The **OneDown** package

www.ctan.org/pkg/onedown

Jacob Wiersma

jack46@online.de

v1.3 from 2019/02/21

Dealer: S ♠ A 3 2
Vul: N–S ♥ Q J 10
      ♦ K Q J 10 9
      ♣ Q J
♠ 8 7 6 5        ♠ 9 4
♥ A K
♦ 7 3 2
♠ 1 0 9 8 7
♦ K Q J 10
♥ 9 8 7 6
♦ A 8
♣ A K 2

South West North East  
1NT\(^a\) p 4NT\(^b\) p  
6NT X All pass

\(^a\) 15–17  
\(^b\) quantitative

<table>
<thead>
<tr>
<th>No</th>
<th>Lead</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>N</th>
<th>S</th>
<th>E</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W: ♥ K</td>
<td>10</td>
<td>2</td>
<td>6</td>
<td>0</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td>W: ♥ A</td>
<td>J</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>2</td>
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<td></td>
</tr>
</tbody>
</table>
Abstract

This package implements commands and environments to typeset various bridge diagrams, with or without a bidding sequence. It offers following features:

- It is possible to use an own font and/or a font-size with which the diagrams will be typeset independently from the main font used in the document. This also allows an easy production of overhead slides and for digital projection. Different fonts can be used for e.g. the bidding diagram, its header, the compass, the hands etc. Most diagrams can be centered both horizontally and vertically.

- A special feature is the automated check on consistency of suits and hands. If a hand holds more than 13 cards an error is printed, if there are less then 13 cards a warning. If a suit over the 4 hands has more than 13 cards or if a card appears more than once an error like \texttt{Error: Card \textdialed{8} occurs 2 times} is printed. These warnings and error messages are controlled by the \texttt{err} and \texttt{warn} options, e.g. when loading the package.

- The output of the implemented bridge terms like \texttt{Double} (which you get by calling the command \texttt{\textbackslash double}) are multilingual and get translated automatically. When the language \texttt{german} is active the command \texttt{\textbackslash double} would produce \texttt{Kontra}. Also the basic symbols like A(ce), K(ing), Q ueen) and J(ack) are multilingual. So \texttt{AKQJ} would automatically become \texttt{AKDB} in a German text.

- It is possible to add annotations to a card diagram, like the board number, the dealer or the vulnerability etc. on several positions in the diagram (if a board number is given, the dealer and vulnerability are computed automatically). One can also add explanations to the bidding diagram, as well as the real world names of the bidders.

- There are two specials: a command to typeset a quiz with answers, and an environment to typeset the sequence of playing tricks, where also the total number of tricks won by each side is calculated and displayed.
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I am neither a good bridge player nor a good package writer. But I like to read about bridge and when I write about bridge (sometimes a funny short story, sometimes some training exercises for beginners) I do feel the need for an appropriate tool to support that. Surprisingly enough, there exists no comprehensive package on CTAN for typesetting bridge diagrams. For all those people who feel more or less the same as I do, there is this package called OneDown. As some say: one down is good bridge\footnote{please, don’t discuss the truth-value of this statement with me}, I hope that OneDown is a good bridge package.

You can generate this documentation by running

\begin{verbatim}
\texttt{pdflatex --shell-escape onedown.dtx}
\texttt{makeindex \ -s gind.ist onedown.idx}
\texttt{makeindex \ -s gglo.ist \ -o onedown.gls onedown.glo}
\texttt{pdflatex --shell-escape onedown.dtx}
\texttt{pdflatex --shell-escape onedown.dtx}
\end{verbatim}

Use:

\begin{verbatim}
\texttt{pdflatex --shell-escape '\AtBeginDocument\{\NoColortrue\}\input{onedown.dtx}'}
\end{verbatim}

as last run to get a pdf for printing on a monochrome printer. The --shell-escape flag is necessary to generate the list of user commands. If you think this is too dangerous, then run pdflatex without this flag and you will get the documentation without the list of user command (of about 1 page). In any case you’ll find a multi-page reference overview of all commands in onedown-ref.pdf.

\section{Introduction}

There must be a lot of bridge players who also use \LaTeX to typeset their documents. And it is almost incredible that on CTAN there exist no modern package with a decent documentation that supports this.
In 1990 Kees van der Laan [1] published an article in TUGBoat\(^2\) in which he describes how well the \TeX{}-machinery is able to produce beautiful bridge diagrams. Based on this article and examples, Johannes Braams put these commands together in a style file\(^3\) and added more. Some time later René Steiner and Thomas Hof produced the `bridge-i` and the `kibitzer`\(^4\) style files, in which they made a lot of enhancements. Also others made some efforts in this direction.\(^5\)

Around 2005 I used these style files for some tiny projects. The quality of the output was splendid. Putting the text and diagrams together was not always easy and the documentation was poor. In 2015, after a long pause, I had to produce bridge texts again. I enhanced some of the existing stuff and made ad hoc changes in the code, which led to smaller and greater catastrophes. Summer 2016 I decided to write a new package, based on the work of the previously mentioned persons. I called it \texttt{OneDown}. The central goal was to offer a user friendly package with detailed documentation. For example you don’t need to say \texttt{\setlength{\handskip}{5mm}} or \texttt{\def\handskip{5mm}} but rather call the command \texttt{\handskip{1em}}. Not only the call is somewhat friendlier, more important, setting the width in terms of the font used, it will automatically adapt its size accordingly to font and font-size changes. \texttt{OneDown} features:

- Sizing of diagrams relative to font and font-size.
- The font-sizes of the diagrams and text are independent.
- Automated translation of all important bridge terms.
- Diagrams can optionally contain information about the dealer, who is vulnerable etc.

The \texttt{OneDown} package is designed to be used for typesetting texts that have to do with the game of bridge. It provides not only simple commands like \texttt{\Sp} which produces the spade symbol \(♠\). Also complete card diagrams with the hands of the \texttt{North}, \texttt{East}, etc. players.

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\(^3\)bridge.sty, last version v1.7c, 1994/12/20

\(^4\)both v1.0, 1995/04/06

\(^5\)Antony Lee released his package \texttt{bridge} in 2012 and Gordon Bower his package \texttt{grbridge} in 2013. Both are very interesting but offer only limited features and are not on CTAN at the time of writing. See http://www.bridgebase.com/forums/topic/51967-latex-package-for-typesetting-bridge-related-stuff/
can be defined in several ways. One can select which hands are to be shown. Bidding diagrams can be shown stand-alone or in connection with one or more hands. In bidding diagrams annotations are possible.

3 Usage

3.1 Initialization

3.1.1 Requirements

The package OneDown depends on several other packages, such as ifthen, translations or xspace. All these packages get loaded automatically if not already used in your document. For a complete overview of all required packages, refer to page 31. All the packages are loaded without any option, so the risk of an option clash should be low: Just load your package with options before OneDown.

Furthermore, for the several languages that OneDown supports, there are the dictionary files with translations of the specific bridge terms. These dictionaries follow the naming convention: ODw-(language).trsl and are included in the bundle. The name of the (language) is generally the same as the name that you use as option for babel. There is one exception: the Norwegian language uses norsk for babel and norwegian for translations. But all the same, the norwegian dictionary is automatically loaded when norsk is used.

Should you make a dictionary for a language that is not provided yet, or have corrections for an existing one, please send it to the maintainer, so it can be added to the bundle.

3.1.2 Loading the package

Simply say \usepackage{onedown} in the preamble of your document if you want to load OneDown with its default settings.

Warning: OneDown loads all necessary ODw-dictionaries automatically at the begin of the document. In order to know which languages must be loaded, these must be specified before package onedown is loaded. In general this means that if you use babel (or polyglossia) you must load it before package OneDown. If for some reason you cannot or do not want to do that, you can load any ODw-dictionary if you put the command: \LoadDictionaryFor{{(language)}}{ODw} in your preamble, provided
that the dictionary is in the \TeX-path. For a discussion about the caveats of using e.g. babel, refer to section 3.1.4.

