realbookchords

vo.1 2013/04/29

Typesetting jazz chords the 'Real Book' way

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English documentation

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1 License and Requirements

REALBOOKCHORDS is placed under the terms of the LaTeX Project Public License, version 1.3 or later (http://www.latex-project.org/lppl.txt). It has the status "maintained".

In order to function properly a rather up to date version of the l3kernel¹ is needed. REAL-BOOKCHORDS also needs xparse (part of the l3packages² bundle) and fontspec³ for proper font support.

REALBOOKCHORDS does not offer the fonts it uses. You need to install them on your system by yourself and then use this package with XHATEX or LualATEX to be able to use its features.

¹ CTAN: l₃kernel ² CTAN: l₃packages ³ CTAN: fontspec

2 About

On his website Jochen Pietsch offers three fonts [Pie] which mimic the styles of the famous The Real Book [Varoo] and its successor The New Real Book [Varoo]:

- New Real Book Chords
- Real Book Title
- RealBook Chords

REALBOOKCHORDS does *not* offer these fonts. Instead it offers easy to use macros to use the first font with X_TL^AT_EX or Lual^AT_EX if it is installed on your system. Especially a macro for the intuitive usage of the sometimes rather hidden symbols for the creation of chord symbols is offered.

3 Setup

REALBOOKCHORDS defines a few options which can be globally set using

► \RBCsetup{<options>}

The options follow a key/value system like in many other LATEX packages.

4 The Fonts

Please note, these fonts are still in beta-stage, so you might note some missing characters, or you may need to tweak the layout. Because my interest in this project has decreased, I have no plans to do any further improvements.

Jochen Pietsch

The license of the fonts forbids to use them for commercial purposes. This is not strictly true for this package but as it is rather useless without them, well...

This documentation defines new font families for two of the three fonts, the third one is defined by REALBOOKCHORDS.

```
% from the preamble of this document
newfontfamily\RealBookTitle{Real Book Title}
Newfontfamily\RealBookChords{RealBook Chords}
```

⁴ The original illegal edition is no longer available, though. I am uncertain if the 6th edition still uses the same handwritten font. ⁵ Just in case the website isn't reachable any more or the fonts are no longer distributed there you can also get a copy from me. In this case just send me an email.

The package provides this font family switch:

► \NewRealBookChords

activate the font family "New Real Book Chords"

4.1 New Real Book Chords

The most important font for this package is "New Real Book Chords". The font has only a limited number of characters since its purpose is to build chords. This also means that it has some unexpected symbols. But have a look for yourself:

4.2 Real Book Title

The following example is simply to show you the font, REALBOOKCHORDS does not use it at all.

4.3 RealBook Chords

The following example is simply to show you the font, REALBOOKCHORDS does not use it at all.

```
\normalsize\RealBookChords ABCDEFG ab s 01 34567 9 \#()+-\textasciicircum

ABCDEFG alt.b منا الماء ١٩٠٤ الماء ١٩٠٤ الماء ١٩٠٤ الماء الماء ١٩٠٤ الماء الماء
```

5 Shortcomings

Since the font is missing some symbols, for instance the uppercase delta for a maj7 chord or the striked through o (similar to \emptyset) for a half-diminished chord, for one thing this package does workarounds and else we have to live with it.

There are plans for the future to extend this package for the use with the more professional font available here: http://www.jazzfont.com/. But for that I'll first have to be able to buy the font and experiment with it a bit. *Finis coronat opus*.

6 Typesetting Chords

It's time to get to the important stuff: the chords. To typeset them there is one basic command:

▶ \rbc[<options>]{<chord specs>}

The {<chord specs>} will be explained in detail in the rest of the documentation.

6.1 Basics

The basic usage is pretty self-explanatory:

Note that this is nearly but not exactly the same as using the font directly:

```
NewRealBookChords Ab9 Cmi E+ Gma9 F\#mi9 Db13

Ab9 Cmi E+ Gma9 F#mi9 Db13
```

The font provides the characters **MI** and **MA**. \rbc replaces the strings mi and ma with them. You have also seen that a b gives for a flat root and \# gives for a sharp root.

