

The contracard class

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1 Introduction

The `contracard` class is designed to aid in the formatting and typesetting of caller cards for traditional square and line dances.

1.1 Rationale

There is little to no purpose for this class. I was tired of seeing caller cards that were written in difficult to read shorthand, or, when they were presented in a digital format, using some ugly 90s-looking HTML or MS Word template. This is my attempt to make calling cards more beautiful.

1.2 License / about the source

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.

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

2 Package building and loading

```
1 <*contracard>
```

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

```
2 \AtEndOfClass{\RequirePackage{intcalc}}
3 \AtEndOfClass{\RequirePackage{hyperref}}
4 \AtEndOfClass{\RequirePackage{ifthen}}
5 \AtEndOfClass{\RequirePackage{geometry}}
6 \AtEndOfClass{\RequirePackage{fancyhdr}}
7 \AtEndOfClass{\RequirePackage[compact]{titlesec}}
```

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` with the `--shell-escape` option:

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

Options

```
small The class can also be loaded with any of the following options:
medium
large
a7paper
8 \DeclareOption{small}{%
9   \AtBeginDocument{%
10     \titleformat{\section}{\normalsize\bfseries}{\thesection}{1em}{}%
11   }
12   \PassOptionsToPackage{%
13     margin=0.25in,top=0.75in,paperwidth=5in,paperheight=3in%
14   }{geometry}%
15 }
16 \DeclareOption{medium}{%
17   \AtBeginDocument{\large}
18   \PassOptionsToPackage{%
19     margin=0.5in,top=0.75in,paperwidth=6in,paperheight=4in%
```

```

20 }{geometry}%
21 }
22 \DeclareOption{large}{%
23   \AtBeginDocument{\Large}
24   \PassOptionsToPackage{%
25     margin=0.75in,top=1in,paperwidth=8in,paperheight=5in%
26   }{geometry}%
27 }
28 \DeclareOption{a7paper}{%
29   \AtBeginDocument{%
30     \titleformat{\section}{\normalsize\bfseries}{\thesection}{1em}{}%
31   }
32   \PassOptionsToPackage{%
33     margin=5mm,top=15mm,paperwidth=105mm,paperheight=74mm%
34   }{geometry}%
35 }
36 \DeclareOption*{%
37   \PassOptionsToClass{\CurrentOption}{article}%
38 }

```

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.

3 Environment setup

First let's set up the basic environment. We'll start by turning off headers, and removing the header rule inserted by `fancyhdr` on pages that will have headers later:

```

39 \AtBeginDocument{\renewcommand{\headrulewidth}{0pt}}
40 \AtBeginDocument{\pagestyle{empty}}

```

`dancecount` Next, we'll create some counters that will help us keep track the counts (or 'steps') in the dance. The `dancecount` is reset at the start of each new dance, `partcount` the `partcount` is reset at the beginning of each part (eg. A1 or B1), and the `phrasecount` the `phrasecount` is reset every time the part changes (eg. from A to B).

```

41 \newcounter{dancecount}
42 \newcounter{partcount}
43 \newcounter{phrasecount}

```

`\progressed` The phrase will continue to increment (A, B, C) unless the user resets it by calling `\progressed`. This does not strictly indicate progression, but it will be intuitive for most callers.

```

44 \newcommand*{\progressed}{\setcounter{phrasecount}{1}}

```

3.1 Formatting

There are also some options to determine how the environment will be formatted.

`\defaultcontraenv` By default, all contra moves are wrapped in the `flushleft` environment. To change this you can renew `\defaultcontraenv`.

```
45 \newcommand*{\defaultcontraenv}{flushleft}
```

4 The Meat

Next we'll define the meat of the `contracard` package: The `contra` environment and the `\move` command.

4.1 The contra environment

`contra` The `contra` environment is pretty simple. It clears the page, resets the various counters, and displays some information about the dance.

```
46 \newenvironment{contra}[4][\defaultcontraenv]{%
47   \clearpage
48   \setcounter{dancecount}{0}
49   \setcounter{partcount}{1}
50   \setcounter{phrasecount}{1}
51   \thispagestyle{fancy}
52   \rhead{#4}
53   \section*{#2}
54   {#3}
55   \newcommand*{\@contraenv}{#1}
56   \begin{\@contraenv}
57 }{%
58   \end{\@contraenv}
59 }
```