3.1.3 Options

To change the behaviour of \texttt{OneDown} one can load the package with certain options: \texttt{\usepackage[⟨options⟩]{onedown}}. Of course this 'option loading' takes place in the preamble. But it is also possible to set (or change) options within the document by calling the macro \texttt{\setdefaults}. This macro uses the same \texttt{⟨key⟩=⟨val⟩} syntax as is used for the options and offers some more keys that cannot be used when loading the package. Refer to page 26 for details.

As said before, the package loads its options using the \texttt{⟨key⟩=⟨val⟩} syntax. These options deal with:

\texttt{colors} \texttt{colors=0|1|2|4A|4B}

The color in which the card symbols will be printed. The color options are \texttt{0} (black only), \texttt{1} (black and white) \texttt{2} (black and red), \texttt{4A} (green, orange, red and blue), \texttt{4B} (black, orange, red and green). We also defined some synonyms, as shown in the table below.

Thus loading the package with \texttt{\usepackage[colors=X]{onedown}} will print

\begin{itemize}
  \item \texttt{x=0: ♠, ♦, ♥ and ♦} (synonyms: \texttt{mono}, \texttt{black})
  \item \texttt{x=1: ♠, □, ♥ and ♦} (synonyms: \texttt{b+w})
  \item \texttt{x=2: ♠, ♦, ♥ and ♦} (synonyms: \texttt{b+r})
  \item \texttt{x=4A: ♠, ♦, ♥ and ♦} (synonyms: \texttt{4a}, \texttt{fourA})
  \item \texttt{x=4B: ♠, ♦, ♥ and ♦} (synonyms: \texttt{4b}, \texttt{fourB})
\end{itemize}

The default is \texttt{colors=2} for printing in black and red.

\texttt{err, warn} \texttt{err=on|off} \texttt{warn=|on|off}

These options regulate which messages are to be output. These messages have to do with the consistency of cards in a suit, in a hand or combined hands. It is an error when a hand has more than 13 cards, or when the same card occurs twice or more in a hand or a deal. With the option \texttt{err=on} (which is the default) these error messages appear as output. With \texttt{err=off} you can suppress that. On the other hand when a suit has less than 13 cards, this must not necessarily be wrong. Maybe only some
cards are to be shown, e.g. in an example concerning a finesse. Or when only e.g. E-W hands are concerned, not all cards of the deck will be specified. These situations will be caught by setting \texttt{warn=on}. To suppress these spurious warnings use \texttt{warn=off}, which is the default. Synonyms for \texttt{on} are 1 and \texttt{true}. Synonyms for \texttt{off} are 0 and \texttt{false}. This also applies for other keys that do not control a package option.

3.1.4 Active Characters: a Warning

\texttt{OneDown} uses the \texttt{ tranlation} package to automatically translate oft appearing bridge terms like e.g. \texttt{declarer}. It does so by looking up these terms in the special \texttt{ODw}-dictionary for the active language. The current \texttt{OneDown} version supports English, German, Dutch, French, most Scadinavian languages and Turkish. Some dictionaries may not be complete or may contain errors, please send corrections/additions to the maintainer.

Warning for people using active characters.

Some language packages fiddle around making characters active. This can have unexpected influence on \texttt{OneDown}. The \texttt{=} sign is used when loading the package \texttt{onedown} to specify options. It appears also in calls like \texttt{\setdefaults{warn=on}}. We also use the following characters as tokens for optional arguments with the meaning as shown in this list:

- \texttt{*} to center diagrams or print a long or capitalized text
- \texttt{!} special action like short names of vertical layout
- \texttt{-} to hide what would normally been shown
- \texttt{+} to show what would normally be hidden

To give you an idea what e.g. babel can cause we cite from \textit{The Turkish style for babel}:

Turkish typographic rules specify that a little ‘white space’ should be added before the characters ‘:’, ‘!’ and ‘=’. In order to insert this white space automatically these characters are made \texttt{\active}, so they have to be treated in a special way.

So babel-Turkish makes the equal sign and exlamation mark active. This leads to errors when you call e.g. \texttt{\setdefaults{warn=on}} or \texttt{\hand!}. 

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If you do not need any character to be active, then load this language with `\usepackage[ turkish,shorthands=]{babel}`. If you do need the shorthand then you must disable it every time you have to use e.g. the `=` character as a normal character by:

```
\shorthandoff{=}% Make '=' not active any more
\setdefaults{warn=on}
\shorthandon{=}% Restore '=' to active again
```

4 User Commands

4.1 Overview

In the next sections we give a short description of all the user commands and environments that are defined in `OneDown`. The commands marked with `ML` are multilingual. I.e. the text they typeset gets translated automatically into the active language.

In order to make sure that the example diagrams do not disturb the page layout of this document too much, we scaled them down to `footnotesize`. Sometimes the output of a command is shown as an example. This output is framed in this document like this, just to recognize it easily as an output example. In an accompanying file with examples one can find in more detail how these commands are used and what they produce.

We have loaded the package `OneDown` with the default option for colors, giving us black and red. Furthermore, when we describe macros, we use a colored frame that also shows the output of the commend. Some commands have optional tokens that produce an output that differs from the naked version. These optional tokens appear in a different background color like `*!`. If an output of a macro is shown, then the output of tokenized calls is shown in parenthesis to demonstrate the difference.

4.1.1 The Compass

The compass `\begin{compass}{N \ W \ E \ S}` is not available as a user command itself, but it is used in all user commands that draw a card diagram. It has some special features.

\textsuperscript{6}onedown-examples.pdf
• It can mark the dealer (North)\[\begin{array}{c}
N \\
W \\
E \\
S 
\end{array}\]

• It can write the vulnerable side (North–South) in red \[\begin{array}{c}
N \\
W \\
E \\
S 
\end{array}\]

• it can put something (a board number) in the middle \[\begin{array}{c}
N \\
W \ 3 \\
E \\
S 
\end{array}\]

The machinery is intelligent enough to calculate the dealer and vulnerability from the board number. When only black or b+w is selected as option for colors, then the vulnerable side is written in italics rather colorized. Because underlining the South-hand would interfere with the compass frame, we overline it. With the command \texttt{\setdefaults} one can customize the look of the compass. In particular, if you want to print the actual board number, specified by calling \texttt{\boardnr{Nr}}, you can achieve that by calling \texttt{\setdefaults{compmid=\boardtext}}. In the accompanying file with examples you’ll find more examples about \texttt{\setdefaults}.

4.1.2 Hooks

We use kind of hooks to

1. change the font or the font-size. These are discussed in chapter \textit{Sizing and Fonts} on page 19.

2. add commentary information to card diagrams. These are discussed in chapter \textit{Conditions in Diagrams} on page 23.

3. There is one other hook to enable the user to add something to the compass. This is done by calling \texttt{\setdefaults{compmid=\textit{<Text>}}}.

4.2 Basic Symbols

In this section we show the predefined commands that produce terms that occur often in bridge text. On page 21 an easy way is shown to redefine them as to use a different variant of the term in question.

The next 5 macros are shorthands for the suit symbols and \textbf{NT}: 

\[\begin{array}{c}
N \\
W \\
E \\
S 
\end{array}\]
The next 4 macros typeset the non-bid calls

| \pass | ML \pass | Pass |
| \allpass | ML \allpass | All pass |
| \double | ML \double | Double |
| \redouble | ML \redouble | ReDouble |

The next 6 macros typeset the directions that identify dealer (or player) and the axis that is vulnerable.

| \north | ML \north | North |
| \east | ML \east | East |
| \south | ML \south | South |
| \west | ML \west | West |
| \northsouth | ML \northsouth | North–South |
| \eastwest | ML \eastwest | East–West |
The next 4 macros typeset the unit of the points when valuing a bridge hand. If one or more of these items do not appear in your bridge world, don’t argue them, Just don’t use them!

