

realbookchords

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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 `l3kernel`¹ is needed. **REALBOOKCHORDS** also needs `xparse` (part of the `l3packages`² bundle) and `fontspec`³ 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 $\text{X}\text{\LaTeX}$ or $\text{Lua}\text{\LaTeX}$ 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 Book⁴ [Varoo] and its successor The New Real Book [Varo9]:

- 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 $\text{X}_{\text{Y}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ or $\text{L}_{\text{u}}\text{a}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ 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 $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ packages.

4 The Fonts

Now first let's take a look at the fonts. You can get them⁵ at <http://notation.jochenpietsch.de/>. They are placed under the Creative Commons Attribution-Noncommercial-Share Alike 3.0 Unported License . Jochen Pietsch who designed the fonts says there that he doesn't develop the fonts any further so we have to live with any shortcomings:

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**.

```
1 % from the preamble of this document
2 \newfontfamily\RealBookTitle{Real Book Title}
3 \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:

```
1 \normalsize\NewRealBookChords ABCDEFGHIJKLMNOPQRSTUVWXYZ \\
2 a cdefghijklmnopqrstuvwxyz 0123456789 \\
3 .,:!/*='\"&()[]+-\textordmasculine\% \\
4 b\{a}\ss{\} \#{\~{a}}? < > ; {\makeatletter @} \_ \\
5 \'{a} \aa{\} \'{a} \^{a} \^{A} \^{A} \^{A} \~{A} \~{A} \AA{} \AE{} \'{E} \'{E}
  \'{E}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
a cdefghijklmnopqrstuvwxyz 0123456789
.,:!*='\"&()[]+-\textordmasculine\%
b\{a}\ss{\} \#{\~{a}}? < > ; {\makeatletter @} _ \\
\'{a} \aa{\} \'{a} \^{a} \^{A} \^{A} \^{A} \~{A} \~{A} \AA{} \AE{} \'{E} \'{E}
\'{E}

4.2 Real Book Title

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

```
1 \normalsize\RealBookTitle ABCDEFGHIJKLMNOPQRSTUVWXYZ \\
2 abcdefghijklmnopqrstuvwxyz 01234 6 -/_
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ 01234 6 -/_

4.3 RealBook Chords

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

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

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

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 ø) 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:

```
\rbc{Ab9} \rbc{Cmi} \rbc{E+} \rbc{Gma9} \rbc{F\#mi9} \rbc{Db13}
```

$A^{b9} C_{mi} E^+ G_{ma}^9 F^{\#mi}{}^9 D^{b13}$

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

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

$A^{b9} C_{mi} E^+ G_{ma}^9 F^{\#mi}{}^9 D^{b13}$

The font provides the characters **MI** and **MA**. `\jc` replaces the strings `mi` and `ma` with them. You have also seen that a `b` gives b 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 altered extensions. **REALBOOKCHORDS** defines two macros to access the characters b and $^{\#}$ easily:

► `\b`
minor/diminished extension

► `\k`
major/augmented extension

Let's see them in action:

```
1 \rbc{Fmi7(\b5)} \rbc{G7(\k9)} \rbc{Eb7(\b9)} \rbc{Db9(\k11)} \rbc{Cmi7(5-)}
FMi7(b5) G7(#9) Eb7(b9) Db9(#11) CMi7(5-)
```

There are also six “extension descriptions”:

```
1 \rbc{Cmaj9} \rbc{Bbadd9} \rbc{Gsus4} \rbc{Ealt} \rbc{F7omit3} \rbc{D\#dim} \
Cmaj9 Bbadd9 Gsus4 Ealt. F7omit3 D#dim.
```

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 = true|false` Default: false
switch between original characters and faked ones.