4.2 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.

```
60 \newcommand*{\move}[2][16]{%
61   \ifthenelse{\intcalcMod{\value{dancecount}}{16}=0}{%
62     \Alph{phrasecount}\arabic{partcount}.\ %
63   }{}%
64   \addtocounter{dancecount}{#1}%
65   #2%
66   \ifthenelse{\intcalcMod{\value{dancecount}}{8}=0
67     \and\not\intcalcMod{\value{dancecount}}{16}=0}{;}{\nopagebreak}%

```

```

68 \ifthenelse{\not\intcalcMod{\value{dancecount}}{8}=0}{,}{\nopagebreak}%
69 \ifthenelse{\intcalcMod{\value{dancecount}}{32}=0}{%
70 \addtocounter{phrasecount}{1}\setcounter{partcount}{0}\pagebreak[1]%
71 \vspace{1em}}{}}%
72 \ifthenelse{\intcalcMod{\value{dancecount}}{16}=0}{%
73 \addtocounter{partcount}{1}\newline}{}}%
74 }

```

5 Examples

A few examples are contained below:

5.1 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}
\end{contra}

```

5.2 Cherokee Shuffle by David Kaynor

```

\begin{contra}{Cherokee Shuffle}{David Kaynor}{Duple improper}
\move[8]{Circle left}
\move[8]{Neighbor dosido}
\move{Neighbor balance and swing}
\move[4]{Men allemande left \texttonehalf}
\move[4]{Balance in a wave}
\move[8]{Partner swing}
\move[8]{Circle left \textthreequarters}
\move[4]{Balance the ring}
\move[4]{Partner california twirl}
\end{contra}

```

Now that everything is defined we can process any options that were passed in by the user:

```

75 \ProcessOptions\relax
76 </contracard>

```

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols		M	
<code>\@contraenv</code>	55, 56, 58	<code>\medium</code>	<u>8</u>
		<code>\move</code>	<u>60</u>
<code>_</code>	62	N	
A		<code>\newcommand</code>	44, 45, 55, 60
<code>\a7paper</code>	<u>8</u>	<code>\newcounter</code>	41–43
<code>\addtocounter</code>	64, 70, 73	<code>\newenvironment</code>	46
<code>\Alph</code>	62	<code>\newline</code>	73
<code>\and</code>	67	<code>\nopagebreak</code>	67, 68
<code>\arabic</code>	62	<code>\normalsize</code>	10, 30
<code>\AtBeginDocument</code> .	9, 17, 23, 29, 39, 40	<code>\not</code>	67, 68
<code>\AtEndOfClass</code>	2–7	P	
B		<code>\pagebreak</code>	70
<code>\begin</code>	56	<code>\pagestyle</code>	40
<code>\bfseries</code>	10, 30	<code>\partcount</code>	<u>41</u>
C		<code>\PassOptionsToClass</code>	37
<code>\clearpage</code>	47	<code>\PassOptionsToPackage</code> .	12, 18, 24, 32
<code>\contra</code>	<u>46</u>	<code>\phrasecount</code>	<u>41</u>
<code>\CurrentOption</code>	37	<code>\ProcessOptions</code>	75
D		<code>\progressed</code>	<u>44</u>
<code>\dancecount</code>	<u>41</u>	R	
<code>\DeclareOption</code>	8, 16, 22, 28, 36	<code>\relax</code>	75
<code>\defaultcontraenv</code>	<u>45</u> , 46	<code>\renewcommand</code>	39
E		<code>\RequirePackage</code>	2–7
<code>\end</code>	58	<code>\rhead</code>	52
H		S	
<code>\headrulewidth</code>	39	<code>\section</code>	10, 30, 53
I		<code>\setcounter</code>	44, 48–50, 70
<code>\ifthenelse</code>	61, 66, 68, 69, 72	<code>\small</code>	<u>8</u>
<code>\intcalcMod</code>	61, 66–69, 72	T	
L		<code>\thesection</code>	10, 30
<code>\Large</code>	23	<code>\thispagestyle</code>	51
<code>\large</code>	<u>8</u> , 17	<code>\titleformat</code>	10, 30
		V	
		<code>\value</code>	61, 66–69, 72
		<code>\vspace</code>	71

Change History

0.1	
	General: Created boilerplate for class 1
	<code>\defaultcontraenv</code> : Allow user to format moves 3
	<code>\move</code> : Add move command 4
	<code>contra</code> : Create contra environment 4
0.2	
	<code>partcount</code> : Create a counter for the current musical part 3
	<code>phrasecount</code> : Create a counter for the current musical phrase 3
	<code>\progressed</code> : Allow the user to reset the phrase 3