The bibleref-lds package *

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Abstract

The bibleref-lds package is an extension of the bibleref-mouth package that supports references for the scriptures of The Church of Jesus Christ of Latter-day Saints (LDS). To write a reference, the document should use the command \bibleref{⟨reference⟩}, exactly as with the stock bibleref-mouth package.

1 Usage

The usage is identical to that of the bibleref-mouth package, and so readers should first familiarize themselves with that documentation. For example, a hypertext reference like the following can be produced by the command below: \bibleref{2 Ne 9:28–29}

This package supports the canonical LDS scriptures, as listed in Table 1. It also adds new aliases for some Bible books, as listed in Table 2. The “short abbreviation” in the table is the abbreviation used on the thumb index of many editions. The table uses boldface for books that are changed from the existing bibleref-mouth abbreviation. Numbered books can be specified with Arabic or Roman numerals. Abbreviations may have an optional trailing period. All spaces are optional. For example, it is equally acceptable to say IINephi, IINe., IINe, 2Nephi, 2Ne., 2Ne, II Nephi, II Ne., II Ne, 2 Nephi, 2 Ne., or 2 Ne.

This package defines two new styles: lds and lds.org. The former uses the standard abbreviations for books according to the practice in the LDS church. The latter uses the same abbreviations, and additionally creates a link to the scriptures on the official LDS website. The lds.org style is set as the current style, although it can be overridden by a user. Users can customize the link text using the provideldsdotorgstyle command.

This package also renames one Bible book from “Song of Songs” to “Song of Solomon.”

*This document corresponds to bibleref-mouth v1.0, dated 2012/02/26.
Table 1: Supported Books

<table>
<thead>
<tr>
<th>Book</th>
<th>Standard Abbreviation</th>
<th>Short Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Nephi</td>
<td>1 Ne.</td>
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</tr>
<tr>
<td>2 Nephi</td>
<td>2 Ne.</td>
<td>2 Ne.</td>
</tr>
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<td>Enos</td>
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<td>Omn.</td>
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<td>W of M</td>
<td>W Mn</td>
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<td>Mosiah</td>
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<td>3 Nephi</td>
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<td>Mni.</td>
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<td>Abr.</td>
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<td>Joseph Smith-History</td>
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<td>Articles of Faith</td>
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<td>A of F</td>
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<td>Book</td>
<td>Standard Abbreviation</td>
<td>Short Abbreviation</td>
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<tr>
<td>--------------------</td>
<td>-----------------------</td>
<td>--------------------</td>
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<td>Oba.</td>
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<td>Mic.</td>
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<td>Short Abbreviation</td>
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<td>Phil.</td>
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<td>1 Jhn.</td>
</tr>
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<td>2 John</td>
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<td>2 Jhn.</td>
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<tr>
<td>3 John</td>
<td>3 Jn.</td>
<td>3 Jhn.</td>
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</tr>
<tr>
<td>Revelation</td>
<td>Rev.</td>
<td>Rev.</td>
</tr>
</tbody>
</table>
2 Implementation

All the internal macros have a name beginning with \texttt{brl@}, which stands for \texttt{biblereflds}, so as to avoid polluting the global namespace.

2.1 Book Names

The full book names are accessible through \texttt{\brl@foreachbook@full{(callback)}-{}{(space)}{(dash)}{(bookof)}{(booknumberstyle)}}. The callback argument is expected to have the signature \texttt{\(\langle\texttt{callback}\rangle\{(\texttt{book})\{(\texttt{bookname})\}}\)}}. The number style argument is expected to be a function with the signature \texttt{\(\langle\texttt{callback}\rangle\{(\texttt{number})\}}\)}}.