6.2 Extensions

One very important aspect of "jazzy" chords is tensions. The basic tensions are clear – just insert the intervall number:

```
\rbc\{G7\\rbc\{A9\\rbc\{F11\\rbc\{E13\\rbc\{B7+\}\}}\G^7 A^9 F^{11} E^{13} B^{7+}
```

Often enough one needs alterated extensions. **REALBOOKCHORDS** defines macros to access the characters and easily:

, } \b

minor/diminished extension

- ► \f
 alias for \b
- ▶ \s alias for \k

Note that these macros are only valid inside \rbc so that the usual meaning of, e.g., \b still holds outside. Now let's see them in action:

```
| \rbc{Fmi7(\b5)} \rbc{G7(\k9)} \rbc{Eb7(\b9)} \rbc{Db9(\k11)} \rbc{Cmi7(5-)}

| Fmi7(\b5) G^7(\psi4) E\b7(\b4) D\b9(\psi4) Cmi7(5-)
```

There are also some "extension descriptions":

```
\rbc{Cmaj9} \rbc{Bbadd9} \rbc{Absus4} \rbc{Galt} \rbc{F70mit3} \rbc{E\#dim}
\rbc{Daug}

Cmajq Bbaaaq Absus4 Galt. F70mit3 E#dim. Daug
```

Since they're not all available as single characters, REALBOOKCHORDS fakes the missing ones. This results in inconsistent looks. That's why REALBOOKCHORDS provides an option so that all six are faked:

▶ use-fake-symbols = <u>true</u>|false switch between original characters and faked ones. Default: false

```
\label{eq:continuous_problem} $$ \RBCsetup\{use-fake-symbols\} $$ \rbc\{Cmaj9\} \rbc\{Bbadd9\} \rbc\{Absus4\} \rbc\{Galt\} \rbc\{F7omit3\} \rbc\{E\\#dim\} $$ \rbc\{Daug\}$$ $$ $$ $$ C^{maj9} B^{add9} A^{bsus4} G^{alt} F^{7omit3} E^{\#dim} D^{aug}$$
```

6.3 Double Extensions

Sometimes more than one alterated extension needs to be indicated. The "New Real Book Chords" font provides a number of characters for this purpose. REALBOOKCHORDS provides five macros to access them easily:

```
▶ \bb{<intervalls>}
   \rbc{\bb{13,9}} (\bar{\bar{b}})
▶ \ff
    alias for \bb
▶ \bk{<intervalls>}
   ▶ \fs
    alias for \bk
▶ \bs
    alias for \bk
► \kb{<intervalls>}
   \rbc{\kb{13,9}} (#13)
▶\sf
    alias for \kb
▶\sb
    alias for \kb
▶ \kk{<intervalls>}
   \rbc{\kk{13,9}} (#13)
▶\ss
    alias for \kk
▶ \dt[<alterations>][{<intervalls>}
   \dt[bb]{13,9} (513)
```

There are four different combinations of alterations. For each there is a macro, for some of these there are also aliases since "k" (German: "Kreuz") may not be the natural choice for everyone. The fifth macro also provides a possibility to access to the for combinations but also enables to only alterate only one of the two extensions. Unlike the first four macros <code>\dt</code> is *not only inside* <code>\rbc</code> defined but can also be used in normal text.

All possible [<alterations>] are shown below:

```
| \dt{13,9} \dt[bb]{13,9} \dt[bk]{13,9} \dt[kb]{13,9} \dt[kk]{13,9} \dt[kk]{13,9} \dt[kk]{13,9} \dt[k]{13,9} \dt[k]{13,9} \dt[k]{13,9} \dt[k]{13,9} \dt[k]{13,9} \dt[k]{13,9} \dt[ss]{13,9} \dt[ss]{13,9} \dt[ss]{13,9} \dt[ss]{13,9} \dt[ss]{13,9} \dt[ss]{13,9} \dt[s]{13,9} \dt[s]{
```

The intervall numbers for both extensions are given seperated with a comma. If the combination is present as a character like for example 13 then the character is used else it is faked:

- ► fake-double-extensions = <u>true</u>|false Default: false when true *all* double extension numbers are faked.
- ► double-extensions-brackets = <u>true</u>|false Default: false enclose the double extensions in brackets or not.