\HCP ML \HCP HCP
\HLP ML \HLP HLP
\LP ML \LP LP
\DP ML \DP DP
\TP ML \TP TP

The next 5 commands produce the abbreviations for several forcing expressions.

\GF ML \GF GF
\SF ML \SF SF
\NMF ML \NMF NMF
\TSF ML \TSF 3rd SF
\FSF ML \FSF 4th SF

4.2.1 Header of the Bidding Table
\namesNS \namesNS{(N-name)\{S-name\}}

Defines the real world names for the North and the South player. If they are defined, they appear in the N- and the S-column of the bidding diagram.

\namesEW \namesEW{(E-name)\{W-name\}}
Same as \texttt{namesNS} but now for the \textbf{East} and the \textbf{West} player.

4.3 The Card Diagrams

4.3.1 The hands of the players

Before a card diagram can be shown, one must specify the cards that each player holds. With the various \texttt{⟨player⟩hand}-commands one can do this. The suits they define are only shown when a \texttt{show}-command is issued after they have been defined. The \texttt{show}-commands are discussed on page 16.

\begin{verbatim}
\northhand \easthand \southhand \westhand
\end{verbatim}

The command \texttt{\northhand} defines the cards (all 4 suits) for the N-player. \texttt{\easthand}, \texttt{\southhand} and \texttt{\westhand} do that for the E-, S- or W-player. These commands have 4 mandatory arguments in which the cards of the 4 suits are specified. In all suit commands where card ranks are issued, one must use \texttt{T} to denote the value 10. On output, some kerning takes care that the output looks like 10 and not like a 1 followed by a 0. So \texttt{\suit{AKJ8}} produces \texttt{AKJ10}. It is also possible to use a small 'x' as symbol for a spot card: \texttt{\suit{AKxxx}} produces \texttt{AKxxx}.

These commands also have an optional argument, an offset which by default is 0pt. This offset is meant to finetune the layout of the hands in the card diagrams. They change the distance between a hand and the compass. \texttt{\northhand} and \texttt{\southhand} have a \textit{vertical} offset, whereas \texttt{\easthand} and \texttt{\westhand} have a \textit{horizontal} one. A positive value moves away from the compass.

4.3.2 The single hand

\begin{verbatim}
\hand
\end{verbatim}
This macro typesets the cards of one single hand, either vertically or horizontally. There are 4 mandatory arguments defining the 4 suits. With 2 optional tokens ‘*’ resp. ‘!’ one can typeset the hand with some special features:

- \texttt{\hand*} typesets a hand horizontally, centered
- \texttt{\hand!} typesets a hand vertically, left aligned
- \texttt{\hand*!} typesets a hand vertically, centered

For vertical hands the optional argument \texttt{pos} (default= \texttt{c}) controls the horizontal alignment. Without a token, the hand is typeset horizontally, left aligned: The call \texttt{\hand\{AK2\}\{T85\}\{AQ76\}\{A42\}} typesets the hand horizontally like:

\[ \begin{array}{c}
\blackspadesuit\ AK2 ~ 10\ 8\ 5 ~ \blackdiamondsuit\ AQ10\ 6 ~ \heartsuit\ A42
\end{array} \]

whereas the \texttt{\hand!} version produces:

\[ \begin{array}{c}
\blackspadesuit\ AK2 ~ 10\ 8\ 5 ~ \blackdiamondsuit\ AQ10\ 6 ~ \heartsuit\ A42
\end{array} \]

The third optional token, a ‘-’ suppresses all output and saves the stuff for later use. This is used e.g. in \texttt{\expertquiz}.

### 4.3.3 Only one suit

\[ \texttt{\onesuitAll*!} \{\langle N \rangle}\{\langle S \rangle}\{\langle E \rangle}\{\langle W \rangle}\} \]

Typesets the cards of 1 suit for all players. This command has 4 mandatory arguments defining the cards of the 4 players. There are 2 optional tokens. With \texttt{\onesuitAll*} the output is centered, with \texttt{\onesuitAll!} the cards are placed around a \texttt{NESW} compass. Without the ‘!’-token a small box (□) is used instead. Thus the macro call

\[ \texttt{\onesuitAll\{AQ6\}\{J3\}\{T54\}\{K2\}} \]

produces

\[ \begin{array}{c}
\texttt{AQ6} ~ \texttt{K2} ~ \texttt{□} ~ \texttt{T54} ~ \texttt{J3}
\end{array} \]

Please note the order of the players in the arguments: the first 2 denote the \texttt{North} and \texttt{South} hand. The last 2 denote the \texttt{East} and \texttt{West} hand. We choose it this way so you can easily cut and paste one pair from the \texttt{\onesuitAll}, or extend \texttt{\onesuitNS} to showing all hands.

\[ \texttt{\onesuitNS*!} \{\langle N \rangle}\{\langle S \rangle}\} \]
These commands are similar to \suitAll but have only 2 mandatory arguments. The command \suitNS{AQ3}{JT9} typesets \begin{tabular}{c}
AQ3 \\
\hline \\
JT9
\end{tabular} and \suitEW{8764}{K2} will produce \begin{tabular}{c}
K2 8764
\end{tabular}. Please note that at the latter the cards for the \textbf{East} hand appear in the first argument. Finally \suitNE{AQ3}{8764} produces \begin{tabular}{c}
AQ3 8764
\end{tabular} and \suitNW{AQ3}{K2} produces \begin{tabular}{c}
AQ3 K2
\end{tabular}.

This command has 1 optional argument denoting a suit symbol and 1 mandatory argument, defining the cards of the suit. \suit{AQJ7} by default produces \begin{tabular}{c}
AQJ7
\end{tabular}. When the German language is active it would produce \begin{tabular}{c}
ADB7
\end{tabular}. Using the optional argument like in \suit[\texttt{\textbackslash Di}]{AQJ7} will produce: \begin{tabular}{c}
\textcolor{red}{\textasteriskcentered} AQJ7
\end{tabular}.

### 4.3.4 Showing Card Diagrams

\begin{itemize}
  \item \showAll \gg [\textit{pos}]
  \item \showNS \gg [\textit{pos}][\texttt{\textbackslash N}]{\texttt{\textbackslash S}}
  \item \showEW \gg [\textit{pos}][\texttt{\textbackslash E}]{\texttt{\textbackslash W}}
  \item \showNE \gg [\textit{pos}]
  \item \showNW \gg [\textit{pos}]
\end{itemize}
All show-commands have two optional tokens, a ‘*’ which centers the output and a ‘+’ which also displays a bidding diagram next to the card diagram. This bidding diagram must have been defined before, see page 28. They also have one optional argument that defines the aligning. Its default is c. \showAll typesets a card diagram with the \texttt{N\textsc{esw}} compass with N in top and the hands of the 4 players surrounding it. These hands must have been defined before by calling \texttt{northhand} etc. Hands that are not defined are left empty. Optionally some conditions (like the dealer or who is vulnerable etc.) can be added to the diagram by using the commands described in section Diagram Conditions. Please note that when the \texttt{North} or \texttt{South} hand contains a long suit that extends beyond the \texttt{N\textsc{esw}} compass, this might collide with these extra texts. You can correct that with the optional offset parameter of the condition commands (see page 17).

The other commands are similar to \showAll but typeset only the hands of the players that are represented in the name of the command: \texttt{N-S}, \texttt{E-W}, \texttt{N-E} and \texttt{N-W}.

The commands \texttt{\showNS} and \texttt{\showEW} have an extra optional argument with which selectively only one of the two hands can be displayed. E.g. \texttt{\showNS(S)} will display only the \texttt{South}-hand.