\begin{verbatim}
\newcommand*{\brl@foreachbook@full}[5]{% 
  #1{INephi}{#5{1}#4Nephi}\% 
  #1{IINephi}{#5{2}#4Nephi}\% 
  #1{Jacob}{#4Jacob}\% 
  #1{Enos}{#4Enos}\% 
  #1{Jarom}{#4Jarom}\% 
  #1{Omni}{#4Omni}\% 
  #1{WordsOfMormon}{Words#2of#2Mormon}\% 
  #1{Mosiah}{#4Mosiah}\% 
  #1{Alma}{#4Alma}\% 
  #1{Helaman}{#4Helaman}\% 
  #1{IIINephi}{#5{3}#4Nephi}\% 
  #1{IVNephi}{#5{4}#4Nephi}\% 
  #1{Mormon}{#4Mormon}\% 
  #1{Ether}{#4Ether}\% 
  #1{Moroni}{#4Moroni}\% 
  #1{DoctrineandCovenants}{Doctrine#2and#2Covenants}\% 
  #1{OfficialDeclaration}{Official#2Declaration}\% 
  #1{Moses}{#4Moses}\% 
  #1{Abraham}{#4Abraham}\% 
  #1{JosephSmith-Matthew}{Joseph#2Smith#3Matthew}\% 
  #1{JosephSmith-History}{Joseph#2Smith#3History}\% 
  #1{ArticlesofFaith}{Articles#2of#2Faith}\%
}
\end{verbatim}

The abbreviated book names are accessible through \texttt{\brl@foreachbook@abbrv{(callback)}-{}{(standardperiod)}{(optionalperiod)}{(space)}{(ampersand)}-{}{(booknumberstyle)}}. The optional period argument is for books that are normally written without a period, but which could reasonably have an alias defined which does use a period. The callback argument is expected to have the signature \texttt{\(\langle\texttt{callback}\rangle\{(\texttt{book})\{(\texttt{bookname})\}}\)}}. The number style argument is expected to be a function with the signature \texttt{\(\langle\texttt{callback}\rangle\{(\texttt{number})\}}\)}}.

\begin{verbatim}
\newcommand*{\brl@foreachbook@abbrv}[6]{% 
  #1{INephi}{#6{1}Ne#2}\% 
  #1{IINephi}{#6{2}Ne#2}\% 
  #1{Jacob}{Jacob}\% 
  #1{Enos}{Enos}\%
}
\end{verbatim}
The shorter abbreviated book names are accessible through \foreachbook@thumb{\callback}{\period}{\space}{\ampersand}-\{\booknumberstyle\}. These are the abbreviations that are used on the thumb index of many editions. The optional period argument is for books that are normally written without a period, but which could reasonably have an alias defined which does use a period. The callback argument is expected to have the signature \callback{\book}{\bookname}. The number style argument is expected to be a function with the signature \callback{\number}.

\newcommand*{\foreachbook@thumb}[6]{% #1{INephi}{INeph}% #1{IINephi}{IINeph}% #1{Jacob}{Jac}% #1{Enos}{Eno}% #1{Jarom}{Jar}% #1{Omni}{Omn}% #1{WordsofMormon}{W#3Mn}% #1{Mosiah}{Mos}% #1{Alma}{Alm}% #1{Helaman}{Hel}% #1{IIINephi}{IIINeph}% #1{IVNephi}{IVA}% #1{Mormon}{Mor}% #1{Ether}{Eth}% #1{Moroni}{Mn}% #1{DoctrineandCovenants}{D#3C}% #1{OfficialDeclaration}{O#3D}% #1{Moses}{Mos}% #1{Abraham}{Abr}% #1{JosephSmith-Matthew}{J#3S-M}% #1{JosephSmith-History}{J#3S-H}% #1{ArticlesofFaith}{A#3F}%

6
The modified Bible book abbreviations are accessible through \foreachbook@bible@abbrv{(callback)}{(period)}{(epistlenumberstyle)}{(book)}{(bookname)}. These are the standard abbreviations that are used in official LDS publications, but that are different from the popularly accepted abbreviations in the biblieref-mouth package. The callback argument is expected to have the signature \(\langle\text{callback}\rangle\)-{(book)}{(bookname)}. The number style argument is expected to be a function with the signature \(\langle\text{callback}\rangle\)-{(number)}.

Some modified short Bible book abbreviations are accessible through \foreachbook@bible@thumb{(callback)}{(period)}{(space)}-{(booknumberstyle)}{(epistlenumberstyle)}{(book)}{(bookname)}. These are the abbreviations that are used on the thumb index of many editions, and that are different from the popularly accepted abbreviations in the biblieref-mouth package. The callback argument is expected to have the signature \(\langle\text{callback}\rangle\)-{(book)}{(bookname)}. The two number style arguments are expected to be functions with the signature \(\langle\text{callback}\rangle\)-{(number)}. 

