

The Contra Card Project

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1 Introduction

The **Contra Card** project is designed to aid in the formatting and typesetting of caller cards for traditional square and line dances.

The project comprises a \LaTeX package (`contracard.sty`) and a \LaTeX class (`contracard.cls`). The package provides the core functionality of Contra Card while the class file acts as a convenience wrapper for making calling cards.

1.1 About the source

Contributions are welcome, and the latest development version of the project can always be found at <https://github.com/samwhited/contracard>.

1.2 License

This project may be distributed and/or modified under the conditions of the L^AT_EX Project Public License, either version 1.3c of this license or (at your opinion) any later version. The latest version of this license is in:

<http://www.latex-project.org/lppl.txt>

and version 1.3c or later is part of all distributions of L^AT_EX version 2008/05/04 or later.

2 Building and using contracard

Dependencies Before building the `contracard` package you should verify that the following dependencies are installed:

```
1 <*contracard-pkg>
2 \RequirePackage{intcalc}
3 \RequirePackage{ifthen}
4 </contracard-pkg>
```

If you're using the class, you'll want the following additional dependencies:

```
5 <*contracard-cls>
6 \AtEndOfClass{\RequirePackage{geometry}}
7 \AtEndOfClass{\RequirePackage[compact]{titlesec}}
8 \AtEndOfClass{\RequirePackage{contracard}}
9 </contracard-cls>
```

```
10 <*contracard-pkg>
```

```
d
```

Building Once you have all the required packages, building `contracard` from source can be accomplished in multiple ways. If the Makefile is present running `make help` will tell you everything you need to know. To manually extract the files and generate the documentation simply run `pdflatex` against `contracard.dtx`:

```
$ pdflatex --shell-escape contracard.dtx
```

The `--shell-escape` option is only required if you want the output to contain version information. This will also require that you have `git` installed as the version is determined by running

```
$ git describe --tags
```

Using `contracard` Building results in two main files, a class and a package. In general, if you want to make a calling card, use the `contracard` class and if you want to print a contra dance in a book or article, use a different class and require the `contracard` package.

3 Formatting

These options determine how the dance will look.

<code>\defaultcontraenv</code> <code>\dancetitleenv</code>	By default, all contra moves and the title block are wrapped in the <code>flushleft</code> environment. To change this you can renew the following macros: <pre>11 \newcommand*\defaultcontraenv{\flushleft} 12 \newcommand*\dancetitleenv{\flushleft}</pre>
<code>\dancetitleformat</code> <code>\danceauthorformat</code> <code>\danceformformat</code>	To change the formatting of a dance's title, author, or form, redefine the following macros: <pre>13 \newcommand*\dancetitleformat{\section*} 14 \newcommand*\danceauthorformat{\subsection*} 15 \newcommand*\danceformformat{\hfill}</pre>
<code>\movedelimiter</code> <code>\partdelimiter</code> <code>\midpartdelimiter</code>	These commands define delimiters that are used between moves, or at the midway point in a part. <pre>16 \newcommand*\movedelimiter{\,} 17 \newcommand*\partdelimiter{\.} 18 \newcommand*\midpartdelimiter{\;;}</pre>

4 The Meat

Next we'll define the meat of the `contracard` package. These are the functions, counters, and environments that actually deal with generating a dance.

4.1 Musical counts and phrases

<code>dancecount</code> <code>partcount</code> <code>phrasecount</code> <code>dancepart</code> <code>dancephrase</code>	First we'll create some counters that will help us keep track of the counts (or 'steps') in the dance. The <code>dancecount</code> is reset at the start of each new dance, the <code>partcount</code> is reset at the beginning of each part (eg. A1 or B1), and the <code>phrasecount</code> is reset every time the part changes (eg. from A to B). The <code>dancepart</code> and <code>dancephrase</code> counters contain the number of the part of phrase in the dance (instead of the number of steps). <pre>19 \newcounter{dancecount} 20 \newcounter{partcount} 21 \newcounter{phrasecount} 22 \newcounter{dancepart} 23 \newcounter{dancephrase}</pre>
---	--