```
1 \RBCsetup{use-fake-symbols}
2 \rbc{Cmaj9} \rbc{Bbadd9} \rbc{Gsus4} \rbc{Ealt} \rbc{F7omit3} \rbc{D\#dim}
Cmaj9 Bbadd9 Gsus4 Ealt. F7omit3 D#dim.
```

6.3 Double Extensions

Sometimes more than one altered 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{<intervals>}`
`\rbc{\bb{13,9}}` ^(b13)_(b9)

► `\bk{<intervals>}`
`\rbc{\bk{13,9}}` ^(b13)_(#9)

► `\kb{<intervals>}`
`\rbc{\kb{13,9}}` ^(#13)_(b9)

► `\kk{<intervals>}`
`\rbc{\kk{13,9}}` ^(#13)_(#9)

► `\dt[<alterations>]{<intervals>}`
`\dt[bb]{13,9}` ^(b13)_(b9)

There are four different combinations of alterations. For each there is a macro. 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 `\dt` is *not only inside* `\rbc` defined but can also be used in normal text.

All possible [`<alterations>`] are shown below:

```
1 \dt{13,9} \dt[bb]{13,9} \dt[bk]{13,9} \dt[kb]{13,9} \dt[kk]{13,9} \dt[B
  ]{13,9} \dt[K]{13,9} \dt[b]{13,9} \dt[k]{13,9}
  (13) (b13) (b13) (#13) (#13) (b13) (#13) (13) (13)
```

The intervall numbers for both extensions are given seperated with a comma. If the combination is present as a character like for example ¹³₉ then the character is used else it is faked:

► `fake-double-extensions = true|false` Default: false
 when true *all* double extension numbers are faked.

► `double-extensions-brackets = true|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].

```
1 \rbc{Eb7\bk{9,5}} \rbc[double-extensions-brackets=false]{C\dt{9,6}} \rbc*{C\
  dt{9,6}} \rbc*{C[\bk{13,9}]}
```

E^{b7}_(#5) C⁹₆ C⁹₆ C^(b13)_(#9)

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:

```
1 \rbc{Cmi7/{Bb}} \rbc{C7/G} \rbc{C/G} \rbc{E7/{G\#}}
```

$$C_{M\text{I}}^7 / B^b \quad C^7 / G \quad C / G \quad E^7 / G^\sharp$$

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:

```
1 \NewRealBookChords Ama7(omit3) [major] Ama7(omit3) (major)
```

You can also use the following option:

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

```
1 \texttt{parse=true}: \rbc{Ama7(omit3) [major]} \\  
2 \texttt{parse=false}: \rbc[parse=false]{Ama7(omit3) [major]}  
  
parse=true: Ama7(omit3) (major)  
parse=false: Ama7(omit3) (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>` Default: `\NewRealBookChords\footnotesize`
Format of the text to the left.
- `songtitle-format-center = <code>` Default: `\NewRealBookChords\Large\centering`
Format of the text in the center.
- `songtitle-format-right = <code>` Default: `\NewRealBookChords\footnotesize`
Format of the text to the right.
- `songtitle-pos-left = l|c|r` Default: l
Alignment of the text to the left.
- `songtitle-pos-right = l|c|r` Default: l
Alignment of the text to the right.

As an example: the following code ...

```

1 \SongTitle{Begin The Beguine}
2 \par\vskip\baselineskip
3 \SongTitle[Medium Swing Tempo]{Begin The Beguine}
4 \par\vskip\baselineskip
5 \SongTitle{Begin The Beguine}[Cole Porter\arr.: Jerry Sears]
6 \par\vskip\baselineskip
7 \RBCsetup{songtitle-pos-right=r}
8 \SongTitle{Begin The Beguine}[Cole Porter\arr.: Jerry Sears]

```

... produces this:

	<i>Begin The Beguine</i>	
<i>Medium Swing Tempo</i>	<i>Begin The Beguine</i>	
	<i>Begin The Beguine</i>	<i>Cole Porter</i> <i>arr.: Jerry Sears</i>
	<i>Begin The Beguine</i>	<i>Cole Porter</i> <i>arr.: Jerry Sears</i>

8 See it in Action

Let's use the `\rbc` command together with `musixtex`⁶ for a real example. Both `fontspec` which is loaded by `REALBOOKCHORDS` and `musixtex` define the command `\breve`. The definition by `fontspec` takes place `\AtBeginDocument`.

