

The `contracard` class

SAM WHITED
`sam@samwhited.com`

February 15, 2013
v0.1

Contents

1	Introduction	1
1.1	Rationale	1
1.2	License / about the source	2
2	Package building and loading	2
3	Environment setup	3
3.1	Formatting	3
4	The Meat	4
4.1	The <code>contra</code> environment	4
4.2	The <code>\move</code> command	4
5	Examples	5
5.1	Code's Compiling by Sam Whited	5
5.2	Cherokee Shuffle by David Kaynor	5
	Index	6
	Change History	7

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{\usepackage{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 the `dancecount` counter that will help us keep track of timing in the dance:

```

41 \newcounter{dancecount}

```

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`.

```

42 \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 `dancecount` and displays some information about the dance.

```
43 \newenvironment{contra}[4][\defaultcontraenv]{%
44   \clearpage
45   \setcounter{dancecount}{0}
46   \thispagestyle{fancy}
47   \rhead{#4}
48   \section*{#2}
49   {#3}
50   \newcommand*{\@contraenv}{#1}
51   \begin{\@contraenv}
52 }{%
53   \end{\@contraenv}
54 }
```

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 beats the move takes. If no beats are specified, it is assumed it takes up a full 16.

```
55 \newcommand*{\move}[2][16]{%
56   \ifthenelse{\intcalcmMod{\value{dancecount}}{64}=0}{A1.\ }{%
57     \ifthenelse{\intcalcmMod{\value{dancecount}-16}{64}=0}{A2.\ }{%
58       \ifthenelse{\intcalcmMod{\value{dancecount}-32}{64}=0}{B1.\ }{%
59         \ifthenelse{\intcalcmMod{\value{dancecount}-48}{64}=0}{B2.\ }{%
60           }%
61         }%
62       }%
63     \addtocounter{dancecount}{#1}%
64     #2%
65     \ifthenelse{\intcalcmMod{\value{dancecount}}{8}=0
66       \and\not\intcalcmMod{\value{dancecount}}{16}=0}{;}{\nopagebreak}%
67     \ifthenelse{\not\intcalcmMod{\value{dancecount}}{8}=0}{,}{\nopagebreak}%
68     \ifthenelse{\intcalcmMod{\value{dancecount}}{32}=0}{%
69       \pagebreak[1]\vspace{1em}}{%
70     \ifthenelse{\intcalcmMod{\value{dancecount}}{16}=0}{\newline}{}%
71   }
```

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 \textonehalf}
  \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:

```
72 \ProcessOptions\relax
73 \</contracard>
```

Index

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	
<code>\@contraenv</code>	50, 51, 53
<code>_</code>	56–59
A	
<code>\a7paper</code>	<u>8</u>
<code>\addtocounter</code>	63
<code>\and</code>	66
<code>\AtBeginDocument</code>	9, 17, 23, 29, 39, 40
<code>\AtEndOfClass</code>	2–7
B	
<code>\begin</code>	51
<code>\bfseries</code>	10, 30
C	
<code>\clearpage</code>	44
<code>\contra</code>	<u>43</u>
<code>\CurrentOption</code>	37
D	
<code>\dancecount</code>	<u>41</u>
<code>\DeclareOption</code>	8, 16, 22, 28, 36
<code>\defaultcontraenv</code>	<u>42</u> , 43
E	
<code>\end</code>	53
H	
<code>\headrulewidth</code>	39
I	
<code>\ifthenelse</code>	56–59, 65, 67, 68, 70
<code>\intcalcMod</code>	56–59, 65–68, 70
L	
<code>\Large</code>	23
<code>\large</code>	<u>8</u> , 17
M	
<code>\medium</code>	<u>8</u>
<code>\move</code>	<u>55</u>
N	
<code>\newcommand</code>	42, 50, 55
<code>\newcounter</code>	41
<code>\newenvironment</code>	43
<code>\newline</code>	70
<code>\nopagebreak</code>	66, 67
<code>\normalsize</code>	10, 30
<code>\not</code>	66, 67
P	
<code>\pagebreak</code>	69
<code>\pagestyle</code>	40
<code>\PassOptionsToClass</code>	37
<code>\PassOptionsToPackage</code>	12, 18, 24, 32
<code>\ProcessOptions</code>	72
R	
<code>\relax</code>	72
<code>\renewcommand</code>	39
<code>\RequirePackage</code>	2–5, 7
<code>\rhead</code>	47
S	
<code>\section</code>	10, 30, 48
<code>\setcounter</code>	45
<code>\small</code>	<u>8</u>
T	
<code>\thesection</code>	10, 30
<code>\thispagestyle</code>	46
<code>\titleformat</code>	10, 30
U	
<code>\usepackage</code>	6
V	
<code>\value</code>	56–59, 65–68, 70
<code>\vspace</code>	69

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	3