theSongLicense}{the License}
621 \newcommand{\theSongScriptRef}{the Scripture}
622 \newcommand{\theSongTitle}{the Title}
623 \newcommand{\theXlatnBy}{the Translator}
624 \newcommand{\theXlatnLang}{the Language}
625 \newcommand{\theXlatnPerm}{the Permission}
626 \newcommand{\theXlatnTitle}{the Translation Title}
627

```

### 14.8.2 Special Characters

Some macros to ease the entry of special characters in songbooks.

```

628 %%=====
629 %%          S P E C I A L   C H A R A C T E R S          %
630 %%=====
631

```

`\SBem` `\SBem` — em-dash macro definition.

Parameters:  
None.

Generate an em-dash within a songbook. This macro is used to place in em-dash within text when we're *not* in words-only mode. This allows us to place dashes within text in order place a chord earlier than a syllable; yet, that dash will not appear in the words-only book. The words-only version of this macro is a no-op. Example of intended use:

```

632 \newcommand{\SBem}{\ifWordsOnly\relax\else---\fi}
633

```

`\SBen` `\SBen` — en-dash macro definition.

Parameters:  
None.

Generate an en-dash within a songbook. This macro is used to place in en-dash within text when we're *not* in words-only mode; just like `\SBem`. The words-only version of this macro is a no-op.

```

634 \newcommand{\SBen}{\ifWordsOnly\relax\else--\fi}
635

```

`\SBContinueMark` `\SBContinueMark` — conditionally produce a continuation symbol.

Parameters:  
None.

If the contents of `\rightmark` will result in nothing being typeset, then don't output the continuation mark; otherwise, output a continuation mark using the `\SBContinueTag` command.

```
636 \newcommand{\SBContinueMark}{%
637   \setbox0=\hbox{\rightmark}
638   \ifthenelse{\lengthtest{\wd0 = 0pt}}
639     {\relax}%
640     {\SBContinueTag}%
641   }
642
```

`\OHContPgFtr` `\OHContPgFtr` — macro to print page footing continuation headers on overheads.

Parameters:  
None.

This macro must be manually inserted where needed. It is generally used in conjunction with the `\OHPageBrk` and `\OHPageHdr` macros. `\OHContPgFtr` is a no-op, except when `\ifOverhead` is true.

```
643 \newcommand{\OHContPgFtr}{%
644   \ifOverhead
645     \vskip .25in
646     \centerline{\SB0HContTagFont\OHContPgFtrTag}
647   \else%
648     \relax%
649   \fi}
```

`\OHContPgHdr` `\OHContPgHdr` — macro to print page heading continuation headers on overheads.

Parameters:  
None.

This macro must be manually inserted where needed. It is generally used in conjunction with the `\OHPageBrk` macro. `\OHContPgHdr` is a no-op, except when `\ifOverhead` is true.

```
650 \newcommand{\OHContPgHdr}{%
651   \ifOverhead
652     \centerline{\SB0HContTagFont\OHContPgHdrTag}
653     \vskip .25in
654   \else%
655     \relax%
656   \fi}
657
```

### 14.8.3 Table Of Contents & Indices

The macros used to create the *Key Index*, the *Title & First Line Index*, and the **Table Of Contents**. Planned enhancements are the addition of a *Scripture Index* and a *Artist Index*; i.e., an index of the `\ScriptRef{}` and `\WandM{}` entries, respectively.

Most of the specific code involved in managing the index files and writing the entries was copied from `latex.tex` (version 2.09) and then modified to suit our purposes here.

```
658 %=====
659 %          T A B L E   O F   C O N T E N T S          %
660 %                                                    %
661 %          A N D   I N D I C E S          %
662 %=====
```

`\makeArtistIndex` `\makeArtistIndex` starts the creation of an index of artists.

Parameters:  
None.

```
663 \def\makeArtistIndex{\if@filesw \newwrite\@artistIndexfile
664   \immediate\openout\@artistIndexfile=\jobname.aIdx
665   \def\artistIndex{\@bsphack\beginingroup
```

```

666         \def\protect####1{\string####1\space}\@sanitize
667         \wrArtistIndex}\typeout
668 {Writing index file \jobname.aIdx }\fi}
669

```

`\artistIndex` `\artistIndex[⟨1⟩][⟨2⟩]` makes an entry in the index of songs by artist.

Parameters:

- ⟨1⟩ Song artist.
- ⟨2⟩ Song title and number.

```

670 \def\wrArtistIndex#1#2{\let\thepage\relax
671 \xdef\gtempa{\write\artistIndexfile{\string
672 \indexentry{#1}{#2}}}\endgroup\gtempa
673 \if@nbreak \ifvmode\nobreak\fi\fi\@esphack}
674
675 \def\artistIndex{\@bsphack\beginngroup \@sanitize\@artistIndex}
676
677 \def\@artistIndex#1#2{\endgroup\@esphack}
678

```

`\makeKeyIndex` `\makeKeyIndex` starts the creation of an index of songs by key.

Parameters:

None.

```

679 \def\makeKeyIndex{\if@filesw \newwrite\@keyIndexfile
680 \immediate\openout\@keyIndexfile=\jobname.kIdx
681 \def\keyIndex{\@bsphack\beginngroup
682 \def\protect####1{\string####1\space}\@sanitize
683 \wrKeyIndex}\typeout
684 {Writing index file \jobname.kIdx }\fi}
685

```

`\keyIndex` `\keyIndex[⟨1⟩][⟨2⟩]` makes an entry in the index of songs by key.

Parameters:

- ⟨1⟩ Song key and title.
- ⟨2⟩ Song number.

```

686 \def\wrKeyIndex#1#2{\let\thepage\relax
687 \xdef\gtempa{\write\@keyIndexfile{\string
688 \indexentry{#1}{#2}}}\endgroup\gtempa
689 \if@nbreak \ifvmode\nobreak\fi\fi\@esphack}
690
691 \def\keyIndex{\@bsphack\beginngroup \@sanitize\@keyIndex}
692
693 \def\@keyIndex#1#2{\endgroup\@esphack}
694

```

`\makeTitleIndex` `\makeTitleIndex` starts creation of a title & first line index.

Parameters:

None.

```

695 \def\makeTitleIndex{\if@filesw \newwrite\@titleIndexfile
696 \immediate\openout\@titleIndexfile=\jobname.tIdx
697 \def\titleIndex{\@bsphack\beginngroup
698 \def\protect####1{\string####1\space}\@sanitize
699 \wrTitleIndex}\typeout
700 {Writing index file \jobname.tIdx }\fi}
701

```

`\titleIndex` `\titleIndex[⟨1⟩][⟨2⟩]` makes an entry in the title & first line index.

Parameters:

- ⟨1⟩ Song title or first line.
- ⟨2⟩ Song number.

```

702 \def\wrTitleIndex#1#2{\let\thepage\relax
703 \xdef\gtempa{\write\@titleIndexfile{\string
704 \indexentry{#1}{#2}}}\endgroup\gtempa
705 \if@nbreak \ifvmode\nobreak\fi\fi\@esphack}
706

```

```

707 \def\titleIndex{\@bsphack\begingroup \@sanitize\@titleIndex}
708
709 \def\@titleIndex#1#2{\endgroup\@esphack}
710

```

`\makeTitleContents` `\makeTitleContents` starts creation of a table of contents.

Parameters:

None.