A similar problem arises when `musixtex` is used together with `biblatex`⁷: they both define `\addspace`.

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

```

1 \documentclass{article}
2 \usepackage{musixtex}
3 \let\mbreve\breve
4 \let\breve\relax
5 \usepackage{realbookchords}
6 \begin{document}
7   do stuff, e.g. restore the 'musixtex' definition of \breve
8 \end{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.

⁶ CTAN: `musixtex` ⁷ CTAN: `biblatex`


```

1 \documentclass{article}
2 \usepackage[load-musixtex]{realbookchords}
3 \begin{document}
4   do stuff, e.g. restore the 'musixtex' definition of \breve
5 \end{document}

```

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:

```

1 \begin{music}
2 \let\addspace\musixtexaddspace
3 \parindent0pt \generalmeter{\meterfrac{4}{4}}\setsign{1}{-3}\nobarnumbers
4 \SongTitle{Blue Bossa}{\Kenny Durham}
5 \startpiece
6 \addspace{.5\afterruleskip}%
7 \NOTes\qa g\en
8 \doublebar % 1
9 \NOTes\Uptext{\rbc{Cmi6}}\qlp n\en
10 \Notes\ca l\en
11 \Notes\qa k\en
12 \Notes\isluru0j\ca j\en
13 \bar % 2
14 \NOTes\tslur0j\hlp j\en
15 \NOTes\qa i\en
16 \bar % 3
17 \NOTes\Uptext{\rbc{Fmi7}}\ha h\en
18 \Notes\qlp n\en
19 \Notes\isluru0m\ca m\en

```

```

20 \bar % 4
21 \NOTEs\tslur0m\wh m\en
22 \bar % 5
23 \NOTes\Uptext{\rbc{Dmi7(\b5)}}\qlp m\en
24 \Notes\ca{lk}\qa j\en
25 \Notes\isluru0i\ca i\en
26 \bar % 6
27 \NOTEs\Uptext{\rbc{G7(\k5)}}\tslur0i\hlp i\en
28 \Notes\qa h\en
29 \bar % 7
30 \NOTes\Uptext{\rbc{Cmi6}}\ha g\en
31 \Notes\qlp m\isluru0l\ca l\en
32 \bar % 8
33 \NOTEs\tslur0l\wh l\en
34 \endpiece
35 \end{music}

```

Blue Bossa Kenny Durham

References

- [Pie] Jochen Pietsch. *Jazz Fonts*. URL: http://notation.jochenpietsch.de/index_e.html (visited on 05/10/2012).
- [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

```

35 \RequirePackage{expl3}[2012/03/03]
36 \ProvidesExplPackage
37   {realbookchords}
38   {2013/04/25}

```