There is a shortcut for the double-extensions-brackets option: \rbc*. The brackets can also be set explicitly using [and].

```
\rbc{Eb7\bk{9,5}} \rbc[double-extensions-brackets=false]{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}} \rbc*{C\dt{9,6}}
```

6.4 Bass Notes

If you want to indicate a different bass note for the chord you simply seperate the main chord from the bass note with a slash. Please note: if the bass note is a flat or sharp note you have to enclose it in braces:

```
CMI_{g^{\dagger}}^{7}C_{G}^{7}C_{G}^{4}
```

6.5 Disabling the Parsing

If you don't want all the parsing of the \rbc command but simply access the "New Real Book Chords" font you can of course use the font family switch presented earlier:

```
NewRealBookChords Ama7(omit3) [major] Ama<sup>7(</sup>omit<sup>3)</sup> (major)
```

You can also use the following option:

▶ parse = true | false switch off the parsing. Default: true

```
texttt{parse=true}: \rbc{Ama7(omit3) [major]} \\
texttt{parse=false}: \rbc[parse=false]{Ama7(omit3) [major]}

parse=true: Ama<sup>7(omit3)</sup> (major)

parse=false: Ama<sup>7(omit3)</sup> (major)
```

7 Song Titles

► \SongTitle[<left>]{<center>}[<right]

A centered title with options to put text to the left and the right of it.

► songtitle-format-left = <code>
Format of the text to the left.

Default: \NewRealBookChords\footnotesize

► songtitle-format-center = <code>
Format of the text in the center.

Default: \NewRealBookChords\Large\centering

► songtitle-format-right = <code>
Format of the text to the right.

Default: \NewRealBookChords\footnotesize

➤ songtitle-pos-left = l|c|r Alignment of the text to the left.

Default: 1

► songtitle-pos-right = l|c|r

Default: 1

As an example: the following code ...

```
\SongTitle{Begin The Beguine}
```

Alignment of the text to the right.

- par\vskip\baselineskip
- SongTitle[Medium Swing Tempo]{Begin The Beguine}
- 4 \par\vskip\baselineskip
- 5 \SongTitle{Begin The Beguine}[Cole Porter\\arr.: Jerry Sears]

```
{
    \par\vskip\baselineskip
    \RBCsetup{songtitle-pos-right=r}

    \SongTitle{Begin The Beguine}[Cole Porter\\arr.: Jerry Sears]
}
```

... produces this:

Begin The Beguine

Medium Swing Tempo

Begin The Beguine

Begin The Beguine Cole Porter arr.: Jerry Sears

Begin The Beguine Cole Porter arr.: Jerry Sears

8 See it in Action

Let's use the \rbc command together with musixtex of for a real example. Both fontspec which is loaded be REALBOOKCHORDS and musixtex define the command \breve. The definition by fontspec takes place \AtBeginDocument.

A similar problem arises when musixtex is used together with biblatex⁷: they both define \addspace.

You can do something like the following to get them to work together:

```
documentclass{article}
vusepackage{musixtex}
let\mbreve\breve
let\breve\relax
vusepackage{realbookchords}
begin{document}
do stuff, e.g. restore the 'musixtex' definition of \breve
lend{document}
```

Or – even easier – load REALBOOKCHORDS with the load-musixtex option and let it handle things. However, this doesn't always work as expected, yet.

```
| documentclass{article}
| usepackage[load-musixtex]{realbookchords}
| begin{document}
| do stuff, e.g. restore the 'musixtex' definition of \breve |
| end{document}
```

⁶ CTAN: musixtex ⁷ CTAN: biblatex

Note that this option should be used as a package option and *not* via \RBCsetup.

If you use this option REALBOOKCHORDS loads musixtex and sets \breve to the meaning of fontspec. You have the possibility to access musixtex's version:

▶ \musixtexbreve

musixtex's original definition.

▶ \fontspecbreve

fontspec's original definition.

▶ breve-version = fontspec|musixtex
sets \breve to the definition of the specified package.