### 4.3.5 Showing Card Diagrams with Bidding

### 4.3.6 Diagram Conditions

<table>
<thead>
<tr>
<th>\headlinetext</th>
<th>\headlinetext{⟨text⟩}</th>
</tr>
</thead>
<tbody>
<tr>
<td>\footlinetext</td>
<td>\footlinetext{⟨text⟩}</td>
</tr>
<tr>
<td>\leftupper</td>
<td>\leftupper[⟨h-offset⟩]{⟨line1⟩}{⟨line2⟩}{⟨line3⟩}</td>
</tr>
<tr>
<td>\leftlower</td>
<td>\leftlower[⟨h-offset⟩]{⟨line1⟩}{⟨line2⟩}{⟨line3⟩}</td>
</tr>
</tbody>
</table>

These commands have 1 mandatory argument: the text that defines the annotation that is to be added to a card diagram. The text can be on more than one line, just separate them with a \texttt{\par} or \texttt{\newline}⁷. \headlinetext places the annotation above the diagram, \footlinetext below it.

¹Using ‘\\’ instead produces a misleading error: ! Missing } inserted…
These commands have 1 optional argument (default 0pt) with which you can add some extra horizontal space if hand and legend collide, and 3 mandatory arguments: the lines of text that are added as conditions to the card diagram. Both \leftupper \rightupper place their text in the left- (right-) upper corner of the diagram. The top line will be aligned with the (inner) top of the diagram. \leftlower \rightlower are similar, but place their text at the lower corner of the diagram. The last line is aligned with the (inner) bottom of the diagram. For an empty line you must issue an empty argument. With a positive offset, \leftupper and \leftlower shift to the left whereas \rightupper and \rightlower shift to the right. I.e. they shift away from their neighbouring hand.

Both commands have 1 optional argument. If present it sets (and prints) the internal corresponding variable to this value, otherwise it only outputs the value of this internal variable.

These commands have also 1 optional argument. If present e.g. \dealertext[\North\*] this text is output in the form \text{Dealer: North}. If the German language is active then the call \dealertext[\South\*] produces the text \text{Teiler: Süd}. Calling \dealertext without an argument outputs the predefined text, which can be set with \dealer.

Example: \dealer[\North\*]\dealertext produces \text{Dealer: North}. 

The macro \boardnr has 1 mandatory argument. If it is a number, it is considered to be the board number. The dealer and which side is vulnerable is then calculated from it and stored in the appropriate variables. If it is not a positive integer, it is considered user-defined
text and will be stored and used as is.

\texttt{\textbackslash boardtext \textbullet{ML. \textbackslash boardtext \textbullet{}}}

The macro \texttt{\textbackslash boardtext} has 1 token and no arguments. \texttt{\textbackslash boardtext} retrieves only the board number (stored by calling \texttt{\textbackslash boardnr}). \texttt{\textbackslash boardtext*} outputs the board number with some additional (multilingual) text. \texttt{\textbackslash boardnr\{23\}\textbackslash boardtext} produces \texttt{23} whereas \texttt{\textbackslash boardtext*} would produce \texttt{Board: 23}. Note that \texttt{\textbackslash boardnr} can have a non-integer argument. \texttt{\textbackslash boardnr\{Fun\}\textbackslash boardtext} produces \texttt{Fun} and with \texttt{\textbackslash boardtext*} it would produce \texttt{Board: Fun}.

4.3.7 Sizing and Fonts

\texttt{\textbackslash handskip \{\textbackslash handskip\{\langle\text{length description}\rangle\}\}}

This command has 1 mandatory argument: a \texttt{\textbackslash text} describing a length. \texttt{\textbackslash handskip} enlarges the distance (default \texttt{1em}) between the rightmost hand and the bidding diagram. A negative value diminishes the distance.

\texttt{\textbackslash bidderfont \{\textbackslash bidderfont\{\langle\text{font description}\rangle\}\}}

\texttt{\textbackslash compassfont \{\textbackslash compassfont\{\langle\text{font description}\rangle\}\}}

\texttt{\textbackslash gamefont \{\textbackslash gamefont\{\langle\text{font description}\rangle\}\}}

\texttt{\textbackslash legendfont \{\textbackslash legendfont\{\langle\text{font description}\rangle\}\}}

\texttt{\textbackslash namefont \{\textbackslash namefont\{\langle\text{font description}\rangle\}\}}

\texttt{\textbackslash otherfont \{\textbackslash otherfont\{\langle\text{font description}\rangle\}\}}

These commands all have 1 mandatory argument: a \texttt{\textbackslash description} of the font to be used. In the list below the command names are typeset in their default font.

- \texttt{\textbackslash bidderfont}: Used for the player-names in the bidding diagram. The default is \texttt{\mdseries\sffamily}. 

• **compassfont**: Used for the directions and the "midvalue" in the compass. The default is \mdseries\sffamily.

• **gamefont**: Used for card diagrams, hands and suits. The default is \bfseries\sffamily.

• **legendfont**: Used for the conditions in card diagrams. The default is \mdseries\rmfamily.

• **namefont**: Used for the real world names in bidding diagrams. The default is \mdseries\slshape.

• **otherfont**: Used for the other bridge expressions, also outside diagrams. The default is \bfseries\sffamily.

If a new font is defined, all relevant dimensions of the card diagrams (including the N E S W compass, the bidding diagram etc.) will be recalculated. Some examples for setting the gamefont to a new value are:

- \gamefont{\sffamily\bfseries\HUGE} to get HUGE diagrams. Refer to the documentation of package moresize for details.

- \legendfont{\smaller} to diminish the text in the card diagram conditions a little. Refer to the documentation of package relsize for details.

- \gamefont{\sffamily\scalefont{3}}\footnote{needs package scalefnt} to typeset real big diagrams for overhead sheets.

### 4.4 Misc

Many of the text producing macros have in common that they can produce 4 different versions of the text they represent. Normally, without any token, they produce the lowercase text. With the token \* they produce the capitalised text. With the token \! they produce some abbreviation of the text (if available). Finally with both tokens \*! the produce the capitalised abbreviation of the text. What exactly is produced, is shown in the macro descriptions. In some cases it seems rather strange to have the code for an abbreviated form, i.e. \Lead\[\!*\]!, because it produces only the variants lead and Lead. But remember that we also support automatic translations into other languages and that in another language an abbreviation might be feasible; With the german language active \Lead\* and \Lead\*! produce Ausspiel and Aussp. respectively.
At the other hand it seems peculiar to let \texttt{Ace!} produce $\texttt{A}$ for an Ace. But we do not foresee which modern novelist might want to produce this. That’s why they are defined, but ’normal’ writers probably will never used it.

The short versions are primarily meant to be used within diagrams, although it is possible to get the long forms there too. Refer to page 26 for details. We show the output of such a macro \texttt{Macro} (note the capital M!) in the form:

```
\Macro*! \Macro (\Macro*, \Macro!, \Macro*)
```

In addition to each macro \texttt{Macro} with its 4 variants, we also create a macro \texttt{macro} which is defined to output the most used variant of \texttt{Macro}:

```
\macro most used variant of \Macro
```

It is very easy to redefine \texttt{macro}. As an example we take the macro \texttt{ace}. Its definition is:

```
\def\ace{\texttt{Ace}!}
```

so calling \texttt{ace} will produce $\texttt{A}$. If somewhere in your document you redefine \texttt{ace} to be

```
\def\ace{\texttt{Ace}}
```

then \texttt{ace} will produce $\texttt{Ace}$ rather than $\texttt{A}$.

### 4.4.1 Honor Cards

```
\Ace \texttt{ML. Ace*!} ace (Ace, a, A)
\ace \texttt{ML. \texttt{ace} A}
\King \texttt{ML. King*!} king (King, k, K)
\king \texttt{ML. \texttt{king} K}
\Queen \texttt{ML. Queen*!} queen (Queen, q, Q)
\queen \texttt{ML. \texttt{queen} Q}
```
4.4.2 Variants of Basic Symbols

In section 4.2 we already described the macros for the main variant. Here we introduce the macros that handle 4 variants with a combination of the tokens * and !.

We start with the variants for \nt

Next we show the 4 macros for the non-bid calls:

Next come the 6 macros for the symbolic names of players and axes.