```

39 {0.1beta-a}
40 {Typesetting jazz chords the 'Real Book' way}
41
42 \msg_new:nnnn { realbookchords } { wrong-engine }
43 { 'realbookchords'~needs~either~to~be~run~with~XeLaTeX~or~with~LuaLaTeX. }
44 {
45   'realbookchords'~needs~either~to~be~run~with~XeLaTeX~or~with~LuaLaTeX.~
46   Since~you're~using~something~different~I~will~abort!
47 }
48
49 \bool_if:nF { \xetex_if_engine_p: || \luatex_if_engine_p: }
50 { \msg_error:nn { realbookchords } { wrong-engine } \tex_endinput:D }
51
52 \RequirePackage { xparse , l3keys2e }
53
54 \tl_new:N \l__rbc_tmpa_tl
55 \tl_new:N \l__rbc_tmpb_tl
56
57 % Options:
58 \bool_new:N \l__rbc_tensions_brackets_bool
59 \bool_set_true:N \l__rbc_tensions_brackets_bool
60 \bool_new:N \l__rbc_fake_symbols_bool
61 \bool_new:N \l__rbc_parse_chord_bool
62 \bool_set_true:N \l__rbc_parse_chord_bool
63 \bool_new:N \l__rbc_fake_double_numbers_bool
64 \bool_new:N \l__rbc_load_musixtex_bool
65
66 \keys_define:nn { rbc }
67 {
68   double-extensions-brackets .bool_set:N = \l__rbc_tensions_brackets_bool ,
69   double-extensions-brackets .default:n = true ,
70   use-fake-symbols .bool_set:N = \l__rbc_fake_symbols_bool ,
71   use-fake-symbols .default:n = true ,
72   fake-double-extensions .bool_set:N = \l__rbc_fake_double_numbers_bool ,
73   fake-double-extensions .default:n = true ,
74   parse .bool_set:N = \l__rbc_parse_chord_bool ,
75   parse .default:n = true ,
76   load-musixtex .code:n =
77     \bool_set_true:N \l__rbc_load_musixtex_bool
78     \@ifpackageloaded{musixtex}{}
79     {
80       \RequirePackage { musixtex }
81       \cs_set_eq:NN \musixtexbreve \breve
82       \cs_undefine:N \breve
83       \cs_set_eq:NN \musixtexaddspace \addspace
84       \cs_undefine:N \addspace
85     }
86 }
87

```

```

88 % double tensions
89 \cs_new:Npn \rbc_bb:n #1 { \rbc_read_double_tensions:nn { bb } { #1 } }
90 \cs_new:Npn \rbc_kk:n #1 { \rbc_read_double_tensions:nn { kk } { #1 } }
91 \cs_new:Npn \rbc_bk:n #1 { \rbc_read_double_tensions:nn { bk } { #1 } }
92 \cs_new:Npn \rbc_kb:n #1 { \rbc_read_double_tensions:nn { kb } { #1 } }
93
94 \cs_new:Npn \rbc_b: { B }
95 \cs_new:Npn \rbc_k: { ? }
96
97 \prop_new:N \l__rbc_double_tensions_signs_prop
98 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { bb } { \'{a} }
99 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { kk } { \aa{} }
100 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { bk } { \'{a} }
101 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { kb } { \^{a} }
102 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { B } { \rbc_b: }
103 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { K } { \rbc_k: }
104 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { b } { \'{a} }
105 \prop_put:Nnn \l__rbc_double_tensions_signs_prop { k } { \~{a} }
106
107 \prop_new:N \l__rbc_double_tensions_numbers_prop
108 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 5,5 } { \'{A} }
109 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 9,5 } { \'{A} }
110 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 11,5 } { \^{A} }
111 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,5 } { \~{A} }
112 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 7,6 } { \'{E} }
113 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 9,9 } { \'{A} }
114 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 11,9 } { \AA{} }
115 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,9 } { \AE{} }
116 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,11 } { \'{E} }
117 \prop_put:Nnn \l__rbc_double_tensions_numbers_prop { 13,13 } { \'{E} }
118
119 \cs_new_protected:Npn \rbc_read_double_tensions:nn #1#2
120 {
121   \bool_if:NT \l__rbc_tensions_brackets_bool { [ ] }
122   \prop_get:NnNT \l__rbc_double_tensions_signs_prop { #1 } \l__rbc_tmpa_tl
123   { \tl_use:N \l__rbc_tmpa_tl \tl_clear:N \l__rbc_tmpa_tl }
124   \bool_if:NTF \l__rbc_fake_double_numbers_bool
125   { \rbc_fake_double_numbers:w #2 \q_stop }
126   {
127     \prop_get:NnNTF \l__rbc_double_tensions_numbers_prop { #2 } \l__rbc_tmpb_tl
128     { \tl_use:N \l__rbc_tmpb_tl \tl_clear:N \l__rbc_tmpb_tl }
129     { \rbc_fake_double_numbers:w #2 \q_stop }
130   }
131   \bool_if:NT \l__rbc_tensions_brackets_bool { ] }
132 }
133
134 \cs_new_protected:Npn \rbc_dt:w
135 { \peek_meaning:NTF [ { \rbc_dt_auxi:w } { \rbc_dt_auxii:n } }
136

```