```

711 \def\makeTitleContents{\if@filesw \newwrite\@titleContentsfile
712 \immediate\openout\@titleContentsfile=\jobname.toc
713 \def\titleContents{\@bsphack\begingroup
714 \def\protect####1{\string####1\space}\@sanitize
715 \@wrTitleContents}\typeout
716 {Writing table of contents file \jobname.toc }\fi}
717

```

`\titleContents` `\titleContents` [*1*] [*2*] makes an entry in the table of contents file.

Parameters:

*1*) Song number.

*2*) Song title.

```

718 \def\@wrTitleContents#1#2{\let\thepage\relax
719 \xdef\@gtempa{\write\@titleContentsfile{\string
720 \item\theSBSongCnt.#1\protect\hbox{\, \thepage}}}\endgroup\@gtempa
721 \if@nobreak \ifvmode\nobreak\fi\fi\@esphack}
722
723 \def\titleContents{\@bsphack\begingroup \@sanitize\@titleContents}
724
725 \def\@titleContents#1#2{\endgroup\@esphack}
726

```

`\SBtocSEntry` `\SBtocSEntry` is the macro that encloses each skipped song TOC entry. The intent is that when you format your skipped TOC list you redefine `\SBtocSEntry` appropriately (assuming you are not happy with the default value).

Parameters:

*1*) Song number.

*2*) Song title.

*3*) Page number.

```

727 \newcommand{\SBtocSEntry}[3]{#1. \textit{#2}\hbox{\, #3}}
728

```

`\makeTitleContentsSkip` `\makeTitleContentsSkip` starts creation of a table of contents of songs excluded from the songbook.

Parameters:

None.

```

729 \def\makeTitleContentsSkip{\if@filesw \newwrite\@titleContentsSkipfile
730 \immediate\openout\@titleContentsSkipfile=\jobname.tocS
731 \def\titleContentsSkip{\@bsphack\begingroup
732 \def\protect####1{\string####1\space}\@sanitize
733 \@wrTitleContentsSkip}\typeout
734 {Writing table of contents (skipped) file \jobname.tocS }\fi}
735

```

`\titleContentsSkip` `\titleContentsSkip` [*1*] [*2*] makes an entry in the table of contents file.

Parameters:

*1*) Song number.

*2*) Song title.

```

736 \def\@wrTitleContentsSkip#1#2{\let\thepage\relax
737 \xdef\@gtempa{\write\@titleContentsSkipfile{\string
738 \item\protect\SBtocSEntry{\theSBSongCnt}{#1}{\thepage}}}\endgroup\@gtempa
739 \if@nobreak \ifvmode\nobreak\fi\fi\@esphack}
740
741 \def\titleContentsSkip{\@bsphack\begingroup \@sanitize\@titleContentsSkip}
742
743 \def\@titleContentsSkip#1#2{\endgroup\@esphack}
744

```

`\FLineIdx` `\FLineIdx[⟨1⟩]` adds a first line of song entry to the song & title index file (.idx).

Parameters:

⟨1⟩ First line of song.

```
745 \newcommand{\FLineIdx}[1]{\titleIndex{#1@{\it #1/}}{\theSBSongCnt}}
746
```

#### 14.8.4 Some Other Hooks

The macros have been provided to allow the user additional control of songbooks created by the Songbook package.

```
747 %%=====
748 %%          S O M E   O T H E R   H O O K S          %
749 %%=====
750
```

`\SBChorusMarkright` The `\SBChorusMarkright[⟨1⟩]` hook to allow `\SBSection`'s `\markright` to be overridden.

```
751 \newcommand{\SBChorusMarkright}[1]{\markright{#1}}
752
```

`\SBVerseMarkright` The `\SBVerseMarkright[⟨1⟩]` hook to allow `\SBVerse`'s `\markright` to be overridden.

```
753 \newcommand{\SBVerseMarkright}[1]{\markright{#1}}
754
```

`\SBSectionMarkright` The `\SBSectionMarkright[⟨1⟩]` hook to allow `\SBSection`'s `\markright` to be overridden.

```
755 \newcommand{\SBSectionMarkright}[1]{\markright{\alph{#1}}}
756
```

`\SongMarkboth` The `\SongMarkboth[⟨1⟩][⟨2⟩]` hook to allow the song environment's `\markboth` to be overridden.

```
757 \newcommand{\SongMarkboth}[2]{\markboth{#1}{#2}}
758
```

`\STitleMarkboth` The `\STitleMarkboth[⟨1⟩][⟨2⟩]` hook to allow `\Stitle`'s `\markboth` to be overridden.

```
759 \newcommand{\STitleMarkboth}[2]{\markboth{#1}{#2}}
760
```

#### 14.8.5 Miscellaneous Macros

This section contains a few miscellaneous macros used by the main macros that then follow.

```
761 %%=====
762 %%          M I S C E L L A N E O U S   M A C R O S          %
763 %%=====
764
```

`\CpyRt` The `\CpyRt[⟨1⟩][⟨2⟩][⟨3⟩]` copyright info. macro definition.

Parameters:

⟨1⟩ Centre this line Y/N? (optional)

⟨2⟩ Copyright information.

⟨3⟩ Copyright licensing information.

This command is not usually explicitly used in a songbook. It is called by the `song` environment and will normally only be used there.

The first parameter to this macro is optional and is used to suppress the centering of the Scripture reference (i.e., if the parameter is specified, and that value is *not* 'Y' then the center environment will not be created around the reference.



```

765 \newcommand{\CpyRt}[3][Y]{%
766   \if#1Y\begin{center}\fi
767   \if\blank{#2}%
768     \if\blank{#3}%
769       {\CpyRtFont\copyright \SBUnknownTag{ } \CpyRtInfoFont}%
770     \else
771       {\CpyRtFont\copyright \SBUnknownTag{ } \CpyRtInfoFont #3}%
772     \fi%
773   \else%
774     \ifthenelse{\equal{#2}{\SBPubDom}}
775       {%then
776         {\CpyRtFont #2 \CpyRtInfoFont #3}%
777       }{%else
778         {\CpyRtFont\copyright #2 \CpyRtInfoFont #3}%
779       }%fi
780   \fi%
781 \if#1Y\end{center}\fi
782 }
783

```

`\ScriptRef` The `\ScriptRef [⟨1⟩] [⟨2⟩]` macro indicates a scripture reference.

Parameters:

- ⟨1⟩ Centre this line Y/N? (optional)
- ⟨2⟩ Address of scripture reference for the song.

Used to indicate a scripture reference for the song. May either be the scripture being quoted in the song, or a scripture which supports the theology presented in the song.

The first parameter to this macro is optional and is used to surpress the centering of the Scripture reference (i.e., if the parameter is specified, and that value is *not* ‘Y’ then the center environment will not be created around the reference.