\foreachbook@bible@abbrv{\text{Exodus}}{Ex#2}\% 
\foreachbook@bible@abbrv{\text{Esther}}{Esth#2}\% 
\foreachbook@bible@abbrv{\text{Ecclesiastes}}{Ecc#2}\% 
\foreachbook@bible@abbrv{\text{Song of Songs}}{Song#2}\% 
\foreachbook@bible@abbrv{\text{Hosea}}{Hosea}\% 
\foreachbook@bible@abbrv{\text{Obadiah}}{Obad#2}\% 
\foreachbook@bible@abbrv{\text{Micah}}{Micah}\% 
\foreachbook@bible@abbrv{\text{Nahum}}{Nahum}\% 
\foreachbook@bible@abbrv{\text{Philippians}}{Philip#2}\% 
\foreachbook@bible@abbrv{\text{I Thessalonians}}{#3(1)Thes#2}\% 
\foreachbook@bible@abbrv{\text{II Thessalonians}}{#3(2)Thes#2}\% 
\foreachbook@bible@abbrv{\text{Titus}}{Titus}\% 
\foreachbook@bible@abbrv{\text{James}}{James}\% 
\foreachbook@bible@abbrv{\text{I John}}{#3(1)Jn#2}\% 
\foreachbook@bible@abbrv{\text{II John}}{#3(2)Jn#2}\% 
\foreachbook@bible@abbrv{\text{III John}}{#3(3)Jn#2}\% 

\foreachbook@bible@thumb{\text{Exodus}}{Exo#2}\% 
\foreachbook@bible@thumb{\text{Deuteronomy}}{Deu#2}\% 
\foreachbook@bible@thumb{\text{Joshua}}{Jos#2}\% 
\foreachbook@bible@thumb{\text{Judges}}{Jdg#2}\% 
\foreachbook@bible@thumb{\text{Ruth}}{Rth#2}\% 
\foreachbook@bible@thumb{\text{Ezra}}{Ezr#2}\% 
\foreachbook@bible@thumb{\text{Esther}}{Est#2}\% 
\foreachbook@bible@thumb{\text{Psalms}}{Psm#2}\% 
\foreachbook@bible@thumb{\text{Proverbs}}{Pro#2}\%
2.2 Book Aliases

Various book aliases are provided for all the book names, including versions of the full names, the abbreviated names, and the short abbreviated names. The book numbers can be done with either Arabic or Roman numerals. The abbreviations are supported both with and without periods. An ampersand can be represented as either & or and.

```latex
{\brl@foreachbook@full{\providebiblebookalias}{\-}{}{\brm@number@upperromanascii}}
{\brl@foreachbook@full{\providebiblebookalias}{\-}{}{\brm@number@arabic}}
{\brl@foreachbook@abbrv{\providebiblebookalias}{\-}{}{\brm@number@upperromanascii}}
{\brl@foreachbook@abbrv{\providebiblebookalias}{\-}{}{\brm@number@arabic}}
{\brl@foreachbook@abbrv{\providebiblebookalias}{.}{.}{\brm@number@upperromanascii}}
{\brl@foreachbook@abbrv{\providebiblebookalias}{.}{.}{\brm@number@arabic}}
{\brl@foreachbook@thumb{\providebiblebookalias}{.}{.}{\brm@number@upperromanascii}}
{\brl@foreachbook@thumb{\providebiblebookalias}{.}{.}{\brm@number@arabic}}
```

2.3 Formatted Book Names

Several different forms of book names are created by default. These commands define the callback as `\providebiblebook{⟨stylesheet⟩}`, which creates a version of each book name in the given style. The LDS book names are added to the existing styles that are defined in the bibleref-mouth package.