```

137 \cs_new:Npn \rbc_dt_auxi:w [#1]#2
138 { \rbc_read_double_tensions:nn { #1 } { #2 } }
139
140 \cs_new:Npn \rbc_dt_auxii:n #1
141 { \rbc_read_double_tensions:nn { } { #1 } }
142
143 \cs_new:Npn \rbc_fake_double_numbers:w #1,#2 \q_stop
144 {
145   \box_move_up:nn { .0ex } { \hbox:n { \addfontfeatures { Scale=.9 } #1 } }
146   \tex_kern:D -.5ex
147   \box_move_down:nn { .85ex } { \hbox:n { \addfontfeatures { Scale=.9 } #2 } }
148 }
149
150 % main command:
151 \cs_new_protected:Npn \rbc_rbc:n #1
152 {
153   \group_begin:
154   \cs_set_eq:NN \bb \rbc_bb:n
155   \cs_set_eq:NN \bk \rbc_bk:n
156   \cs_set_eq:NN \kb \rbc_kb:n
157   \cs_set_eq:NN \kk \rbc_kk:n
158   \cs_set_eq:NN \dt \rbc_dt:w
159   \cs_set_eq:NN \b \rbc_b:
160   \cs_set_eq:NN \k \rbc_k:
161   \tl_set:Nn \l__rbc_tmpa_tl { #1 }
162   \prop_map_inline:Nn \l__rbc_symbols_prop
163   {
164     \tl_set_rescan:Nnn \l__rbc_tmpb_tl { } { ##1 }
165     \tl_replace_all:NvN \l__rbc_tmpa_tl { \l__rbc_tmpb_tl } { ##2 }
166   }
167   \NewRealBookChords \tl_use:N \l__rbc_tmpa_tl
168   \group_end:
169 }
170 \cs_generate_variant:Nn \tl_replace_all:Nnn { NV }
171
172 % bass notes:
173 \cs_new:Npn \rbc_bass_note:n #1
174 { / \box_move_down:nn { 1.25ex } { \hbox:n { \addfontfeatures { Scale=.75 } #1 } }
175 }
176
177 \cs_new_protected:Npn \rbc_is_bass:
178 { \peek_meaning:NT \rbc_bass_note:n { \tex_kern:D -.35ex } }
179
180 % fake symbols:
181 \cs_new:Npn \rbc_fake_symbol:nn #1#2
182 {
183   \bool_if:nTF { \tl_if_blank_p:n { #2 } || \l__rbc_fake_symbols_bool }
184   {
185     \box_move_up:nn { 1.05ex }

```

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185         { \hbox:n { \addfontfeatures { Scale=.565 } #1 \tex_kern:D .1ex } }
186     }
187     { #2 }
188 }
189
190 \cs_new_protected:Npn \__rbc_peek_mima:
191 {
192     \peek_meaning:NTF >
193     { \tex_kern:D -.4ex }
194     { \peek_meaning:NTF > { \tex_kern:D -.4ex } }
195 }
196
197 \group_begin:
198 \char_set_catcode_letter:N \@
199 \cs_gset:Npn \rbc_fake_add: { @ }
200 \group_end:
201
202 % symbols; strings to be replaced when parse=true
203 \prop_new:N \l__rbc_symbols_prop
204 \prop_put:Nnn \l__rbc_symbols_prop { omit } { \rbc_fake_symbol:nn { omit } { ; } }
205 \prop_put:Nnn \l__rbc_symbols_prop { dim } { \rbc_fake_symbol:nn { dim. } { \_ } }
206 \prop_put:Nnn \l__rbc_symbols_prop { maj } { \rbc_fake_symbol:nn { maj } { } }
207 \prop_put:Nnn \l__rbc_symbols_prop { ma } { < }
208 \prop_put:Nnn \l__rbc_symbols_prop { mi } { > }
209 \prop_put:Nnn \l__rbc_symbols_prop { alt } { \rbc_fake_symbol:nn { alt. } { } }
210 \prop_put:Nnn \l__rbc_symbols_prop { sus } { \rbc_fake_symbol:nn { sus } { } }
211 \prop_put:Nnn \l__rbc_symbols_prop { add } { \rbc_fake_symbol:nn { add } { \rbc_
    fake_add: } }
212 \prop_put:Nnn \l__rbc_symbols_prop { b } { b \__rbc_peek_mima: }
213 \prop_put:Nnn \l__rbc_symbols_prop { \# } { \# \__rbc_peek_mima: }
214 \prop_put:Nnn \l__rbc_symbols_prop { * } { * }