\Jack \jack J

These commands produce the language dependent names for the honor cards. To be used primarily when adding a lead to a card diagram.
The 4 commands that typeset the *point-unit*

\hpts \text{ high card points (High Card Points, hcp, HCP)}
\tpts \text{ total points (Total Points, tp, TP)}
\lpts \text{ length points (Length Points, lp, LP)}
\dpts \text{ distribution points (Distribution Points, dp, DP)}

The forcing terms

\gforce \text{ game forcing (Game Forcing, gf, GF)}
\sforce \text{ semi forcing (Semi Forcing, sf, SF)}
\nmforce \text{ new minor forcing (New Minor Forcing, nmf, NMF)}
\tsforce \text{ third suit forcing (Third Suit Forcing, 3rd sf, 3rd SF)}
\fsforce \text{ fourth suit forcing (Fourth Suit Forcing, 4th sf, 4th SF)}

4.4.3 Conditions in Diagrams

These commands produce the language dependent expressions for All, None, by, Board etc. To be used primarily in card diagrams.

\All \text{ all (All, all, All)}
4.4.4 Annotations in Bidding Diagrams
These macros have no argument. With \alert one can mark a call that must be alerted with an asterisk (*) e.g. a weak 2\NT opening with 2\NT\alert. It produces $2\NT^*$. With \announce one can mark a bid with an 'A' (A) where an announcement is obligatory, e.g 2\He\announce produces $2\He^A$.

These commands are to be used to mark a call in the bidding diagram and explain it with a kind of footnote-like mechanism, directly below the bidding diagram. Both \markit and \explainit step a counter for associating the explanation with the mark. \markit has no arguments; \explainit has one mandatory argument: the text to be displayed as explanation. \explainit should be called in the description part of bidding diagrams (or expertquiz). The text of the explanation is then typeset under the bidding diagram and has the same width. You can use newline (\, or \newline) in your text to force a new line in the explanation.$^9$

4.4.5 Specials

This command displays a hand, a bidding sequence and some additional stuff. It is designed after the Expert Quiz column in the Bridge Magazin of the DBV$^{10}$, the German Bridge Union. It has 2 optional tokens: a '•' for centering and a '!' which 1) forces the bidding diagram to appear on a new line, and 2) shifts the hand a bit to the right. Next there is one optional argument with wich some commentary information can be added. And finally there is 1 mandatory argument that describes the awards for certain solutions. Both the hand and the bidding must be defined before calling \expertquiz.

$^9$Using \par produces the error: Runaway argument?...
$^{10}$Deutsche Bridge Verband
One can do that by calling e.g. `\hand-` which suppresses the output of the hand.

### 4.4.6 Re-Initialization

This command resets most bridge diagram data and can be used to start a new series of bridge diagrams. It is however not necessary to use `\newgame` if one enters new cards for the North etc. hands. The list below shows which items are reset by calling `\newgame`:

- resets `\boardnr{0}`.
- resets `headlinetext` and `footlinetext`.
- resets `LeftUpperText`, `LeftLowerText`, `RightUpperText` and `RightLowerText`.
- resets `northhand`, `easthand`, `southhand` and `westhand`.
- resets `namesNS` and `namesEW`.
- resets the checks for Spades, Hearts, Diamonds and Clubs.

The macro `\setdefaults` uses a `<key>=<val>` mechanism. The tables above show which keys are available. The underlined key values are defaults. The available keys with respect to fonts are: `bidder`,

<table>
<thead>
<tr>
<th>key</th>
<th>font</th>
<th>key</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>bidder</td>
<td>bidderfont</td>
<td>compline</td>
<td>⟨factor⟩</td>
</tr>
<tr>
<td>compass</td>
<td>compassfont</td>
<td>compshow</td>
<td>off</td>
</tr>
<tr>
<td>game</td>
<td>gamefont</td>
<td>compsize</td>
<td>⟨factor⟩</td>
</tr>
<tr>
<td>legend</td>
<td>legendfont</td>
<td>compturn</td>
<td>off</td>
</tr>
<tr>
<td>name</td>
<td>namefont</td>
<td>key</td>
<td>value</td>
</tr>
<tr>
<td>other</td>
<td>otherfont</td>
<td>bidders</td>
<td>off</td>
</tr>
<tr>
<td>colors</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>warn</td>
<td>off</td>
<td>on</td>
<td>bidline</td>
</tr>
<tr>
<td>err</td>
<td>off</td>
<td>on</td>
<td>bidlong</td>
</tr>
</tbody>
</table>
compass, game, legend, name and other. In upper the table to the left the association between key and font is shown. A call e.g. \setdefaults{name=\bfseries\scriptsize} will set the default for the namefont to the value specified. The starred form \setdefaults* will also call \resetfonts, which effectuates any change in a new default font immediately.

In the lower table to the left you’ll find the three keys that are also possible as package options. They have been described already in section 3.1.3.

The keys with respect to the compass are: compline, compshow, compsize and compturn. They are shown in the upper table to the right. With the first key one can set the linethickness of the compass frame, the default is 0.1em. The second key controls whether the compass is shown or not. The third key controls the size of the compass, which per default is 2.5em. With the fourth key one can rotate the letters for the E-W direction over 90°. The multiplication-⟨factor⟩, which defaults to the value 1, can have any non-negative real value.

The keys with respect to the bidding diagram are: bidders, bidfirst, bidline and bidlong. They are shown in the lower table to the right. With the first key one can suppress the bidders in the bidding header. With the second key one can set which bidder appears in the first column of the diagram. The default is w. The third key controls whether an \hline is printed below the header. The fourth key switches between the long or short form of the non-bid calls, like Pass or p.

For the key-value on we have the synonyms true and 1, for the key-value off we have the synonyms false and 0.

\resetfonts

When calling this macro, all fonts are set back to their default value. This is the value that was explicitly set by a previous call of \setdefaults, or to the intrinsic default value if \setdefaults has not been called before.

4.5 Environments

In the first place we must warn the user for a peculiarity of the package collcell, which is used to do some special processing in these 3 environments: The last row must either end with a newline (\textbackslash\textbackslash) or with an empty cell.
The advantage of the collcell processing is that within the bidding and play diagrams we can use shorthands for the suit symbols: rather than writing \(3\heartsuit p\) in a bidding diagram we can also write \(3S\) to obtain \(3\heartsuit\). In the play diagram we could write \(HA\) instead of \(\text{\textbackslash He}, \text{\textbackslash ace}\) and get \(\heartsuit A\) as output. In bidding diagrams some non-bid calls may appear in short or in long form, controlled by calling \setdfaults{bidlong=on}, which switches to the lang form, or \setdfaults{bidlong=off} which switches to the short form. These non-bid calls are coded as follows: a small \(p\) yields short form \(\text{Pass}\) or long form \(\text{Pass}\). A capital \(P\) yields short form \(\text{AP}\) or long form \(\text{All pass}\). A capital \(X\) yields short form \(\text{Double}\) and long form \(\text{ReDouble}\). A capital \(R\) yields short form \(\text{XX}\) and long form \(\text{ReDouble}\).  

\[ \begin{bidding} \star!-[[\text{pos}]][(\text{description})]...\end{bidding} \]

This environment has 3 tokens. The \(\star\) centers the bidding diagram. The \(\!\) outputs the short form: e.g. \(N\) rather than the long form \(\text{North}\) in the table heading. The \(-\) completely suppresses the output. The data is stored in a savebox and can be used in other macros, e.g. in all \showXX macros. Next come 2 optional parameters. The first one controls the alignment (default \(c\)) and the second one adds the list of annotations below the bidding diagram. With \setdefaults one can fine tune the look of the bidding diagram. Refer to page 26 for details. For example

\begin{verbatim}
\begin{bidding}\explainit{WeakTwo}\explainit{preemptive}\end{bidding}
\begin{bidding}\quad\end{bidding}
\quad\setdfaults{bidlong=off}\begin{bidding}!2H & p & 3H & p\end{bidding}!\quad\end{bidding}
\end{verbatim}

produces

\[ \begin{array}{cccc}
\text{West} & \text{North} & \text{East} & \text{South} \\
2\heartsuit^a & \text{Pass} & 3\heartsuit^b & \text{Pass} \\
\end{array} \]

In addition to the shorthands we mentioned before, one can also use macros in the bidding and play diagrams. As long as these macros

---

\(\) due to the fact that \(x\) denotes a spotcard, we had to implement it this way
appear as 1 single token in the diagram, no special care has to be
taken. But if a macro appears as multiple tokens, e.g. like the call
\Pass*, which consists of the 3 tokens \Pass, * and !, then it must
be enclosed in braces {...} to make it act as 1 token. Without the
braces \Pass*! will produce \text{pass*!}, with them \{\Pass*!\} will produce
\text{P}. Note that although \text{\textbackslash pass} expands to \text{\textbackslash Pass*}, it will produce the
correct \text{Pass}.