▶ \musixtexaddspace

REALBOOKCHORDS undefines musixtex's \addspace but stores the definition in \musixtexaddspace. You'll probably need to restore musixtex's definition. If you don't use biblatex in the same document there shouldn't be a problem.

▶ addspace-version = musixtex

restores musixtex's definition.

Let's take the first eight bars of Kenny Durham's "Blue Bossa" as an example:

```
\begin{music}
   \let\addspace\musixtexaddspace
    \SongTitle{Blue Bossa}[\\Kenny Durham]
    \startpiece
   \addspace{.5\afterruleskip}%
   \NOtes\qa g\en
   \doublebar % 1
   \NOtes\Uptext{\rbc{Cmi6}}\qlp n\en
   \Notes\ca l\en
   \Notes\qa k\en
   \Notes\isluru0j\ca j\en
   \bar % 2
13
   \NOtes\tslur0j\hlp j\en
   \NOtes\qa i\en
15
   \bar % 3
    \NOTes\Uptext{\rbc{Fmi7}}\ha h\en
    \Notes\qlp n\en
    \Notes\isluru0m\ca m\en
    \bar % 4
    \NOTEs\tslur0m\wh m\en
    \bar % 5
22
    \NOtes\Uptext{\rbc{Dmi7(\b5)}}\qlp m\en
23
    \Notes\ca{lk}\qa j\en
24
    \Notes\isluru0i\ca i\en
25
    \bar % 6
\NOTEs\Uptext{\rbc{G7(\k5)}}\tslur0i\hlp i\en
```

```
\Notes\qa h\en
\bar % 7

\NoTes\Uptext{\rbc{Cmi6}}\ha g\en
\Notes\qlp m\isluru0\\ca l\en

\bar % 8

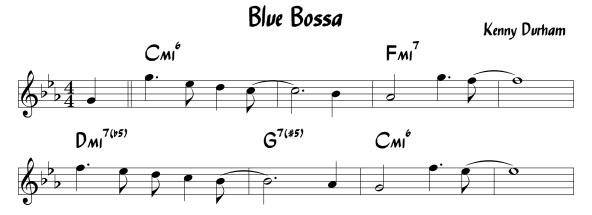
\NOTEs\tslur0\\wh l\en

\endpiece

\end{music}

\lambda
\lambda
\lambda
\lambda
\end{music}

\lambda
```



References

- [Pie] Jochen Pietsch. Jazz Fonts. URL: http://notation.jochenpietsch.de/index_e.html (visited on o5/10/2012).
- [Varoo] Various. *The Real Book Volume I. C Edition*. 6th edition. Hal Leonard Publishing Corporation, Jan. 1, 2000. ISBN: 978-0634060380.
- [Varo9] Various. *The New Real Book Volume I. C Edition.* 1st edition. Ama Verlag, Feb. 12, 2009. ISBN: 978-0961470142.