215 \prop_put:Nnn \l__rbc_symbols_prop { \k } { ? }
216 \prop_put:Nnn \l__rbc_symbols_prop { \b } { \b }
217 \prop_put:Nnn \l__rbc_symbols_prop { 6/9 } { \% }
218 \prop_put:Nnn \l__rbc_symbols_prop { / } { \rbc_bass_note:n }
219 \prop_put:Nnn \l__rbc_symbols_prop { + } { + }
220 \prop_put:Nnn \l__rbc_symbols_prop { - } { - }
221 \prop_put:Nnn \l__rbc_symbols_prop { ° } { \textordmasculine }
222 \prop_put:Nnn \l__rbc_symbols_prop { \dim } { \textordmasculine }
223 \prop_put:Nnn \l__rbc_symbols_prop { ( } { ( }
224 \prop_put:Nnn \l__rbc_symbols_prop { ) } { ) }
225 \prop_put:Nnn \l__rbc_symbols_prop { 0 } { 0 \rbc_is_bass: }
226 \prop_put:Nnn \l__rbc_symbols_prop { 1 } { 1 \rbc_is_bass: }
227 \prop_put:Nnn \l__rbc_symbols_prop { 2 } { 2 \rbc_is_bass: }
228 \prop_put:Nnn \l__rbc_symbols_prop { 3 } { 3 \rbc_is_bass: }
229 \prop_put:Nnn \l__rbc_symbols_prop { 4 } { 4 \rbc_is_bass: }
230 \prop_put:Nnn \l__rbc_symbols_prop { 5 } { 5 \rbc_is_bass: }
231 \prop_put:Nnn \l__rbc_symbols_prop { 6 } { 6 \rbc_is_bass: }
232 \prop_put:Nnn \l__rbc_symbols_prop { 7 } { 7 \rbc_is_bass: }

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233 \prop_put:Nnn \l__rbc_symbols_prop { 8 } { 8 \rbc_is_bass: }
234 \prop_put:Nnn \l__rbc_symbols_prop { 9 } { 9 \rbc_is_bass: }
235
236 % user commands:
237 % the chords:
238 \NewDocumentCommand \rbc { som }
239 {
240   \group_begin:
241     \IfBooleanT { #1 } { \bool_set_false:N \l__rbc_tensions_brackets_bool }
242     \IfNoValueF { #2 } { \keys_set:nn { rbc } { #2 } }
243     \bool_if:NTF \l__rbc_parse_chord_bool
244       { \rbc_rbc:n { #3 } }
245       { \NewRealBookChords #3 }
246   \group_end:
247 }
248
249 % double extensions:
250 \NewDocumentCommand \dt { om }
251 {
252   \group_begin:
253     \NewRealBookChords
254     \rbc_read_double_tensions:nn { #1 } { #2 }
255   \group_end:
256 }
257
258 % song titles:
259 \tl_new:N \l__rbc_songtitle_format_left_tl
260 \tl_set:Nn \l__rbc_songtitle_format_left_tl
261   { \NewRealBookChords\footnotesize }
262 \tl_new:N \l__rbc_songtitle_format_center_tl
263 \tl_set:Nn \l__rbc_songtitle_format_center_tl
264   { \NewRealBookChords\Large\centering }
265 \tl_new:N \l__rbc_songtitle_format_right_tl
266 \tl_set:Nn \l__rbc_songtitle_format_right_tl
267   { \NewRealBookChords\footnotesize }
268 \tl_new:N \l__rbc_songtitle_position_left_tl
269 \tl_set:Nn \l__rbc_songtitle_position_left_tl { l }
270 \tl_new:N \l__rbc_songtitle_position_right_tl
271 \tl_set:Nn \l__rbc_songtitle_position_right_tl { l }
272
273 \keys_define:nn { rbc }
274 {
275   songtitle-format-left .tl_set:N = \l__rbc_songtitle_format_left_tl ,
276   songtitle-format-center .tl_set:N = \l__rbc_songtitle_format_center_tl ,
277   songtitle-format-right .tl_set:N = \l__rbc_songtitle_format_right_tl ,
278   songtitle-pos-left .tl_set:N = \l__rbc_songtitle_position_left_tl ,
279   songtitle-pos-right .tl_set:N = \l__rbc_songtitle_position_right_tl
280 }
281