```

784 \newcommand{\ScriptRef}[2][Y]{%
785   \if#1Y\begin{center}\fi
786   {\ScriptRefFont #2}%
787   \if#1Y\end{center}\fi
788 }
789

```

`\WAndM` The `\WAndM [⟨1⟩] [⟨2⟩]` macro indicates Words and Music authorship.

Parameters:

- ⟨1⟩ Centre this line Y/N? (optional)
- ⟨2⟩ Name(s) of the composer and lyricist.

This command is not usually explicitly used in a songbook. It is called by the song environment and will normally only be used there.

The first parameter to this macro is optional and is used to surpress the centering of the composer & lyricist (i.e., if the parameter is specified, and that value is *not* ‘Y’ then the center environment will not be created around the composer & lyricist.

```

790 \newcommand{\WAndM}[2][Y]{%
791   \if#1Y\begin{center}\fi
792   \if\blank{#2}%
793     {\WandMFont\SBWAndMTag ~\SBUnknownTag}%
794   \else
795     {\WandMFont\SBWAndMTag ~#2}%
796   \fi
797   \if#1Y\end{center}\fi
798 }
799

```

`\sbSetsbBaselineSkipAmt` `\sbSetsbBaselineSkipAmt` sets the `\sbBaselineSkipAmt` length.

Parameters:

None.

This command is only used internally within the songbook style. It is invoked just prior to any use of the `sbBaselineSkipAmt` length and it calculated the proper

value based upon all the fonts chosen at that particular moment in time. It does this by creating an `\hbox{}` that contains one letter with a chord overtop of it; the height and depth of that `\hbox{}` added together then become the baseline skip.

```

800 \newcommand{\sbSetsbBaselineSkipAmt}{
801   \ifChordBk%
802     \setbox0=\hbox{\strut\raise\SBChordRaise\hbox{\ChFont\sbChord{ }A\relax\strut}A}%
803     \setlength{\sbBaselineSkipAmt}{\ht0 + \dp0}%
804   \else%
805     \setlength{\sbBaselineSkipAmt}{\baselineskip}%
806   \fi%
807 }
808

```

### 14.8.6 Primary Songbook Macros

The macros in this section comprise those most often used by Songbook users.

```

809 %=====
810 %   P R I M A R Y   S O N G B O O K   M A C R O S   %
811 %=====
812

```

`\STitle` `\STitle[⟨1⟩][⟨2⟩][⟨3⟩]` is the song title macro.

Parameters:

- ⟨1⟩ Centre this line Y/N? (optional)
- ⟨2⟩ Song’s title.
- ⟨3⟩ Song’s Key.

Before printing the title we reset the `\SBVerseCnt` and `\SBSectionCnt` counters back to zero. This is for songs which are printed in more than one key, because the verse count always begins at “1.” for each key.

The first parameter to this macro is optional and is used to surpress the centering of the title (i.e., if the parameter is specified, and that value is *not* ‘Y’ then the center environment will not be created around the title.

This macro also makes an entry in the key index file; except in the case where a song is not being included, in which case no entry is made.

```

813 \newcommand{\STitle}[3][Y]{%
814   \setcounter{SBVerseCnt}{0}%
815   \setcounter{SBSectionCnt}{0}%
816   \ifExcludeSong\relax%
817     \else\keyIndex{\protect\sbChord#3\protect\relax} -- #2}{\theSBSongCnt}\fi%
818   \vspace{\SpaceAboveSTitle}%
819   \if#1Y\begin{center}\fi
820     {\STitleNumberFont\theSBSongCnt}{\STitleFont\ --- #2}%
821     \ifWordsOnly\relax\else{\STitleKeyFont\ [{\sbChord#3\relax}]\}\fi%
822   \if#1Y\end{center}\fi
823   \STitleMarkboth{#2}{\relax}%
824 }
825

```

`song` `song[⟨1⟩]... [⟨7⟩]` is the environment within which a song is entered.

Parameters:

- ⟨1⟩ Include song in book? (optional)
- ⟨2⟩ Title of song.
- ⟨3⟩ Key song is written in.
- ⟨4⟩ Copyright information.
- ⟨5⟩ Name(s) of composer and lyricist.
- ⟨6⟩ Scripture reference for the song.
- ⟨7⟩ Copyright licensing information.

The song environment encapsulates a song, including multiple appearances for multiple keys and translations. We increment the song counter and then cause the title and other parameter information to be displayed.

**Include Song In Book? (optional)** The first parameter is optional and its default value is “Y”. For simplicity this description refers to the field as  $\langle Include? \rangle$ . When the value of  $\langle Include? \rangle$  is “Y” then all processing is done normally. If the value of  $\langle Include? \rangle$  is (not “Y”) then:

- the songcounter is incremented;
- a TOC index entry is written to a skipped-entry files, with each entry bracketted by some extra code (compared to the non-skipped-entry files);
- consider making  $\langle Include? \rangle$  look for several values to allow exclusions/inclusions to only happen for certain types of songbooks.

The skipped-entry TOC file is named `*.tocS`. The purpose of creating a separate file is twofold: (1) to allow normal songbook processing to simply omit these not-included files; (2) to allow the skipped entries to be easily added back into the TOC processing process through simple appending of the files to the standard TOC file.

```

826 \newenvironment{song}[7][Y]{ % Comment markers to negate
827 \if#1Y\ExcludeSongfalse\else\ExcludeSongtrue\fi% the newline.
828 \ifPrintAllSongs\ExcludeSongfalse\fi %
829 \SongMarkboth{\relax}{\relax} %
830 \SBinSongEnvtrue %
831 \renewcommand{\SBinSongEnv}{\True} %
832 \ifWordsOnly %
833 \setlength{\parindent}{0pt} %
834 \fi %

```

Store each of the parameters in a macro to make them easily accessible later. This isn’t as useful as it should be due to my inability to properly detect in the title block macros whether or not the parameter is nil or blank when one of these  $\backslash$ the macros is passed instead of the native parameter itself.

We *clear* the translation macros now, since the `songTranslation` environment is only valid inside a `song` environment, and we are now declaring a new `song`.

```

835 \renewcommand{\theSongComposer}{#5} %
836 \if\blank{#5} %
837 \renewcommand{\theSongComposerU}{\SBUnknownTag}%
838 \else %
839 \renewcommand{\theSongComposerU}{#5} %
840 \fi %
841 \renewcommand{\theSongCopyRt}{#4} %
842 \renewcommand{\theSongKey}{#3} %
843 \renewcommand{\theSongLicense}{#7} %
844 \renewcommand{\theSongScriptRef}{#6} %
845 \renewcommand{\theSongTitle}{#2} %
846 \renewcommand{\theXlatnBy}{} %
847 \renewcommand{\theXlatnLang}{\SBBaseLang} %
848 \renewcommand{\theXlatnPerm}{} %
849 \renewcommand{\theXlatnTitle}{} %
850 %
851 \addtocounter{SBSongCnt}{1} %
852 %

```

Write table of contents and index entries in response to the user’s  $\langle Include? \rangle$  directive.