Implementation

```
\ProvidesExplPackage
      {realbookchords}
36
      {2013/04/29}
37
      {0.1}
      {Typesetting jazz chords the 'Real Book' way}
39
   \msg_new:nnnn { realbookchords } { wrong-engine }
      \{ \ \ \text{`realbookchords'} \ \ \text{`needs-either-to-be-run-with-XeLaTeX-or-with-LuaLaTeX.} \ \} 
42
43
        'realbookchords'~needs~either~to~be~run~with~XeLaTeX~or~with~LuaLaTeX.~
44
        Since~you're~using~something~different~I~will~abort!
45
     }
```

```
\bool_if:nF { \xetex_if_engine_p: || \luatex_if_engine_p: }
48
     { \msg_error:nn { realbookchords } { wrong-engine } \tex_endinput:D }
49
50
   \RequirePackage { xparse , l3keys2e }
51
52
   \tl_new:N \l__rbc_tmpa_tl
   \tl_new:N \l__rbc_tmpb_tl
54
55
   % Options:
   \bool_new:N
                     \l__rbc_tensions_brackets_bool
   \bool_set_true:N \l__rbc_tensions_brackets_bool
   \bool new:N
                     \l__rbc_fake_symbols_bool
                     \verb|\l_rbc_parse_chord_bool|
   \bool_new:N
  \bool_set_true:N \l__rbc_parse_chord_bool
   \bool_new:N
                     \l__rbc_fake_double_numbers_bool
                     \l__rbc_load_musixtex_bool
   \bool_new:N
   \keys_define:nn { rbc }
65
66
     {
       double-extensions-brackets .bool_set:N = \l__rbc_tensions_brackets_bool ,
67
       double-extensions-brackets .default:n = true ,
68
       use-fake-symbols
                                   .bool_set:N = \l__rbc_fake_symbols_bool ,
       use-fake-symbols
                                    .default:n = true ,
70
       fake-double-extensions
                                    .bool set:N = \label{eq:numbers} rbc fake double numbers bool ,
       fake-double-extensions
                                    .default:n = true ,
       parse
                                    .bool_set:N = \l__rbc_parse_chord_bool ,
73
       parse
                                    .default:n = true ,
74
                                    .code:n
       load-musixtex
75
         \bool_set_true:N \l__rbc_load_musixtex_bool
         \@ifpackageloaded{musixtex}{}
77
78
             \RequirePackage { musixtex }
79
             \cs_set_eq:NN \musixtexbreve \breve
             \cs_undefine:N \breve
             \cs set eq:NN \musixtexaddspace \addspace
82
             \cs_undefine:N \addspace
83
           }
     }
85
   % double tensions
   \cs_new:Npn \rbc_bb:n #1 { \rbc_read_double_tensions:nn { bb } { #1 } }
   \cs_new:Npn \rbc_kk:n #1 { \rbc_read_double_tensions:nn { kk } { #1 } }
   \cs_new:Npn \rbc_bk:n #1 { \rbc_read_double_tensions:nn { bk } { #1 } }
   \cs_new:Npn \rbc_kb:n #1 { \rbc_read_double_tensions:nn { kb } { #1 } }
   \cs new:Npn \rbc b: { B }
93
   \cs_new:Npn \rbc_k: { ? }
```

```
\l__rbc_double_tensions_signs_prop
   \prop_new:N
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { bb } { \'{a} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { ff } { \'{a} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { kk } { \aa{} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { ss } { \aa{} }
   \label{lem:loss} $$ \operatorname{Prop\_put:Nnn \l_\_rbc\_double\_tensions\_signs\_prop { bk } { \label{lem:loss} } $$
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { bs } { \"{a} }
103
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { kb } { \^{a} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { sb } { \^{a} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { B } { \rbc_b: }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { F } { \rbc_b: }
   \label{lem:loss} $$ \prop_put:Nnn \l_rbc_double_tensions_signs_prop { S } { \rbc_k: } $$
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { b } { \'{a} }
111
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { f } { \'{a} }
   \prop_put:Nnn \l__rbc_double_tensions_signs_prop { s } { \~{a} }
114
              \l__rbc_double_tensions_numbers_prop
   \prop new:N
116
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 5,5 }