```

```

282 \NewDocumentCommand \SongTitle { omo }
283 {
284   \IfNoValueF { #1 }
285   {
286     \hbox_overlap_right:n
287     {
288       \tl_use:N \l__rbc_songtitle_format_left_tl
289       \tabular { @{} \l__rbc_songtitle_position_left_tl } #1 \endtabular
290     }
291   }
292   \parbox [ b ] { \dim_eval:n { \linewidth - \parindent } }
293   { \tl_use:N \l__rbc_songtitle_format_center_tl #2 }
294   \IfNoValueF { #3 }
295   {
296     \hbox_overlap_left:n
297     {
298       \tl_use:N \l__rbc_songtitle_format_right_tl
299       \tabular { @{} \l__rbc_songtitle_position_right_tl } #3 \endtabular
300     }
301   }
302 }
303
304 % setup
305 \NewDocumentCommand \RBCsetup { m } { \keys_set:nn { rbc } { #1 } }
306
307 \ProcessKeysOptions { rbc }
308
309 \RequirePackage { fontspec }
310
311 \cs_set_eq:NN \fontspecbreve \breve
312
313 \cs_set:Nn \rbc_new_font_family:Nnn { \newfontfamily #1 [ #2 ] { #3 } }
314
315 \rbc_new_font_family:Nnn \NewRealBookChords
316 {
317   BoldFont      = New~Real~Book~Chords ,
318   ItalicFont    = New~Real~Book~Chords ,
319   BoldItalicFont = New~Real~Book~Chords ,
320   SlantedFont   = New~Real~Book~Chords ,
321   BoldSlantedFont = New~Real~Book~Chords ,
322   SmallCapsFont = New~Real~Book~Chords ,
323 }
324 { New~Real~Book~Chords}
325
326 \keys_define:nn { rbc }
327 {
328   breve-version .choice: ,
329   breve-version / musixtex .code:n = \cs_set_eq:NN \breve \musixtexbreve ,
330   breve-version / fontspec .code:n = \cs_set_eq:NN \breve \fontspecbreve ,

```



```

331     addspace-version           .choice: ,
332     addspace-version / musixtex .code:n =
333     \bool_if:NT \l__rbc_load_musixtex_bool
334     { \cs_set_eq:NN \addspace \musixtexaddspace }
335   }
336
337 \tex_endinput:D
338
339 2013/04/25 v 0.1beta-a - minor adjustments

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