\texttt{biddingpair}
\begin{biddingpair}
*!- \[
\langle pos \rangle (\langle descr \rangle) \ldots\end{biddingpair}

This environment is essentially the same as the \texttt{bidding}
environment, but here the \texttt{bidding} diagram has only two columns rather than four.

\texttt{play}
\begin{play}
* {\langle Lead \rangle} {\langle Trump \rangle} \ldots\end{play}

This environment has 1 token, a ‘*’, which controls the centering
of the table; 1 mandatory argument, denoting the opening lead and 1
optional argument which specifies the trump suit, with default: \texttt{NT}. It
typesets a diagram with the sequence of playing tricks, by producing
a table with 8 columns: the running number; the player who had had
the lead; the 4 cards played in this trick and finally the 2 columns that
show how many tricks \texttt{N–S} and \texttt{E–W} have won so far. The user has to
specify only the columns 3-6, i.e. the cards that were played. Columns
1-2 and 7-8 are constructed by \texttt{OneDown}. Just as in \texttt{bidding}
diagrams, also here one can denote the suit with \texttt{S}, \texttt{H}, \texttt{D}, or \texttt{C}. The winning
card is automatically detected, taking into account if a suit contract
or \texttt{NT} is played. The winning tricks counters are then updated automatica-
ly. Concerning consistency it is just as with hands and deals:
If a card occurs more than one time, an error is raised and for missing
cards a warning is issued.

\begin{play}{W}
\begin{array}{|c|c|c|c|c|}
\hline
\text{\#} & \text{Lead} & 2\text{nd} & 3\text{rd} & 4\text{th} \\
\hline
1 & W: \diamondsuit 3 & 2 & Q & K \\
2 & S: \heartsuit A & 5 & 4 & J \\
3 & S: \spadesuit 3 & 5 & K & A \\
\hline
\end{array}
\end{play}
\begin{play}\*{W} \\
D3 & 2 & Q & K \\
HA & 5 & 4 & J \\
C3 & 5 & K & A \\
\end{play}

produces the same diagram, but this time horizontally centered.

<table>
<thead>
<tr>
<th>№</th>
<th>Lead</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>N</th>
<th>S</th>
<th>E</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W: ♥3</td>
<td>2</td>
<td>Q</td>
<td>K</td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>S: ♦A</td>
<td>5</td>
<td>4</td>
<td>J</td>
<td>2</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>S: ♠3</td>
<td>5</td>
<td>K</td>
<td>A</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5 Final Remarks

5.1 Known Bugs

- Some dictionaries have questionable translations.

- The boxes in \texttt{northhand} and \texttt{southhand} lead to problems with shifting the \texttt{West} hand. See file Legends in the example bundle.
5.2 ToDo

- Check if \def\xspace{} is also needed in bidding...?
- Make a template for showing 16 hands on 1 DIN A4 (3x5+1 or 4x4 landscape) e.g as handout for the hands on slides.
- Read source files in PBN format. Example: http://new.bridgekosice.sk/bridzove-diagramy-vykrelene-pomocou-tex/

5.3 Acknowledgements

This package is based on (ideas from) the style files:

- bridge-i v1.0 (1995/04/16) by René Steiner and Thomas Hof.
- kibitzer v1.0 (1995/04/16) by René Steiner and Thomas Hof.
- bridge v0.1 (2012/03/18) by Antony Lee.
- grbbridge v2.2 (2013/12/24) by Gordon Bower.

The style file bridge-i is based on the style file bridge v1.7c (1994/12/20) by J.L. Braams, which on itself was based on an article by Kees van der Laan in TUGboat (Vol 11 (1990), No 2: p265ff.

Last but not least I want to thank all those wonderful people down there in the Internet who spent their time in answering silly questions and solving difficult problems. If I had imagined the difficulties I would encounter, then I would not have started this work. And without the help of all these, to me unknown, people, this package would not exist.

6 Implementation

6.1 Prelimaries

6.1.1 Packages we depend upon

1 \RequirePackage{%
2 xcolor,% colorizing symbols \Sp etc.
3 textcomp,% for the numbersign in environment play.
4 moresize,% add \HUGE and \small to font-sizes
5 relsize,% relative font-sizes. (e.g. \smaller)
6 makecmds,% needed for provideenvironment
7 expl3,% needed for LaTeX3 packages (xspace)
8 xparse,% optional params and starred commands
9 xspace,% handling of spacing behind a command
10 calc,% makes calculations and lengths easier
ifthen, % easy booleans, tests and loops
adjustbox, % stacked boxes in L-/R-Lower captions
translations, % auto-translate terms (e.g. East->Ost)
array, % actions for tabular column cells
collcell, % macro calls for tabular column cells
pgfopts, % for keyval opts, loads also pgfkeys
environ, % for handling bidding environments
xstring, % for easy string processing.
tracklang,% for iterating over loaded languages
pict2e, % for drawing the compass
}

Add exceptions for xspace
\xspaceaddexceptions{%
= \markit \, \suit \GetTranslation
2 3 4 5 6 7 8 9 T J Q K A
}%

Load the fallback dictionary. This is the default one and equals the English dictionary. All other dictionaries are loaded on the fly, when needed, provided they are in the \TeX-path.
\LoadDictionaryFor{fallback}{ODw}

6.1.2 Options

We use the \texttt{pgf} \texttt{(key)=(val)} system for our options: \texttt{colors}, \texttt{warn} and \texttt{err}.
\pgfkeys{/ODw/.is family}
def\ODw@set#1\{\pgfkeys{/ODw,#1}\}
\ODw@set{colors/.is choice,}
\ODw@set{warn/.is choice,}
\ODw@set{err/.is choice,}
The details for option \texttt{colors} are on page 39ff and those for option \texttt{warn} and \texttt{err} on page 100.

6.1.3 Misc

\textbackslash, \textbackslash
\thinspace

\texttt{\thinspace} We redefine \texttt{\thinspace} (originally 1\textsubscript{6}em) to a smaller amount. That makes denominations like 3\sp\textsubscript{(3)} look better. The code is from: \url{https://tex.stackexchange.com/questions/181003/multiply-fine-}
This code however doesn't work when coded within an own package, unless we use \AtBeginDocument.

```latex
\AtBeginDocument{\%
\renewcommand{\,}{\ifmmode\mskip#1\thinmuskip{\else}\thinspace{\,[1]\fi%}
\renewcommand{\thinspace}{\kern#1\dimexpr0.16667em\relax%}
}%\AtBeginDocument

\gdef\ODw@gsetlength#1#2{\%
\begingroup\setlength\skip@{#2}% local assign to scratch reg.
\global#1=\skip@% global assignment to #1;
\endgroup% restore \skip@ by endgroup.
}%\ODw@gsetlength
```

We need to store the length of certain objects that are within a group (the group is needed to keep the font-size changes local). Therefore we define macro \ODw@gsetlength that works globally. The code is based upon a solution on LaTeX StackExchange: (https://tex.stackexchange.com/questions/406015/defining-macro-gsetlength-as-global-setlength-reliable)

```latex
\gdef\ODw@append#1{\%
\begingroup\edef\tmp{\the\ODw@Scratch #1}\%
\global\ODw@Scratch=\expandafter{\tmp}%
\endgroup%}
```