`\resetdancephrase` The phrase will continue to increment (A, B, C) unless the user resets it by calling
`\resetdancepart` `\resetdancephrase`. The user can also manually reset the part. If the value of the phrase or part would be the same after resetting, no action is taken.

```

24 \newcommand*{\resetdancephrase}{%
25   \ifthenelse{\value{partcount}=16}{\newline}{}%
26   \@ifstar{\@resetdancephraseStar}{\@resetdancephraseNoStar}%
27 }
28 \newcommand*{\@resetdancephraseStar}{%
29   \setcounter{dancephrase}{1}%
30   \setcounter{phrasecount}{0}%
31   \resetdancepart*
32 }
33 \newcommand*{\@resetdancephraseNoStar}{%
34   \ifthenelse{\value{dancephrase}=1}{\}%
35   \setcounter{dancephrase}{1}%
36   \setcounter{phrasecount}{0}%
37   \resetdancepart
38 }%
39 }
40 \newcommand*{\resetdancepart}{%
41   \@ifstar{\@resetdancepartStar}{\@resetdancepartNoStar}%
42 }
43 \newcommand*{\@resetdancepartStar}{%
44   \setcounter{dancepart}{1}%
45   \setcounter{partcount}{0}%
46 }
47 \newcommand*{\@resetdancepartNoStar}{%
48   \ifthenelse{\value{dancepart}=1}{\}%
49   \setcounter{dancepart}{1}%
50   \setcounter{partcount}{0}%
51 }%
52 }

```

`\newdancephrase` The user can also manually start a new phrase or part:

```

\newdancepart
53 \newcommand*{\newdancephrase}{%
54   \ifthenelse{\not\value{phrasecount}=0\and\not\value{phrasecount}=32}{\newline}{}%
55   \addtocounter{dancephrase}{1}%
56   \setcounter{phrasecount}{0}%
57   \resetdancepart*
58 }
59 \newcommand*{\newdancepart}{%
60   \addtocounter{dancepart}{1}%
61   \setcounter{partcount}{0}%
62 }

```

4.2 The contra environment

`contra` The contra environment is pretty simple. It resets the various counters, and displays some information about the dance—if it is used inside of the `contracard` class, it also clears the page and moves the dance form into the header.

```

63 \newenvironment{contra}[4][\defaultcontraenv]{%
64   \setcounter{dancecount}{0}
65   \resetdancepart*
66   \resetdancephrase*
67   \ifdefined\@ccisclass\clearpage\fi%
68   \begin{\dancetitleenv}
69     \ifdefined\@ccisclass%
70       \pagestyle{myheadings}
71       \thispagestyle{myheadings}
72       \markboth{}{\danceformformat{#4}}
73     \else%
74       {\danceformformat{#4}}%
75     \fi%
76     {\dancetitleformat{#2}}%
77     {\danceauthorformat{#3}}%
78   \end{\dancetitleenv}
79   \newcommand*{\@contraenv}{#1}
80   \begin{\@contraenv}
81 }{%
82   \end{\@contraenv}
83 }

```

4.3 The \move command

`\move` The next thing we need to define is the `\move` command. This command takes in a move to display, and (optionally) the number of counts the move takes. If the count is not specified, 16 is used as the default.

```

84 \newcommand*{\move}[2][16]{%
85   \ifthenelse{\value{partcount}=16}{\newline}{}%
86   \ifthenelse{\value{phrasecount}=32}{%
87     \newdancephrase%
88   }{%
89     \ifthenelse{\value{partcount}=16}{%
90       \newdancepart%
91     }{}%
92   }
93   \ifthenelse{\intcalcMod{\value{dancecount}}{16}=0}{%
94     \Alph{dancephrase}\arabic{dancepart}\partdelimiter\ %
95   }{}%
96   \addtocounter{dancecount}{#1}%
97   \addtocounter{phrasecount}{#1}%
98   \addtocounter{partcount}{#1}%
99   #2%
100  \ifthenelse{\value{phrasecount}=32}{%
101    \pagebreak[1]\vspace{1em}%
102  }{}%
103  \ifthenelse{\value{partcount}=8}{\midpartdelimiter\nopagebreak}{%
104    \ifthenelse{\not\value{partcount}=16}{\movedelimiter\nopagebreak\nolinebreak[2]}{}%
105  }

```

106 </contracard-pkg>
107 <*contracard-cls>

5 The contracard class

The Contra Card project also provides a class (also called `contracard`) that acts as a convenience wrapper around the core functionality provided by the package. This is useful for generating calling cards, and saves you the trouble of looking up standard card sizes and figuring out margins and where to put headings and the like.