```

853 \ifExcludeSong %
854 \titleContentsSkip{\theSongTitle}{\theSongKey}%
855 \else %
856 \titleIndex{\theSongTitle}{\theSBSongCnt} %
857 \titleContents{\theSongTitle}{\theSongKey} %
858 \artistIndex{\theSongComposerU+\theSongTitle}{\theSBSongCnt}%
859 \fi %

```

Now we deal with the user’s  $\langle Include? \rangle$  directive. If  $\langle Include? \rangle$  is “Y” then we will cause normal songbook processing to occur; otherwise we’ll simply insert a `\relax` macro. I have implemented this feature using a memory hungry method:

when excluding a song, put the lyrics into `box2` and then discard it without using it. Although Mark Wooding suggested using this method, he also provided a pointer to a more robust method: using the `sverb` package that is part of 'mdwtools' collection (specifically, the `\ignoreenv{}` command).

```
860 \ifExcludeSong\setbox2=\vbox\bgroup\fi%
```

Try to keep the song title and all its contents on the same page; if that is what is desired.

```
861 \ifSamepageMode%
862   \begin{samepage}%
863   \fi%
```

Wherever you see a parameter used directly, and not the parameter macro just set, above, it is because I haven't figured out how the receiving macro can deal with accepting its input via a macro (and not via the native parameter). In general this is because the receiving macro is attempting to detect and empty or blank parameter.

The second parameter is used directly here when `\STitle` is invoked (instead of `\theSongKey`), because I can't figure out how to cause the sharp and flat substitution to occur within the context of the `\renewcommand` statement, above.

```
864 \begin{center}
865   \STitle[N]{\theSongTitle}{#3}\
866   \vspace{-.5ex}
867   \CpyRt[N]{#4}{#7}\
868   \vspace{-.5ex}
869   \WAndM[N]{#5}\
870   \if\given{#6}%
871     \vspace{-.75ex}
872     \ScriptRef[N]{\theSongScriptRef}\
873   \fi%
874 \end{center}%
875 \vspace{\SpaceAfterTitleBlk}
```

If we're in `compactsong` mode then put us into `multicols{2}` mode.

```
876 \ifCompactSongMode
877   \begin{multicols*}{2}
878     \raggedcolumns
879   \fi
880   \SBDefaultFont%
881   }%
```

This brings the `song` environment's open clause to a close.

The close clause now starts. We begin by closing out the `SamepageMode` and `CompactSongMode` environments, as applicable.

```
882 {\ifSamepageMode%
883   \end{samepage}%
884   \fi%
885 \ifCompactSongMode
886   \end{multicols*}
887 \fi
888 \ifSongEject%
889   \vfill\pagebreak%
890 \else%
891   \SpaceAfterSong\pagebreak[1]%
892 \fi%
```

Here's where we close out the *Include?* if-then-else. Note that we immediately clear `box2` before proceeding (an attempt to free up the memory we've just consumed).

```
893 \ifExcludeSong\egroup\setbox2=\hbox{}\fi%
894 \renewcommand{\SBinSongEnv}{\False}%
895 \SBinSongEnvfalse%
896 }
897
```

`\CBExcl` The `\CBExcl`, `\OHExcl`, `\WBExcl`, and `\WOExcl` macros exist to be passed as parameters to the `song` environment's `\Include?` parameter. The parameters cause the song to be excluded when processing the particular Songbook type:

`\WOExcl`

- `CBExcl` Exclude the song when in `chordk` mode
- `OHExcl` Exclude the song when in `overhead` mode
- `WBExcl` Exclude the song when in `wordbk` mode
- `WOExcl` Exclude the song when in either `wordbk` or `overhead` mode

Here's an example usage which shows a song to be excluded when in `chordbk` mode:

```

\documentclass{book}
\usepackage[chordbk]{songbook}

\begin{document}
  \begin{song}[\CBExcl]{title}{}{}{}{}
    some lyrics
  \end{song}
\end{document}

898 \newcommand{\CBExcl}{\ifChordBk N\else Y\fi}
899 \newcommand{\OHExcl}{\ifOverhead N\else Y\fi}
900 \newcommand{\WBExcl}{\ifWordBk N\else Y\fi}
901 \newcommand{\WOExcl}{\ifWordsOnly N\else Y\fi}

```

`xlatn` `xlatn` [*1*] [*2*] [*3*] is the old song-translation environment.

Parameters:

- 1*) Title of the translated song.
- 2*) Translation permission.
- 3*) Who performed the translation.

The `xlatn` environment is considered obsolete and will be removed from a future release of the Songbook macros.

The `xlatn` environment always occurs within a song environment. We reset the verse counter then cause the title and other parameter information to be displayed.

```

902 \newenvironment{xlatn}[3]{% Comment marker negates the newline.
903     \renewcommand{\theXlatnBy}{#3}%
904     \renewcommand{\theXlatnPerm}{#2}%
905     \renewcommand{\theXlatnTitle}{#1}%
906     %
907     \titleIndex{\theXlatnTitle}{\theSBSongCnt}%
908     \titleContents{\theXlatnTitle}{\theSongKey}%
909     %
910     \begin{center}
911         \STitle[N]{\theXlatnTitle}{\theSongKey}\\
912         \CpyRt[N]{\theSongCopyRt}{\theSongLicense}\\
913         \if\nil{#2}%
914             \relax%
915         \else%
916             \vspace{-.5ex}
917             {\CpyRtFont\theXlatnPerm}\\
918             \fi
919         \if\nil{#3}%
920             \relax%
921         \else%
922             \vspace{-.5ex}
923             {\CpyRtFont\theXlatnBy}\\
924             \fi
925         \end{center}%
926     %
927     \setcounter{SBVerseCnt}{0}%
928     \setcounter{SBSectionCnt}{0}%
929 }{\relax}

```

`songTranslation` `songTranslation[⟨1⟩][⟨2⟩][⟨3⟩]` is the song-translation environment.

Parameters:

- ⟨1⟩ Language of translated song.
- ⟨2⟩ Title of the translated song.
- ⟨3⟩ Translation permission.
- ⟨4⟩ Who performed the translation.

The `songTranslation` environment always occurs within a `song` environment. We reset the verse counter then cause the title and other parameter information to be displayed.

The `xlatn` environment was the original song translation environment, but with the addition of an additional parameter (the “Language of translated song.” parameter) it made most sense to create a new environment which simply deals with the new parameter and then calls the old environment. At some point in the future, when the `xlatn` environment is removed, the `xlatn` code will be moved here.

```
930 \newenvironment{songTranslation}[4]{% Comment marker negates the newline.
931     \renewcommand{\theXlatnBy}{#4}%
932 \begin{xlatn}{#2}{#3}{#4}%
933 }{\end{xlatn}}
```

`\sbChord` `\sbChord` changes a sequence of characters into a chord.

Parameters:

- ⟨1⟩ Chord.

The original version of this function was written by Philip Hirschhorn <psh@math.mit.edu> or <phirschhorn@lucy.wellesley.edu>.

Scan the sequence of characters in Chord. Replace ‘#’ characters with ♯’s and ‘b’ characters with b. This produces more realistic looking chord symbols (which also take up less space than their phoney counterparts). We also look for ‘/’ characters, and insert a `\ChBassFont` command into the stream when a ‘/’ is found. This makes the bass note of the chord to appear in a smaller font.