In the environment play we need to calculate the winning tricks for N–S and E–W. We store this information as a string in \ODw@Scratch and use \ODw@append to accumulate them.

```
\gdef\ODw@append#1{\%
\begingroup\edef\tmp{\the\ODw@Scratch #1}\%
\global\ODw@Scratch=\expandafter{\tmp}%
\endgroup%}
```

\footnote{For details see page 90}
6.1.4 Variables

In this package we do use font relative sizing. That means that widths and skips are defined in terms of \texttt{em}, \texttt{ex} and \texttt{baselineskip}. On the other hand there are e.g. the real world names of the bidders, that must be recorded. Some of these the user should be able to control. Rather than forcing the user to do that directly with \texttt{\def} or \texttt{\renewcommand} we store all this information in internal variables, by defining a constant command. These variables can be set by calling a user command, that is associated with the variable. E.g. the variable \texttt{\ODwSkipwidth} gets set by the command \texttt{\handskip}. The variables we use are:

- Controlled by \texttt{\bidderfont}: the font used for the players (bidding).
- Controlled by \texttt{\compassfont}: the font used for the compass.
- Controlled by \texttt{\gamefont}: the font used for all card diagrams
- Controlled by \texttt{\legendfont}: the font used for the annotations.
- Controlled by \texttt{\namefont}: the font used for the real world names.
- Controlled by \texttt{\otherfont}: the font used for other bridge expressions, also outside diagrams.

These contain the default values for the fonts

- Controlled by \texttt{\ODwBidderDefault}
- Controlled by \texttt{\ODwCompassDefault}
- Controlled by \texttt{\ODwGameDefault}
- Controlled by \texttt{\ODwLegendDefault}
- Controlled by \texttt{\ODwNameDefault}
- Controlled by \texttt{\ODwOtherDefault}

- Controlled by \texttt{\ODwNorthName}: hold the real world names of the \textbf{North} and the \textbf{South} player.
- Controlled by \texttt{\ODwSouthName}
- Controlled by \texttt{\ODwEastName}: hold the real world names of the \textbf{East} and the \textbf{West} player. These names are typeset using the font specified with \texttt{\namefont}.
- Controlled by \texttt{\ODwWestName}
- Controlled by \texttt{\ODwBoardText}: holds the board number and extra text.
- Controlled by \texttt{\ODwHeaderText}: holds header information for card diagrams.
- Controlled by \texttt{\ODwFooterText}: holds footer information for card diagrams.
- Controlled by \texttt{\ODwLast}: Used in command \texttt{\ODwTricks}: to store the player that had the lead\textsuperscript{13}.
- Controlled by \texttt{\ODwSkipwidth}: holds the distance between hand and bidding diagram.

\textsuperscript{13}see page 89

34
53 \def\ODw@CompSize{1}\% factor to enlarge the compass
54 \def\ODw@CompLine{}\% thickness of compass frame
55 \def\ODw@Skipwidth{1em}\%

6.1.5 Booleans, Saveboxes, Lengths, Counters and Registers

6.1.5.1 Booleans

`\ifODw@description` is used in the bidding environments and the command `expertquiz` to test if there is an annotation that should be written.

`\ifODw@short` is used in the bidding environments and the command `expertquiz` to denote if a short form of the diagram header is to be used.

`\ifODw@monochrome` flags the case that the user specified `colors=0` or `colors=1`, i.e. just black and white. In this situation we will not print the vulnerable side in red, but use italics instead.

`\ifODw@CardSkip` determines whether we need some extra space between card ranks (i.e. in suit descriptions) or not (i.e. in bidding or play diagrams).

`\ifODw@Bidders` suppresses the bidders in the bidding header.

`\ifODw@BidLine` draw a `\hline` below the bidding header.

`\ifODw@LongCalls` determines whether to use the short (like `N`) or the long form (like `North`) for calls in the bidding diagram.

`\ifODw@CompShow` With `\ifODw@CompShow` one can suppress drawing a compass within card diagrams completely.

`\ifODw@CompTurn` With `\ifODw@CompTurn` one rotates letters `E` and `W` in the compass 90°.

56 \newif\ifODw@description\% must typeset an annotation
57 \newif\ifODw@short\% short form in bidding header
58 \newif\ifODw@monochrome\% no colors wanted
59 \newif\ifODw@CardSkip\% skip between ranks needed

The next booleans are directly controlled by `\setdefault`.

60 \newif\ifODw@Bidders\% suppress bidders in bidding header
61 \newif\ifODw@BidLine\% draw `\hline` below bidding header
62 \newif\ifODw@LongCalls\% switch between long/short calls
63 \newif\ifODw@CompShow\% show compass or not
64 \newif\ifODw@CompTurn\% turn E-W letters 90°

Since there seems to be a problem in using `\ifthenelse` in particular places, these booleans are set by calling `ODw@TestIfEmpty` (which uses `\ifthenelse` bites `multicolumn`!)

35
an ordinary \ifthenelse) \textit{outside} the dangerous places, and then use e.g. \ifODw@EmptyHeader as a test whether the header is empty or not.

\begin{verbatim}
65 \newboolean{ODw@EmptyHeader}% = 'header is empty'
66 \newboolean{ODw@EmptyFooter}% = 'footer is empty'
\end{verbatim}

\subsection*{6.1.5.2 Saveboxes}

\begin{verbatim}
\ODw@Diagram@Box\ODw@Diagram@Box is to store the actual card diagram (the compass with the hands) in order to calculate its width.
\ODw@BidBox\ODw@BidBox stores a bidding diagram.
\ODw@Hand@Box\ODw@Hand@Box stores a hand with the 4 suits.
\end{verbatim}

\begin{verbatim}
67 \newsavebox\ODw@Diagram@Box
68 \newsavebox\ODw@Hand@Box
69 \newsavebox\ODw@BidBox
\end{verbatim}

\subsection*{6.1.5.3 Lengths}

\begin{verbatim}
\ODw@Bid@Width\ODw@Bid@Width is used to store the actual width of the bidding diagram.
\ODw@Card@Skip\ODw@Card@Skip Defines space between adjacent cards in suits.
\ODw@Diagram@Width\ODw@Diagram@Width Defines the width of compass plus (E–W) hands.
\ODw@Skip@Width\ODw@Skip@Width Defines the distance between the card diagram and the bidding diagram.
\ODw@Tmp@Len\ODw@Tmp@Len Auxiliary lengths, used in several calculations.
\ODw@Tmp@Width\ODw@Tmp@Width
\end{verbatim}

\begin{verbatim}
70 \newlength\ODw@Compasssize% the size of the compass.
71 \newlength\ODw@Diagram@Width
72 \newlength\ODw@Card@Skip
73 \setlength\ODw@Card@Skip{.15em}% space between cards
74 \newlength\ODw@Bid@Width
75 \newlength\ODw@Skip@Width
76 \setlength\ODw@Skip@Width{\ODw@Skipwidth}
77 \newlength\ODw@Tmp@Len% temp var for computations
78 \newlength\ODw@Tmp@Width% temp var for computations
\end{verbatim}

\subsection*{6.1.5.4 Counters}

\begin{verbatim}
\ODw@Nr\ODw@Nr Counts lines (in play diagrams) and explanations (in bidding diagrams).
79 \newcounter{ODw@Nr}
\ODw@Cnt\ODw@Cnt Auxiliary counter, used in several calculations.
80 \newcounter{ODw@Cnt}
\end{verbatim}

36
Set to the player that won the trick in environment play.

\newcounter{ODw@PlayerNr}

Holds the number of N-S tricks in environment play.

\newcounter{ODw@NSCnt}

Holds the number of E-W tricks in environment play.

\newcounter{ODw@EWCnt}

6.1.5.5 Registers

\newtoks{ODw@Scratch}

Temporary store for winning tricks in environment play.