5.1 Options

```
small  The class can be loaded with any of the following options:
medium
large
a7paper
108 \DeclareOption{small}{%
109   \AtBeginDocument{%
110     \titleformat{\section}{\normalsize\bfseries}{\thesection}{1em}{}%
111     \titleformat{\subsection}{\normalsize}{\thesection}{1em}{}%
112   }
113   \PassOptionsToPackage{%
114     margin=0.25in,top=0.75in,paperwidth=5in,paperheight=3in%
115   }{geometry}%
116 }
117 \DeclareOption{medium}{%
118   \AtBeginDocument{\large}
119   \PassOptionsToPackage{%
120     margin=0.5in,top=0.75in,paperwidth=6in,paperheight=4in%
121   }{geometry}%
122 }
123 \DeclareOption{large}{%
124   \AtBeginDocument{\Large}
125   \PassOptionsToPackage{%
126     margin=0.75in,top=1in,paperwidth=8in,paperheight=5in%
127   }{geometry}%
128 }
129 \DeclareOption{a7paper}{%
130   \AtBeginDocument{%
131     \titleformat{\section}{\normalsize\bfseries}{\thesection}{1em}{}%
132     \titleformat{\subsection}{\normalsize}{\thesection}{1em}{}%
133   }
134   \PassOptionsToPackage{%
135     margin=5mm,top=15mm,paperwidth=105mm,paperheight=74mm%
136   }{geometry}%
137 }
138 \DeclareOption*{%
139   \PassOptionsToClass{\CurrentOption}{article}%
140 }
```

The `small` option creates a 127.0 by 76.2 mm (5 by 3 in) card. The `medium` option creates a 152.4 by 101.6 mm (6 by 4 in) card. The `large` option creates a 203.2 by 27.0 mm (8 by 5 in) card. The `a7paper` option creates a 105 by 74 mm (4.1 by 2.9 in) card. Any unrecognized options are passed to the `article` class.

5.2 Environment setup

The `contracard` class does a little extra work to turn off headers, and prevent page numbering:

```
141 \AtBeginDocument{\pagestyle{empty}}
142 \AtBeginDocument{\pagenumbering{gobble}}
```

It also defines a command `\@ccisclass` to let the `contracard` package know that it was called via the class:

```
143 \newcommand*{\@ccisclass}{}
144 \ProcessOptions\relax
145 \</contracard-cls>
```

6 Examples

A few examples are contained below:

6.1 Code's Compiling by Sam Whited

```
\begin{contra}{Code's Compiling}{Sam Whited}{Duple becket}
  \move[8]{Neighbor dosido}
  \move[8]{Partner see saw}
  \move{Shadow swing}
  \move[8]{Balance and petronella}
  \move[8]{Balance and petronella}
  \move[8]{Partner swing}
  \move[8]{Left diagonal: Right and left through}
  \vspace*{2em}
  \begin{flushright}
    \href{http://creativecommons.org/licenses/by/3.0/}{%
      \IfFileExists{by.png}{\includegraphics[width=40px]{by.png}}{\cc\by}}
  \end{flushright}
\end{contra}
```

Code's Compiling

Sam Whited

A1. Neighbor dosido; Partner see saw

A2. Shadow swing

B1. Balance and petronella; Balance and petronella

B2. Partner swing; Left diagonal: Right and left through



6.2 Untitled Blues Contras by Seth Tepfer

```
\renewcommand*{\partdelimiter}{:}
\begin{contra}{Untitled Blues \textnumero\ 1}{\href{http://www.dancerhapsody.com/calli.
  \move[8]{Neighbor gypsy}
  \move[8]{Ladies gypsy}
  \newdancephrase
  \move[16]{Partner balance and swing}
  \newdancephrase
  \move[8]{Ladies chain}
  \move[8]{Left hand star}
  \vspace*{2em}
  \begin{flushright}
  \href{http://creativecommons.org/licenses/by-nc/3.0/}{%
    \IfFileExists{by-nc.png}{\includegraphics[width=40px]{by-nc.png}}{\cc\bync}}
  \end{flushright}
\end{contra}
\begin{contra}{Untitled Blues \textnumero\ 2}{\href{http://www.dancerhapsody.com/calli.
  \move[8]{Neighbor gypsy}
  \move[8]{Gents allemande left 1\texttonehalf}
  \newdancephrase
  \move[16]{Partner balance and swing}
  \newdancephrase
  \move[8]{\texttonehalf\ promenade across set}
  \move[8]{Ladies chain}
  \vspace*{2em}
  \begin{flushright}
  \href{http://creativecommons.org/licenses/by-nc/3.0/}{%
    \IfFileExists{by-nc.png}{\includegraphics[width=40px]{by-nc.png}}{\cc\bync}}
  \end{flushright}
\end{contra}
```


Duple Minor Im.

Untitled Blues № 1

Seth Tepfer

A1: Neighbor gypsy; Ladies gypsy

B1: Partner balance and swing

C1: Ladies chain; Left hand star



Duple Minor Im.

Untitled Blues № 2

Seth Tepfer

A1. Neighbor gypsy; Gents allemande left $1\frac{1}{2}$

B1. Partner balance and swing

C1. $\frac{1}{2}$ promenade across set; Ladies chain



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