```
934 \def\sbChord#1{%
935     \ifx#1\relax%
936     \let\next=\relax%
937     \else%
938     \ifx#1##% double sharp because we're inside a \def
939     $\sharp$%
940     \else%
941     \ifx#1b%
942     $\flat$%
943     \else%
944     \ifx#1/%
945     \ChBassFont /%
946     \else%
947     \ifx#1[%
948     \bgroup\ChBkFont [\egroup%
949     \else%
950     \ifx#1]%
951     \bgroup\ChBkFont ]\egroup%
952     \else%
953     #1%
954     \fi%
955     \fi%
956     \fi%
957     \fi%
958     \fi%
959     \let\next=\sbChord%
960     \fi%
961     \next%
962 }
963
```

`\Ch` `\Ch[⟨1⟩][⟨2⟩]` is the chord over lyrics macro.

`\ChX` `\ChX` is the Chord over lyrics macro, but deleting trailing spaces.

`\Chr` `\Chr` is the Chord over lyrics macro, but inserting a rule, when necessary.

Parameters:

⟨1⟩ Chord.

⟨2⟩ Syllable that chord is to be left justified over.

The words-only style file turns off the chord generation and just prints the second parameter.

The `\ChX` version of this macro is used for the benefit of the words-only style to ensure that spaces following the macro are removed. For example, an interword space containing a couple of extra chords would be written as (this is not usually necessary, but sometimes there is no other way to eliminate spurious white space from a words-only songbook):

```
\ChX{D7}{ing} \ChX{E}{ } \ChX{D}{ } \Ch{A}{You}
```

The `\Chr` version of this macro inserts a rule, at the height specified by the `\SBRuleRaiseAmount` macro, when the chord is wider than the syllable. The default value creates an extended em-dash-like rule; a value of 0pt creates an underbar-like rule. More details about the `\Chr` command follow below, just preceding its definition.

This code is based on macros from Olivier Biot's (<http://www.biot.yucom.be/>) `chord.sty` file. Changes made by me:

- removed annoying space between `\SBIntersyllableRules` when they butt up against one another
- changed the default `\ChordRaise` value to something closer to what my previous version of the `\Ch` command used to set
- renamed the commands: `\@` to `\Ch`, and `\@@` to `\Chr`
- renamed the variables used to adjust `\Ch`'s behaviour, to ensure no conflict exists with Olivier's macro.

```
964 \newcommand{\Ch}[2]{%
965   \ifChordBk%
966     \setbox1=\hbox{\ChFont\sbChord#1\relax\strut}%
967     \setbox0=\hbox{#2}%
968     \ifdim\wd1<\wd0%
969       \strut\raise\SBChordRaise\copy1\kern-\wd1\copy0%
970     \else%
971       \strut\copy0\kern-\wd0\strut\raise\SBChordRaise\copy1%
972     \fi%
973   \else%
974     #2%
975   \fi}}
976
```

The `\ChX` code.

```
977 \newcommand{\ChX}[2]{%
978   \ifWordsOnly%
979     \if\nil{#2}%
980       \ignorespaces%
981     \else%
982       #2%
983     \fi%
984   \else%
985     \Ch{#1}{#2}%
986   \fi}
987
```

The `\Chr` code and a detailed macro description & definition.

We start with some internal scratch variables. Any value they have prior to `\Chr`'s execution will be discarded each time.

```
988 \newlength{\chCriticDim}
989 \newlength{\chSpaceDim}
```

```

DEF\Chr#1#2
BEGIN
  \box1 == \hbox{... #1 --> Chord ...}
  \box0 == \hbox{... #2 --> Syllable ...}
  \chCriticDim == \wd0 - \chSpaceTolerance - 2 \chMiniSpace
  IFF \wd1 > \chCriticDim
    \chCriticDim == \wd1 - \wd0 - \chSpaceTolerance - 2 \chMiniSpace
    IFF \chCriticDim > 0mm
      \chSpaceDim == \wd1 - \wd0 + \chSpaceTolerance
    ELSE
      \chSpaceDim == \chSpaceTolerance
    FFI
    \chCriticDim == \chSpaceDim - 2 \chSpaceTolerance
    \raise \SBChordRaise \copy1 \kern - \wd1
    IFF \wd0 == 0mm
      \kern - 2 \chMiniSpace
    FFI
    \copy0
    \hbox to \chCriticDim{\hss\raise\SBRuleRaiseAmount
      \hbox to \chSpaceDim{\SBIntersyllableRule}\hss}
  ELSE
    \raise \SBChordRaise \copy1 \kern - \wd1 \copy0
  FFI
END

990 \newcommand{\Chr}[2]{%
991   \ifChordBk
992     \setbox1=\hbox{\ChFont\sbChord#1\relax\strut}%
993     \setbox0=\hbox{#2}%
994     \setlength{\chCriticDim}{\wd0 - \chSpaceTolerance}%
995     \advance\chCriticDim by 2\chMiniSpace%
996     \ifdim\wd1>\chCriticDim%
997       \chCriticDim \wd1%
998       \advance\chCriticDim by -\wd0%
999       \advance\chCriticDim by -\chSpaceTolerance%
1000      \advance\chCriticDim by -2\chMiniSpace%
1001      \ifdim\chCriticDim>0mm%
1002        \chSpaceDim \wd1%
1003        \advance\chSpaceDim by -\wd0%
1004        \advance\chSpaceDim by \chSpaceTolerance%
1005      \else%
1006        \chSpaceDim\chSpaceTolerance%
1007      \fi%
1008      \chCriticDim \chSpaceDim%
1009      \advance\chCriticDim by 2\chMiniSpace%
1010      \strut\raise\SBChordRaise\copy1\kern-\wd1\ifdim\wd0=0mm\kern-2\chMiniSpace\fi%
1011      \copy0\hbox to\chCriticDim{\hss%
1012        \raise\SBRuleRaiseAmount\hbox to\chSpaceDim{\SBIntersyllableRule}\hss}%
1013    \else%
1014      \strut\raise\SBChordRaise\copy1\kern-\wd1%
1015      \copy0%
1016    \fi%
1017  \else%
1018    #2%
1019  \fi}%
1020 }
1021

```

`\SBMargNote` `\SBMargNote[⟨1⟩]` creates a Songbook marginal note.

Parameters:

⟨1⟩ Text of note to place in margin.

Used to place a note of some kind in the margin of a songbook, or within a footnote when in `CompactSong` mode. In words-only mode this macro is a no-op.

If we are excluding a song then we have `\SBMargNote` take no action. We do this to be sure that no footnotes are generated, and to prevent the error that will occur from attempting to use the `\marginpar` command within a `\vbox{}`.