                                                         { \'{A} }
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 9,5 }
                                                         { \'{A} }
   \prop put:Nnn \l rbc double tensions numbers prop { 11,5 } { \^{A} }
   \prop put:Nnn \l rbc double tensions numbers prop { 13,5 }
                                                         { \~{A} }
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 7,6 }
                                                         { \"{E} }
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 9,9 }
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,11 } { \'{E} }
   \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,13 } { \'{E} }
126
   \cs_new_protected:Npn \rbc_read_double_tensions:nn #1#2
128
      \bool_if:NT \l__rbc_tensions_brackets_bool { [ }
      \prop_get:NnNT \l__rbc_double_tensions_signs_prop { #1 } \l__rbc_tmpa_tl
        { \tl_use:N \l__rbc_tmpa_tl \tl_clear:N \l__rbc_tmpa_tl }
      \bool_if:NTF \l__rbc_fake_double_numbers_bool
        { \rbc_fake_double_numbers:w #2 \q_stop }
134
        {
          \prop_get:NnNTF \l__rbc_double_tensions_numbers_prop { #2 } \l__rbc_tmpb_tl
            { \tl_use:N \l__rbc_tmpb_tl \tl_clear:N \l__rbc_tmpb_tl }
            { \rbc_fake_double_numbers:w #2 \q_stop }
138
139
      \bool_if:NT \l__rbc_tensions_brackets_bool { ] }
     }
141
   \cs new protected:Npn \rbc dt:w
143
     { \peek_meaning:NTF [ { \ranker dt_auxi:w } { \ranker dt_auxii:n } }
```

```
145
    \cs_new:Npn \rbc_dt_auxi:w [#1]#2
146
      { \rbc_read_double_tensions:nn { #1 } { #2 } }
148
    \cs new:Npn \rbc dt auxii:n #1
149
      { \rbc_read_double_tensions:nn { } { #1 } }
150
    \cs_new:Npn \rbc_fake_double_numbers:w #1,#2 \q_stop
152
      {
153
        \box_move_up:nn { .0ex } { \hbox:n { \addfontfeatures { Scale=.9 } #1 } }
        \tex_kern:D -.5ex
155
        \box_move_down:nn { .85ex } { \hbox:n { \addfontfeatures { Scale=.9 } #2 } }
156
157
158
   % main command:
    \cs_new_protected:Npn \rbc_rbc:n #1
161
        \group_begin:
162
          \cs_set_eq:NN \bb \rbc_bb:n
163
          \cs_set_eq:NN \ff \rbc_bb:n
164
          \cs_set_eq:NN \bk \rbc_bk:n
165
          \cs_{eq:NN fs \underline{rbc}bk:n}
          \cs_set_eq:NN \bs \rbc_bk:n
          \cs set eq:NN \kb \rbc kb:n
          \cs_set_eq:NN \sf \rbc_kb:n
          \cs_set_eq:NN \sb \rbc_kb:n
          \cs_set_eq:NN \kk \rbc_kk:n
          \cs set eq:NN \ss \rbc kk:n
          \cs_{eq:NN \dt} \rbc_dt:w
          \cs_{set_eq:NN \b} \cs_b:
          \cs_{set_eq:NN f \underline{rbc}b:}
          \cs set eq:NN \k \rbc k:
          \cs_{eq:NN \s} \rbc_k:
          \tl_set:Nn \l__rbc_tmpa_tl { #1 }
          \prop_map_inline:Nn \l__rbc_symbols_prop
180
               \tl_set_rescan:Nnn \l__rbc_tmpb_tl { } { ##1 }
181
               \tl_replace_all:NVn \l__rbc_tmpa_tl { \l__rbc_tmpb_tl } { ##2 }
          \NewRealBookChords \tl_use:N \l__rbc_tmpa_tl
        \group_end:
      }
    \cs_generate_variant:Nn \tl_replace_all:Nnn { NV }
187
188
   % bass notes:
189
    \cs_new:Npn \rbc_bass_note:n #1
      \{ / \text{box move down:nn } \{ 1.25ex \} \{ \text{hbox:n } \{ \text{addfontfeatures } \{ \text{Scale=.75 } \} \#1 \} 
     } }
```

```
\cs_new_protected:Npn \rbc_is_bass:
             { \peek_meaning:NT \rbc_bass_note:n { \tex_kern:D -.35ex } }
         % fake symbols:
196
         \cs new:Npn \rbc fake symbol:nn #1#2
197
108
                  \bool_if:nTF { \tl_if_blank_p:n { #2 } || \l__rbc_fake_symbols_bool }
                           \box move up:nn { 1.05ex }
                                { \hbox:n { \addfontfeatures { Scale=.565 } #1 \tex_kern:D .1ex } }
                      }
                      { #2 }
204
             }
205
         \cs_new_protected:Npn \__rbc_peek_mima:
208
                  \peek meaning:NTF >
209
                      { \tex_kern:D -.4ex }
                       { \peek_meaning:NTF > { \tex_kern:D -.4ex } }
212
213
         \group_begin:
         \char_set_catcode_letter:N \@
         \cs_gset:Npn \rbc_real_add: { @ }
         \group_end:
         % symbols; strings to be replaced when parse=true
         \prop_new:N \l__rbc_symbols_prop
220
         \displaystyle \frac{1}{rbc} = \frac{1}{rbc} + \frac{1}{rbc} = \frac{1}{rbc} + \frac{1}{rbc} = \frac{1}{rbc} + \frac{1}{rbc} = \frac{1}{rbc} + \frac{1}{rbc} + \frac{1}{rbc} = \frac{1}{rbc} + \frac{
         \prop_put:Nnn \l__rbc_symbols_prop { ma }
                                                                                                          { < }
         \prop_put:Nnn \l__rbc_symbols_prop { mi }
                                                                                                            { > }
         \prop_put:Nnn \l__rbc_symbols_prop { sus } { \rbc_fake_symbol:nn { sus } { } }
         \prop_put:Nnn \l__rbc_symbols_prop { add } { \<u>rbc_</u>fake_symbol:nn { add } { \<u>rbc_</u>
228
            real_add: } }
         { b \__rbc_peek_mima: }
         \prop_put:Nnn \l__rbc_symbols_prop { b }
         \prop_put:Nnn \l__rbc_symbols_prop { \# }
                                                                                                            { \# \__rbc_peek_mima: }
                                                                                                            { * }
         \prop_put:Nnn \l__rbc_symbols_prop { * }
         \prop_put:Nnn \l__rbc_symbols_prop { \k }
         \prop_put:Nnn \l__rbc_symbols_prop { \s }
        \prop_put:Nnn \l__rbc_symbols_prop { \b }
                                                                                                            { \b }
        \prop_put:Nnn \l__rbc_symbols_prop { \f }
                                                                                                            { \b }
        \prop_put:Nnn \l_rbc_symbols_prop { 6/9 } { \% }
        \prop put:Nnn \l rbc symbols prop { / }
                                                                                                            { \rbc bass note:n }
        \prop_put:Nnn \l__rbc_symbols_prop { + }
                                                                                                            { + }
         \prop_put:Nnn \l__rbc_symbols_prop { - }
                                                                                                             { - }
```

```
\prop_put:Nnn \l__rbc_symbols_prop { ° }
                                                { \textordmasculine }
   \prop_put:Nnn \l__rbc_symbols_prop { \dim } { \textordmasculine }
   \prop_put:Nnn \l__rbc_symbols_prop { ( }
                                                { ( }
   \prop_put:Nnn \l__rbc_symbols_prop { ) }
                                                { ) }
   \prop_put:Nnn \l__rbc_symbols_prop { 0 }
                                                { 0 \rbc is bass: }
245
   \prop_put:Nnn \l__rbc_symbols_prop { 1 }
                                                { 1 \rbc_is_bass: }
   \prop_put:Nnn \l__rbc_symbols_prop { 2 }
                                                { 2 \<u>rbc_</u>is_bass: }
   \prop_put:Nnn \l__rbc_symbols_prop { 3 }
                                                \prop_put:Nnn \l__rbc_symbols_prop { 4 }
                                                { 4 \rbc is bass: }
                                                { 5 \<u>rbc</u>_is_bass: }
   \prop_put:Nnn \l__rbc_symbols_prop { 5 }
                                                { 6 \<u>rbc_</u>is_bass: }
   \prop_put:Nnn \l__rbc_symbols_prop { 6 }
   \prop_put:Nnn \l__rbc_symbols_prop { 7 }
                                                \prop_put:Nnn \l__rbc_symbols_prop { 8 }
                                                { 8 \rbc is bass: }
   \prop_put:Nnn \l__rbc_symbols_prop { 9 }
                                                { 9 \<u>rbc</u>_is_bass: }
   % user commands:
256
   % the chords:
257
   \NewDocumentCommand \rbc { som }
259
        \group_begin:
260
         \IfBooleanT { #1 } { \bool_set_false:N \l__rbc_tensions_brackets_bool }
261
         \IfNoValueF { #2 } { \keys_set:nn { rbc } { #2 } }
         \bool_if:NTF \l__rbc_parse_chord_bool
            { \rbc rbc:n { #3 } }
            { \NewRealBookChords #3 }
       \group_end:
   % double extensions:
   \NewDocumentCommand \dt { om }
271
        \group begin:
          \NewRealBookChords
          \rbc_read_double_tensions:nn { #1 } { #2 }
        \group_end:
276
   % song titles:
   \tl_new:N \l__rbc_songtitle_format_left_tl
   \tl_set:Nn \l__rbc_songtitle_format_left_tl
     { \NewRealBookChords\footnotesize }
   \tl_new:N \l__rbc_songtitle_format_center_tl
   \tl_set:Nn \l__rbc_songtitle_format_center_tl
     { \NewRealBookChords\Large\centering }
284
   \tl_new:N \l__rbc_songtitle_format_right_tl
   \tl_set:Nn \l__rbc_songtitle_format_right_tl
     { \NewRealBookChords\footnotesize }
   \tl new:N \l rbc songtitle position left tl
   \tl_set:Nn \l__rbc_songtitle_position_left_tl { l }
```

```
\tl_new:N \l__rbc_songtitle_position_right_tl
    \tl_set:Nn \l__rbc_songtitle_position_right_tl { l }
    \keys_define:nn { rbc }
293
      {
294
        songtitle-format-left
                                  .tl_set:N = \l__rbc_songtitle_format_left_tl ,
        songtitle-format-center .tl_set:N = \l__rbc_songtitle_format_center_tl ,
        songtitle-format-right .tl_set:N = \l__rbc_songtitle_format_right_tl ,
                                  .tl_set:N = \l__rbc_songtitle_position_left_tl ,
        songtitle-pos-left
                                  .tl\_set:N = \lbel{eq:normalized} ll\_rbc\_songtitle\_position\_right\_tl
        songtitle-pos-right
      }
301
    \NewDocumentCommand \SongTitle { omo }
302
303
        \IfNoValueF { #1 }
304
          {
             \hbox_overlap_right:n
                 \tl_use:N \l__rbc_songtitle_format_left_tl
308
                 \tabular { @{} \l__rbc_songtitle_position_left_tl } #1 \endtabular
309
          }
        \parbox [ b ] { \dim_eval:n { \linewidth - \parindent } }
312
          { \tl use:N \l rbc songtitle format center tl #2 }
313
        \IfNoValueF { #3 }
          {
            \hbox_overlap_left:n
316
               {
317
                 \tl_use:N \l__rbc_songtitle_format_right_tl
318
                 \tabular { @{} \l__rbc_songtitle_position_right_tl } #3 \endtabular
          }
      }
322
324
    \NewDocumentCommand \RBCsetup { m } { \keys_set:nn { rbc } { #1 } }
325
326
327
    \ProcessKeysOptions { rbc }
328
    \RequirePackage { fontspec }
330
    \cs_set_eq:NN \fontspecbreve \breve
331
332
    \cs_set:Nn \rbc_new_font_family:Nnn { \newfontfamily #1 [ #2 ] { #3 } }
333
    \<u>rbc</u>_new_font_family:Nnn \NewRealBookChords
335
336
        BoldFont
                         = New~Real~Book~Chords ,
337
        ItalicFont
                         = New~Real~Book~Chords ,
```

```
BoldItalicFont = New~Real~Book~Chords ,
                     = New~Real~Book~Chords ,
        SlantedFont
340
        BoldSlantedFont = New~Real~Book~Chords ,
        SmallCapsFont = New~Real~Book~Chords ,
342
343
     { New~Real~Book~Chords}
344
    \keys_define:nn { rbc }
346
     {
347
                                    .choice: ,
        breve-version
348
        breve-version / musixtex
                                    .code:n = \cs_set_eq:NN \breve \musixtexbreve ,
349
        breve-version / fontspec
                                    .code:n = \cs_set_eq:NN \breve \fontspecbreve ,
350
        addspace-version
                                    .choice: ,
351
        addspace-version / musixtex .code:n =
         \bool_if:NT \l__rbc_load_musixtex_bool
353
            { \cs_set_eq:NN \addspace \musixtexaddspace }
354
     }
355
    \tex_endinput:D
357
358
   2013/04/25 v 0.1beta-a - minor adjustments
   2013/04/29 v 0.1
                           - added aliases f for b (flat) and s for k (sharp)
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