2.4 Renamed Book

The book commonly called “Song of Songs” is known in LDS publications as “Song of Solomon.” That name is overridden for the existing styles that use it in the
bibleref-mouth package.
178 \providebiblebook{fullname}{SongofSongs}{Song of Solomon}
179 \providebiblebook{text}{SongofSongs}{Song of Solomon}

2.5 LDS Style

The style of book names used in LDS publications is similar to the existing styles
but not identical to any of them, so a new format is defined here.
180 \brl@foreachbook@abbrv\providebiblebook{lds}\
181 \{.\}\{\&\}\{\brm@number@arabicspace\}
182 \brm@foreachbook@altabbrv\providebiblebook{lds}\
183 \{.\}\{\brm@number@arabicspace\}{\brm@number@arabicspace}\
184 \brl@foreachbook@bible@abbrv\providebiblebook{lds}\
185 \{.\}\{\brm@number@arabicspace\}

The style of references used in LDS publications is similar to the existing styles
but not identical to any of them, so a new one is defined here.
186 \providebiblestyle{lds}\{\standardbiblestyle{lds}\
187 \{\}\{;\}\{;\}\{,\}\{--\}\
188 \{\brm@number@arabic\}\{\brm@number@arabic\}\
189 \{#1\}{#2}{#3}

2.6 Text Style

This style outputs a textual description of the reference. It overrides the corre-
sponding style in the bibleref-mouth package, and adds support for LDS scriptures.
This style depends on the non-expandable text style in the bibleref-mouth package,
so it may not be used in an expandable context.

\brl@formatchapter

This style normally outputs a chapter with a “chapter” label. However, there are a few exceptions. The Doctrine and Covenants is divided into sections. The Official
Declarations and the Articles of Faith also do not have chapters.

\newcommand*{\brl@formatchapter}[1]{
\brm@ifsamestr{\thebook{#1}}{DoctrineandCovenants}{%
\section \brm@number@stomach@text{\thechapter{#1}}%
}\{%
\brm@ifsamestr{\thebook{#1}}{OfficialDeclaration}{%
\numberstringnum{\thechapter{#1}}%
}\{%
\brm@ifsamestr{\thebook{#1}}{ArticlesofFaith}{%
\chapter \brm@number@stomach@text{\thechapter{#1}}%
}\}
}\}%
}
This style normally outputs a verse with a “verse” label. However, there is one exception. The Articles of Faith are composed articles.

\texttt{\\brl@formatverse} This style normally outputs a verse with a “verse” label. However, there is one exception. The Articles of Faith are composed articles.

\texttt{\\brl@bkchsep} A book is normally separated from a chapter by a comma. However, there are a couple exceptions. The Official Declarations use a dash. The Articles of Faith don’t have chapters, so they don’t need a separator.

\texttt{\\brl@chvsep} A chapter is normally separated from a verse by a space. However, there is one exception. The Articles of Faith don’t have a chapter, and so they use a comma, similar to the way other books have a book separator.

\texttt{\\brl@text@filter} A filter for standard formats is \texttt{\\brl@text@filter{⟨lastpassage⟩}{⟨passage⟩}-⟨infixseparators⟩}{⟨prefixes⟩}{⟨formatters⟩}{⟨delegate⟩}. It makes sure that the correct separators are used, which depend on the book name.

The style of book names needs to be extended to support LDS books.
The style of references uses the helpers in this section to format correct text descriptions of LDS references. No separators are given, because they would be overridden in \text@filter anyway.

\providebiblestyle{text}{%
  {	ext@standard@filtered{}}
  {\text@packpassage{, and }{, and }{, and }}
  {\text@packpassage{ to }{ to }{ to }}
  {\thebookname{text}}
  {\formatchapter}
  {\formatverse}
}{#1}{#2}{#3}

2.7 Linked Style

This section defines a style that links to \url{http://www.lds.org(scriptures)}.

First all the books must be associated with a valid URL path component.