```

1022 \newcommand{\SBMargNote}[1]{%
1023   \ifExcludeSong%

```



```

1024 \relax%
1025 \else\ifWordsOnly%
1026 \relax%
1027 \else\ifCompactSongMode%
1028 \footnote{\SBMargNoteFont{#1}}%
1029 \else%
1030 \marginpar{\begin{flushleft}\SBRefFont{#1}\end{flushleft}}%
1031 \fi\fi\fi}
1032

```

`\SBRef` `\SBRef` creates a song reference in the margin.

Parameters:

- ⟨1⟩ Songbook/CD/tape name.
- ⟨2⟩ Page/Song number within book referenced by ⟨1⟩, or tape/CD publisher info.

Used to indicate a source for the full SATB music for this song, or what CD/cassette the song can be found on. In words-only mode this macro is a no-op. This normally appears in the margin of the songbook, but in `CompactSong` mode the information appears in a footnote that is always numbered ‘0’ (even if there is more than one reference in a song).

If we are excluding a song then we have `\SBRef` take no action. We do this to be sure that no footnotes are generated, and to prevent the error that will occur from attempting to use the `\marginpar` command within a `\vbox{}`.

```

1033 \newcommand{\SBRef}[2]{%
1034 \ifExcludeSong%
1035 \relax%
1036 \else\ifWordsOnly%
1037 \relax%
1038 \else\ifCompactSongMode%
1039 \footnotetext[0]{\SBRefFont{\em #1}, {#2}.}}%
1040 \else%
1041 \marginpar{\begin{flushleft}\SBRefFont{\em #1}, {#2}.\end{flushleft}}%
1042 \fi\fi\fi}
1043

```

`SBVerse` The `SBVerse` and `SBVerse*` environments encapsulate a verse.

`SBVerse*` Parameters:

None.

Very much like `LATEX`’s `verse` environment, except that here the verses are numbered. The indent amount for lines that are too long is set with the `\HangAmt` command (see the constant definitions at the top of this document).

A version of this command which indents but down not place an `\SBVerseCnt` before the chorus is available as `SBVerse*`. Similar to `LATEX`’s `\section*` command, the verse counter is not incremented either.

```

1044 \newenvironment{SBVerse}{%
1045 \sbSetsbBaselineSkipAmt%
1046 \bgroup%
1047 \addtocounter{SBVerseCnt}{1}%
1048 \SBVerseMarkright{\theSBVerseCnt}%
1049 \begin{list}{\SBVerseNumberFont\theSBVerseCnt .}%
1050 {\setlength{\leftmargin}{\LeftMarginSBVerse + \HangAmt}
1051 \setlength{\itemindent}{-\HangAmt}
1052 \setlength{\listparindent}{-\HangAmt}
1053 \setlength{\parsep}{\Opt}
1054 \setlength{\baselineskip}{\sbBaselineSkipAmt}
1055 }%
1056 \item}
1057 {\end{list}}%
1058 \egroup%
1059 \SpaceAfterVerse}
1060

```

The `SBVerse*` code. Coding of this environment courtesy of Herbert Martin Dietze <herbert@fh-wedel.de>.

```

1061 \newenvironment{SBVerse*}{%
1062   \sbSetsbBaselineSkipAmt%
1063   \bgroup%
1064   \begin{list}{\{SBVerseNumberFont }}
1065     {\setlength {\leftmargin}   {\LeftMarginSBVerse + \HangAmt}
1066      \setlength{\itemindent}    {-\HangAmt}
1067      \setlength{\listparindent}{-\HangAmt}
1068      \setlength{\parsep}       {Opt}
1069      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1070     }%
1071     \item}
1072 {\end{list}}%
1073 \egroup%
1074 \SpaceAfterVerse}
1075

```

**SBSection** The SBSection and SBSection\* environments encapsulate a section.

**SBSection\*** Parameters:  
None.

Very much like L<sup>A</sup>T<sub>E</sub>X's verse environment, except that here the sections are numbered. The indent amount for lines that are too long is set with the `\HangAmt` command (see the constant definitions at the top of this file).

A version of this command which indents but doesn't place an `\SBSectionCnt` before the chorus is available as `SBSection*`. Similar to L<sup>A</sup>T<sub>E</sub>X's `\section*` command, the section counter is not incremented either.

```

1076 \newenvironment{SBSection}{%
1077   \sbSetsbBaselineSkipAmt%
1078   \bgroup%
1079   \addtocounter{SBSectionCnt}{1}%
1080   \SBSectionMarkright{SBSectionCnt}
1081   \begin{list}{\{SBSectionNumberFont\alph{SBSectionCnt}}}}
1082     {\setlength {\leftmargin}   {\LeftMarginSBSection + \HangAmt}
1083      \setlength{\itemindent}    {-\HangAmt}
1084      \setlength{\listparindent}{-\HangAmt}
1085      \setlength{\parsep}       {Opt}
1086      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1087     }%
1088     \item}
1089 {\end{list}}%
1090 \egroup%
1091 \SpaceAfterSection}
1092

```

The `SBSection*` code. Coding of this environment courtesy of Herbert Martin Dietze <herbert@fh-wedel.de>.

```

1093 \newenvironment{SBSection*}{%
1094   \sbSetsbBaselineSkipAmt%
1095   \bgroup%
1096   \begin{list}{\{SBSectionNumberFont }}
1097     {\setlength {\leftmargin}   {\LeftMarginSBSection + \HangAmt}
1098      \setlength{\itemindent}    {-\HangAmt}
1099      \setlength{\listparindent}{-\HangAmt}
1100      \setlength{\parsep}       {Opt}
1101      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1102     }%
1103     \item}
1104 {\end{list}}%
1105 \egroup%
1106 \SpaceAfterSection}
1107

```

**\SBChorus** The SBChorus and SBChorus\* environments encapsulate a chorus.

**\SBChorus\*** Parameters:  
None.

Very much like L<sup>A</sup>T<sub>E</sub>X's verse environment, except that here a `\SBChorusTag` tag is inserted to demark the start of the chorus. The indent amount for lines that

are too long is set with the `\HangAmt` command (see the constant definitions at the top of this file).

A version of this command which indents but does not place a `\SBChorusTag` before the chorus is available as `SBChorus*`.

```

1108 \newenvironment{SBChorus}{%
1109   \sbSetsbBaselineSkipAmt%
1110   \bgroup%
1111   \SBChorusMarkright{\SBChorusTag}
1112   \begin{list}{\SBChorusTagFont\SBChorusTag}}
1113     {\setlength {\leftmargin}   {\LeftMarginSBChorus + \HangAmt}
1114      \setlength{\itemindent}    {-\HangAmt}
1115      \setlength{\listparindent}{-\HangAmt}
1116      \setlength{\parsep}       {Opt}
1117      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1118     }%
1119     \item}
1120 {\end{list}}%
1121 \egroup%
1122 \SpaceAfterChorus%
1123 }
1124

```

The `SBChorus*` code. Coding of this environment courtesy of Herbert Martin Dietze <herbert@fh-wedel.de>.

```

1125 \newenvironment{SBChorus*}{%
1126   \sbSetsbBaselineSkipAmt%
1127   \bgroup%
1128   \begin{list}{\SBChorusTagFont }}
1129     {\setlength {\leftmargin}   {\LeftMarginSBChorus + \HangAmt}
1130      \setlength{\itemindent}    {-\HangAmt}
1131      \setlength{\listparindent}{-\HangAmt}
1132      \setlength{\parsep}       {Opt}
1133      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1134     }%
1135     \item}
1136 {\end{list}}%
1137 \egroup%
1138 \SpaceAfterChorus}
1139

```

`\SBOpGroup` `\SBOpGroup` identifies an open chorus/verse.

Parameters:

None.

This environment is akin to `SBChorus`, except that no tag and no indentation is performed. This environment serves two purposes:

1. Identify a verse or chorus that is unmarked (by way of a tag) and the left margin of the block is not indented.
2. Puts the verse or chorus in a list environment so that wrapping lines are properly indented.