\providebiblebook{lds.org}{Genesis}{gen}
\providebiblebook{lds.org}{Exodus}{ex}
\providebiblebook{lds.org}{Leviticus}{lev}
\providebiblebook{lds.org}{Numbers}{num}
\providebiblebook{lds.org}{Deuteronomy}{deut}
\providebiblebook{lds.org}{Joshua}{josh}
\providebiblebook{lds.org}{Judges}{judg}
\providebiblebook{lds.org}{Ruth}{ruth}
\providebiblebook{lds.org}{1Samuel}{1\_sam}
\providebiblebook{lds.org}{2Samuel}{2\_sam}
\providebiblebook{lds.org}{1Kings}{1\_kgs}
\providebiblebook{lds.org}{2Kings}{2\_kgs}
\providebiblebook{lds.org}{1Chronicles}{1\_chr}
\providebiblebook{lds.org}{2Chronicles}{2\_chr}
\providebiblebook{lds.org}{Ezra}{ezra}
\providebiblebook{lds.org}{Nehemiah}{neh}
\providebiblebook{lds.org}{Esther}{esth}
\providebiblebook{lds.org}{Job}{job}
\providebiblebook{lds.org}{Psalms}{ps}
\providebiblebook{lds.org}{Proverbs}{prov}
\providebiblebook{lds.org}{Ecclesiastes}{eccl}
\providebiblebook{lds.org}{SongofSongs}{song}
\providebiblebook{lds.org}{Isaiah}{isa}
\providebiblebook{lds.org}{Jeremiah}{jer}
\providebiblebook{lds.org}{Lamentations}{lam}
\providebiblebook{lds.org}{Ezekiel}{ezek}
This style emits a URL that points to http://scriptures.lds.org/ There is a newer URL at http://lds.org/scriptures/, but with the older URL the anchors are placed better. The older URL will redirect to the newer URL.
\provideldsdotorgstyle A portion of the URL for lists of verses is generated by \provideldsdotorgurl\list\passage{⟨lastpassage⟩}{⟨beginpassage⟩}{⟨endpassage⟩}-\list{⟨list⟩}.
\newcommand*{\provideldsdotorgstyle}[8]{% \rl@ldsdotorg@consumeargs{#1}{#2} % \rm@packseparators{#3}{#4} % \rm@packpassage{#5}{#6}{#7} % \rm@packpassage{#8}{#8}{#8} % } This command helps collect arguments by consuming five arguments from \provideldsdotorgstyle and two remaining arguments for the number formats. It’s signature is \provideldsdotorg@consumeargs{⟨listseparators⟩}{⟨rangeseparators⟩}{⟨chapterstyle⟩}-. This command is not able to take an arbitrary style name to use as the link text, like \providebiblegatewaystyle can, because the link text needs to be divided into multiple links for each chapter. Links to the LDS website cannot span chapter boundaries.
\newcommand*{\provideldsdotorgstyle}[8]{% \rl@ldsdotorg@consumeargs{#1}{#2} % \rm@packseparators{#3}{#4} % \rm@packpassage{#5}{#6}{#7} % \rm@packpassage{#8}{#8}{#8} % } This command helps collect arguments by consuming five arguments from \provideldsdotorgstyle and two remaining arguments for the number formats. It’s signature is \provideldsdotorg@consumeargs{⟨listseparators⟩}{⟨rangeseparators⟩}{⟨chapterstyle⟩}-. This command is not able to take an arbitrary style name to use as the link text, like \providebiblegatewaystyle can, because the link text needs to be divided into multiple links for each chapter. Links to the LDS website cannot span chapter boundaries.
The actual link style is created by the \brl@ldsdotorg@providestyle-\{\texttt{\textit{stylename}}\}\{\texttt{\textit{infixseparators}}\}\{\texttt{\textit{listseparators}}\}\{\texttt{\textit{rangeseparators}}\}\{\texttt{\textit{formatters}}\}\} command.
\newcommand*{\brl@ldsdotorg@providestyle}[5]{\providebiblestyle{#1}{\brl@ldsdotorg@style{#2}{#3}{#4}{#5}{##1}{##2}{##3}}}
\brl@ldsdotorg@style The link style is generated by the \brl@ldsdotorg@style-\{\texttt{\textit{infixseparators}}\}\{\texttt{\textit{listseparators}}\}\{\texttt{\textit{rangeseparators}}\}\{\texttt{\textit{formatters}}\}\{\texttt{\textit{beginpassage}}\}\{\texttt{\textit{endpassage}}\}\{\texttt{\textit{list}}\}\} command.
\newcommand*{\brl@ldsdotorg@style}[7]{\brl@ldsdotorg@range% #7{\brl@ldsdotorg@list{#1}{#2}{#3}{#4}{\ifhasbook{#7}{#7}{#6}}}{}}
\brl@ldsdotorg@list Additional references in a list are generated by the \brl@ldsdotorg@list-\{\texttt{\textit{infixseparators}}\}\{\texttt{\textit{listseparators}}\}\{\texttt{\textit{rangeseparators}}\}\{\texttt{\textit{formatters}}\}\{\texttt{\textit{beginpassage}}\}\{\texttt{\textit{endpassage}}\}\{\texttt{\textit{list}}\}\} command.
\newcommand*{\brl@ldsdotorg@list}[8]{\brl@ldsdotorg@range% #8{\brl@ldsdotorg@list{#1}{#2}{#3}{#4}{\ifhasbook{#7}{#7}{#6}}}{}}
\brl@number@empty In order to output only the punctuation for a passage, there must be a way to suppress the output of the chapter and verse numbers. A special number formatter for this is \brl@number@empty\{\texttt{\textit{number}}\}. It always outputs the empty string.
\newcommand*{\brl@number@empty}[1]{}
\brl@ldsdotorg@range Ranges of references are generated by the \brl@ldsdotorg@range-\{\texttt{\textit{lastpassage}}\}\{\texttt{\textit{beginpassage}}\}\{\texttt{\textit{endpassage}}\}\{\texttt{\textit{infixseparators}}\}\{\texttt{\textit{listseparators}}\}\{\texttt{\textit{rangeseparators}}\}\{\texttt{\textit{formatters}}\}\} command. It decides which punctuation
would be necessary and then delegates to \texttt{\brl@ldsdotorg@href}. The punctuation is not straightforward, because sometimes a reference must be split into multiple separate links. Also, in between the links, there might be some punctuation that does not link anywhere. This can be done using the regular \texttt{\brm@standard@passage} helper. Sometimes the helper is invoked with no punctuation, so it outputs only a formatted passage. Sometimes it is invoked with empty number formatters and only punctuation, so it outputs only the delimiters around a passage.

\begin{verbatim}
\newcommand*{\brl@ldsdotorg@range}[7]{% 
\brl@ldsdotorg@href[\#2]{\#3}{% 
  \brm@standard@passage{\#1}{\#2}% 
  {\#5}% 
  {\brm@packpassage}%
  {\brl@number@empty}%
  {\brl@number@empty}%
  {\brl@number@empty}}% 
}{% 
  \brm@standard@passage{\#1}{\#2}{\#4}% 
  {\brm@packpassage}%
  {\#7}%
}{% 
  \brm@standard@passage{\#2}{\#3}{\#4}{\brm@packpassage}{\{}{\{}{\{}{\#7}%
}{% 
}\end{verbatim}

A single range of references that has been checked by \texttt{\brl@ldsdotorg@range} is processed further by \texttt{\brl@ldsdotorg@href}{{\langle beginpassage}{\\langle endpassage}{\langle prefix}{\\{formattedbeginpassage}{\\{rangeseparator}{\\{formattedendpassage}}}:}

\begin{verbatim}
\newcommand*{\brl@ldsdotorg@href}[6]{% 
  \ifsamebook[\#1]{\#2}% 
    \ifsamechapter[\#1]{\#2}% 
      \brl@ldsdotorg@samechapter[\#1]{\#2}{\#3}{\#4}{\#5}{\#6}%
    \}%
  \}%
  \brl@ldsdotorg@spanchapter[\#1]{\#2}{\#3}{\#4}{\#5}{\#6}%
}\end{verbatim}

\texttt{\brl@ldsdotorg@href}
If a reference is to a range of verses within one chapter, then the link is generated by `\brldsdotorg@samechapter{beginpassage}{endpassage}{prefix}{formattedbeginpassage}{rangeseparator}{formattedendpassage}`.

If a reference is to a range of verses that are not within one chapter, then the links are generated by `\brldsdotorg@spanchapter{beginpassage}{endpassage}{prefix}{formattedbeginpassage}{rangeseparator}{formattedendpassage}`. The begin and end of the range have to be separate links because a single link cannot span chapters.

This style uses the standard LDS abbreviations and has links to the official LDS website. This is the default style if it has not been overridden by the user.

This style uses the full names of books and has links to the official LDS website. A user can choose this style with the following command.
2.8 Default Style

The default style for documents that don’t override it is the one that outputs the full name of the books.

\setbiblestyle{lds.org}