```

1140 \newenvironment{SBOpGroup}{%
1141   \sbSetsbBaselineSkipAmt%
1142   \bgroup%
1143   \begin{list}{\hbox{}}
1144     {\setlength {\leftmargin}   {\HangAmt}
1145      \setlength{\itemindent}    {-\HangAmt}
1146      \setlength{\listparindent}{-\HangAmt}
1147      \setlength{\topsep}       {Opt}
1148      \setlength{\parsep}       {Opt}
1149      \setlength{\labelwidth}   {Opt}
1150      \setlength{\labelsep}     {Opt}
1151      \setlength{\baselineskip} {\sbBaselineSkipAmt}
1152     }%
1153     \item}
1154 {\end{list}}%

```

```

1155 \egroup%
1156 \SpaceAfterOpGroup}
1157

```

`\SBBridge` `\SBBridge[⟨1⟩]` identifies a bridge.

Parameters:  
 ⟨1⟩ The Bridge.

This command is used to encapsulate a bridge that occurs in a song. In words-only mode this command is a no-op.

```

1158 \newcommand{\SBBridge}[1]{%
1159   \ifWordsOnly%
1160   \relax%
1161   \else%
1162     \sbSetsbBaselineSkipAmt%
1163     \bgroup%
1164     \begin{list}{\SBBridgeTagFont\SBBridgeTag}}
1165       {\setlength{\leftmargin}{\LeftMarginSBChorus}%
1166        \setlength{\parsep}{Opt}
1167        \setlength{\baselineskip}{\sbBaselineSkipAmt}
1168        }%
1169       \item #1
1170     \end{list}%
1171   \egroup\par
1172 \fi}
1173

```

`\SBEnd` `\SBEnd[⟨1⟩][⟨2⟩]` identifies a song ending.

Parameters:  
 ⟨1⟩ Display in words-only? (optional)  
 ⟨2⟩ The Ending.

This command is used to encapsulate the ending of a song. If the first parameter is not specified, or if it is ‘N’, then in words-only mode this command is a no-op.

```

1174 \newcommand{\SBEnd}[2][N]{%
1175   \ifthenelse{\equal{\ifWordsOnly Y}{Y}}
1176   \and \equal{N}{#1}}%
1177   {\relax}%
1178   {\sbSetsbBaselineSkipAmt%
1179   \bgroup%
1180   \begin{list}{\SBEndTagFont\SBEndTag}}
1181     {\setlength{\leftmargin}{\LeftMarginSBChorus}
1182      \setlength{\parsep}{Opt}
1183      \setlength{\baselineskip}{\sbBaselineSkipAmt}
1184      }%
1185     \item #2
1186   \end{list}%
1187   \egroup\par}
1188 }
1189

```

`\SBIIntro` `\SBIIntro[⟨1⟩][⟨2⟩]` identifies an introduction.

Parameters:  
 ⟨1⟩ Display in words-only? (optional)  
 ⟨2⟩ The Introduction.

This command is used to encapsulate an introduction to a song. If the first parameter is not specified, or if it is ‘N’, then in words-only mode this command is a no-op.

```

1190 \newcommand{\SBIIntro}[2][N]{%
1191   \ifthenelse{\equal{\ifWordsOnly Y}{Y}}
1192   \and \equal{N}{#1}}%
1193   {\relax}%
1194   {\sbSetsbBaselineSkipAmt%
1195   \bgroup%
1196   \begin{list}{\SBIIntroTagFont\SBIIntroTag}}%

```

```

1197     {\setlength {\leftmargin}  {\LeftMarginSBChorus}%
1198     \setlength{\parsep}      {0pt}
1199     \setlength{\baselineskip}{\sbBaselineSkipAmt}
1200     }%
1201     \item #2
1202     \vspace{-\topsep}%\vspace{-\partopsep}%
1203 \end{list}%
1204 \egroup\par}%
1205 }
1206

```

**SBBacket** The **SBBacket** [*1*] and **SBBacket** [*1*] environments encapsulates a bracketed  
**SBBacket\*** versicle.

Parameters:

*1* Some tag is inserted before the bracket to indicate the significance of the bracketed area.

There are two versions of this environment: **SBBacket** and **SBBacket\***. They operate identically, except that the \*ed version doesn't print its tag and bracket in words-only modes.

This is a more versatile, and better formatted version of **SBBridge**, **SBOccurs**, etc.; and it is recommended that this be used in the others place.

Starting in version 4.0 of the style, the left-hand indentation of this environment has been chosen such that the **SBVerse**, **SBChorus**, and **SBBacket** song-words all align against the same left margin when printing standard words & chords songbooks.

```

1207 \newenvironment{SBBacket}[1]{%
1208   \SpaceBeforeSBBacket
1209   \sbSetsbBaselineSkipAmt%
1210   \setbox0=\hbox to \LeftMarginSBBacket{\parbox{\LeftMarginSBBacket}%
1211     {\flushright{\hspace{0pt}\SBBacketTagFont #1}}}%
1212   \hbox\bgroup%
1213   \rightskip=\LeftMarginSBBacket%
1214   $\raisebox{1.25ex}{\copy0}%
1215   \left\lbrack%
1216   \vcenter\bgroup%
1217     \begin{list}{\hbox{}}%
1218       {\setlength {\leftmargin}  {\HangAmt + 0.5em}% This list
1219       \setlength{\rightmargin}  {\LeftMarginSBBacket}%
1220       \setlength{\itemindent}   {-\HangAmt}%          % been copied
1221       \setlength{\listparindent}{-\HangAmt}%          % verbatim from
1222       \setlength{\topsep}      {0pt}%                  % the SBOpGroup
1223       \setlength{\parsep}      {0pt}%                  % environment,
1224       \setlength{\labelwidth}  {0pt}%                  % above and then
1225       \setlength{\labelsep}    {0pt}%                  % modified slightly.
1226       \setlength{\baselineskip}{\sbBaselineSkipAmt}%
1227       }%
1228     \item%
1229   }{%
1230     \end{list}%
1231     \egroup%
1232     \right.$%
1233     \rightskip=0pt
1234   \egroup
1235   \SpaceAfterSBBacket
1236 }
1237

```

The **SBBacket\*** code.

```

1238 \newenvironment{SBBacket*}[1]{%
1239   \SpaceBeforeSBBacket
1240   \sbSetsbBaselineSkipAmt%
1241   \ifNotWordsOnly
1242     \setbox0=\hbox to \LeftMarginSBBacket{\parbox{\LeftMarginSBBacket}%
1243       {\flushright{\hspace{0pt}\SBBacketTagFont #1}}}%
1244     \hbox\bgroup%
1245     \rightskip=\LeftMarginSBBacket%
1246     $\raisebox{1.25ex}{\copy0}%

```

```

1247     \left\lbrack%
1248     \vcenter\bgroup%
1249 \fi
1250     \begin{list}{\hbox{}}%
1251         {\setlength {\leftmargin} {\HangAmt + 0.5em}% This list
1252          \setlength{\rightmargin} {\LeftMarginSBBracket}%
1253          \setlength{\itemindent} {-\HangAmt}% % been copied
1254          \setlength{\listparindent}{-\HangAmt}% % verbatim from
1255          \setlength{\topsep} {0pt}% % the SBOPGroup
1256          \setlength{\parsep} {0pt}% % environment,
1257          \setlength{\labelwidth} {0pt}% % above and then
1258          \setlength{\labelsep} {0pt}% % modified slightly.
1259          \setlength{\baselineskip} {\sbBaselineSkipAmt}%
1260         }%
1261         \item%
1262 }{%
1263     \end{list}%
1264 \ifNotWordsOnly
1265     \egroup%
1266     \right.$%
1267     \rightskip=0pt
1268 \egroup
1269 \fi
1270 \SpaceAfterSBBracket
1271 }
1272

```

**SB0ccurs** The `SB0ccurs[⟨1⟩]` environment encapsulates an occurrence.

Parameters:

⟨1⟩ Occurrence number(s). For example “1,3” would designate that this passage applies to the 1<sup>st</sup> and 3<sup>rd</sup> occurrences.

```

1273 \newenvironment{SB0ccurs}[1]{%
1274   {\SB0ccursTagFont #1\SB0ccursBrktFont []
1275   }
1276   {\SB0ccursBrktFont []}
1277

```

**SBExtraKeys** The `SBExtraKeys[⟨1⟩]` environment encapsulates extra song keys.

Parameters:

⟨1⟩ This parameter actually is used to either pass or not pass all the content of the environment on to the  $\LaTeX$ processor.

Songs are frequently listed in more than one key. This is ok for books with chords, however the words-only edition should only print one occurrence of a song. So, any extra keys are placed in a `SBExtraKey` environment. This allows them to be *shut off* when they’re not needed.

This was coded some years ago and I probably wouldn’t do it this way again; however, it works so I’m not inclined to *better* it.

```

1278 \newenvironment{SBExtraKeys}[1]{%
1279   \ifWordsOnly%
1280   \relax%
1281   \else%
1282   #1
1283   \fi}
1284 {}
1285

```

**\CBPageBrk** `\CBPageBrk[⟨1⟩]` generates a page break here if we’re in Chordbk mode.

Parameters:

⟨1⟩ Take effect in CompactSong mode too? (optional)

When we’re also in CompactSong mode we will only execute the page break if a parameter other than ‘N’ has been passed.

```

1286 \newcommand{\CBPageBrk}[1][N]{%
1287   \ifChordBk%
1288   \ifCompactSongMode

```

```

1289     \ifthenelse{\equal{#1}{N}}
1290     {\relax}
1291     {\vfill\pagebreak}
1292     \else
1293     \vfill\pagebreak
1294     \fi
1295 \fi}
1296

```

`\CSColBrk` `\CSColBrk` generates a column break here if we're in `compactsong` mode.

Parameters:  
None.

```

1297 \newcommand{\CSColBrk}{%
1298   \ifCompactSongMode%
1299   \columnbreak%
1300 \fi}
1301

```

`\NotWOPageBrk` `\NotWOPageBrk` generates a page break here if we're *not* in words-only mode.

Parameters:  
None.

```

1302 \newcommand{\NotWOPageBrk}{%
1303   \ifWordsOnly%
1304   \relax%
1305   \else%
1306   \pagebreak
1307 \fi}
1308

```

`\OHPageBrk` `\OHPageBrk` generates a page break here if we're in `overhead` mode.

Parameters:  
None.

```

1309 \newcommand{\OHPageBrk}{%
1310   \ifOverhead%
1311   \pagebreak
1312 \fi}
1313

```

`\WPPageBrk` `\WPPageBrk` generates a page break here if we're in `workbk` mode.

Parameters:  
None.

```

1314 \newcommand{\WPPageBrk}{%
1315   \ifWordBk%
1316   \pagebreak
1317 \fi}
1318

```

`\WOPageBrk` `\WOPageBrk` generates a page break here if we're in words-only mode.

Parameters:  
None.

```

1319 \newcommand{\WOPageBrk}{%
1320   \ifWordsOnly%
1321   \pagebreak
1322 \fi}
1323

```

### 14.8.7 Obsolete Macros

The macros in this section are no longer recommended, but will continue to exist in the next version of the style. Existing users of this style should upgrade their source files to make use of the new, replacement, mechanisms offered by the style.

```

1324 %%=====
1325 %%           O B S O L E T E   M A C R O S           %
1326 %%=====
1327

```

The `xlatn` environment is obsolete, but for the sake of code-clarity the code has not been moved into the Obsolete Macros section of this document.

### 14.8.8 Deprecated Macros

The macros in this section will be deleted in the next version of the style. Where these old macros conflict with new ones they have been renamed by placing a lowercase ‘o’ at the start of each macro name; this makes them easily accessible yet out of the way.

```
1328 %%=====
1329 %%          D E P R E C A T E D   M A C R O S           %
1330 %%=====
1331
```

**Boolean Contants** In the early releases, before I *knew* about L<sup>A</sup>T<sub>E</sub>X’s `\newif` command I had coded `\ifs` using these contants. These should have been removed some time ago, but I had neglected placing them into this *Deprecated Macros* section and so hadn’t given proper notice. Consider this *notice*.

<code>\False</code>	<code>\False</code> is defined for use in <code>\if</code> macro constructs and the other constants in this style.
<code>\True</code>	<code>\True</code> is defined for use in <code>\if</code> macro constructs and the other constants in this style.
<code>\ChordBk</code>	<code>\ChordBk</code> tells if we are processing a <code>chordbk.sty</code> document.
<code>\Overhead</code>	<code>\Overhead</code> tells if we are processing an <code>overhead.sty</code> document.
<code>\SongEject</code>	<code>\SongEject</code> specifies if we want to end the current page at the end of every <code>song</code> environment. A value of <code>\True</code> means eject after every <code>song</code> environment.
<code>\WordBk</code>	<code>\WordBk</code> tells if we are processing a <code>wordbk.sty</code> document
<code>\WordsOnly</code>	<code>\WordsOnly</code> is equal to <code>\True</code> if we’re in words-only mode. The default value will be <code>\False</code> , as that is how all of the commands in this file will act.
<code>\SBinSongEnv</code>	<code>\SBinSongEnv</code> tells if we are inside of a song environment. This is re-defined as we enter and exit the song environment.

```
1332 \newcommand{\False}{0}
1333 \newcommand{\True}{1}
1334 \newcommand{\ChordBk}{\False}
1335 \newcommand{\Overhead}{\False}
1336 \newcommand{\SongEject}{\True}
1337 \newcommand{\WordBk}{\False}
1338 \newcommand{\WordsOnly}{\False}
1339 \newcommand{\SBinSongEnv}{\False}
1340
```

End of songbook.sty file.

```
1341 \endinput
1342
```