6.1.6 Fonts

6.1.6.1 Text Fonts

Here we merely define the commands to set the default fonts. At the end of this .sty file they are set to their value. Refer to section 6.10 for details.

\bidderfont

The font used to indicate the symbolic player (N, E, S, W) in bidding diagrams. The default is \mdseries\sffamily.

\newcommand\bidderfont[1]{\gdef\ODw@BidderFont{#1}}

\compassfont

The font used to indicate the directions (N, E, S, W) in the compass.

\newcommand\compassfont[1]{\gdef\ODw@CompassFont{#1}}

\namefont

The font used for the real world names of the players in bidding diagrams. The default is \mdseries\slshape.

\newcommand\namefont[1]{\gdef\ODw@NameFont{#1}}

\legendfont

The font used for the conditions in card diagrams. The default is \mdseries\rmfamily.

\newcommand\legendfont[1]{\gdef\ODw@LegendFont{#1}}

\otherfont

The font used for the other bridge expressions like \north, \pass or \double. The default is \bfseries\sffamily.

\newcommand\otherfont[1]{\gdef\ODw@OtherFont{#1}}

\gamefont

The font for the hands and calls. It sets the general font-size/widths for the game. The default is \bfseries\sffamily.
We use widths that are dynamically adjusted at font changes and store the 'value' as text in \ODw@GameFont.

\ODw@GameSize recalculates these sizes and is called in all show- and bid-diagrams.

\newcommand\gamefont[1]{% 
\gdef\ODw@GameFont{#1}% 
\gdef\ODw@GameSize{% recalculate dimens for the new font 
\ODw@GameFont% 
\setlength\ODw@Skip@Width{\ODw@Skipwidth}% 
}% }% gamefont

6.1.6.2 Symbol Font

We need special symbols to get solid colored ♥ and ♦, rather than ♥ and ♦. We use those from stix. As the shape of the 'normal' black suits differ from the red ones we also take the black suits from the font stix. First we define the symbols and font. As we do not want to load the complete package, we only use the relevant piece of code found in txfont.sty:

\fontencoding{T1}\fontfamily{stix}\fontseries{m}\fontshape{n}\selectfont
\% Code stolen from txfonts.sty.
\% It works smoothly: thank you guys!
\% \%\% 
\DeclareSymbolFont{symbols}{OMS}{txsy}{m}{n}
\SetSymbolFont{symbols}{bold}{OMS}{txsy}{bx}{n}
\DeclareFontSubstitution{OMS}{txsy}{m}{n}
\DeclareSymbolFont{symbolsC}{U}{txsyc}{m}{n}
\SetSymbolFont{symbolsC}{bold}{U}{txsyc}{bx}{n}
\DeclareFontSubstitution{U}{txsyc}{m}{n}
\ODw@spadesuit
\DeclareMathSymbol{\ODw@spadesuit}{\mathord}{symbols}{127}
\ODw@varheart
\DeclareMathSymbol{\ODw@varheart}{\mathord}{symbolsC}{114}
\ODw@vardiamond
\DeclareMathSymbol{\ODw@vardiamond}{\mathord}{symbolsC}{113}
6.2 Bridge Basic Terms

6.2.1 Suit Symbols

First we supply shorthands for the ‘five’ suits (♣, ♠, ♥, ♦ and NT) that are used in the game of bridge. We define the international version with the English shortcuts. We use the xcolor package to colorize the suit symbols. The color can be set as an \langle key⟩=\langle val⟩ option when loading the package. The option colors=0 means mono-color (black only), synonyms of key 0 are mono and black. colors=1 means black and white, a synonym is b+w. colors=2 means bi-color (black and red), with synonym b+r. colors=4A gives qua-color (green, orange, red and blue); synonyms are fourA and 4a. Finally colors=4B defines the second qua-color (black, orange, red and green) with synonyms fourB and 4b.

We precede all the suit symbols with a ‘very-thin-space’ (\,\[0.3\]) which is 0.3 the size of a normal \thinspace.

In order to test which suit (\Cl,...) was encountered in \ODw@translate\footnote{see page 45} we must define the suits with a \renewrobustcommand. So we must \def them first.

\% \def them first and then use renewrobustcmd!
\def\Cl{}\def\Di{}\def\He{}\def\Sp{}%
\ODw@set{%
colors/0/.code={%
  \ODw@monochrometrue%
  \renewrobustcmd\Cl{\textcolor{black}{\,\[0.3\]\ensuremath{\ODw@clubsuit}}}xspace%
  \renewrobustcmd\Di{\textcolor{black}{\,\[0.3\]\ensuremath{\ODw@vardiamond}}}xspace%
  \renewrobustcmd\He{\textcolor{black}{\,\[0.3\]\ensuremath{\ODw@varheart}}}xspace%
  \renewrobustcmd\Sp{\textcolor{black}{\,\[0.3\]\ensuremath{\ODw@spadesuit}}}xspace%
}%
\ODw@set{colors/0/.code={\pgfkeys{/ODw/colors=0}}}
\ODw@set{colors/black/.code={\pgfkeys{/ODw/colors=0}}}%
\DOw@set{%
colors/1/.code={%
  \DOw@monochrometrue%
  \renewrobustcmd\Cl{\textcolor{black}{\[0.3\]\ensuremath{\DOw@clubsuit}}\xspace}
  \renewrobustcmd\Di{\textcolor{black}{\[0.3\]\ensuremath{\diamondsuit}}\xspace}
  \renewrobustcmd\He{\textcolor{black}{\[0.3\]\ensuremath{\heartsuit}}\xspace}
  \renewrobustcmd\Sp{\textcolor{black}{\[0.3\]\ensuremath{\spadesuit}}\xspace}
}%
}\DOw@set{colors/b+w/.code={\pgfkeys{/ODw/colors=1}}}%
\DOw@set{%
colors/2/.code={%
  \DOw@monochromefalse%
  \renewrobustcmd\Cl{\textcolor{black}{\[0.3\]\ensuremath{\DOw@clubsuit}}\xspace}
  \renewrobustcmd\Di{\textcolor{red}{\[0.3\]\ensuremath{\vardiamond}}\xspace}
  \renewrobustcmd\He{\textcolor{red}{\[0.3\]\ensuremath{\varheart}}\xspace}
  \renewrobustcmd\Sp{\textcolor{black}{\[0.3\]\ensuremath{\spadesuit}}\xspace}
}%
}\DOw@set{colors/b+r/.code={\pgfkeys{/ODw/colors=2}}}%
\DOw@set{%
colors/4A/.code={%
  \DOw@monochromefalse%
  \renewrobustcmd\Cl{\textcolor{green}{\[0.3\]\ensuremath{\DOw@clubsuit}}\xspace}
  \renewrobustcmd\Di{\textcolor{orange}{\[0.3\]\ensuremath{\vardiamond}}\xspace}
  \renewrobustcmd\He{\textcolor{red}{\[0.3\]\ensuremath{\varheart}}\xspace}
  \renewrobustcmd\Sp{\textcolor{blue}{\[0.3\]\ensuremath{\spadesuit}}\xspace}
}%
}\DOw@set{colors/fourA/.code={\pgfkeys{/ODw/colors=4A}}}%
\DOw@set{colors/4a/.code={\pgfkeys{/ODw/colors=4A}}}%

Because some languages use a different symbol for \textit{NT} (\textit{No Trump}) we must look it up in the dictionary to find e.g. \textit{SA} (\textit{Sans Atout}) for German.

Define a practical shorthand to produce \textit{NT} without the need to add a token.

\def\NT{\nt*!}
essentially the intrinsic rank of the card (2 for a 2, 14 for an Ace), but there are special cases:

- Spot cards (denoted with x) always get rank 0
- Discards always get rank 0
- Trump cards get 15 (15 to ensure that a spot trump card defeats an Ace) added to the intrinsic rank, to make sure that:
  - A trump card will defeat all other cards
  - The highest trump card will win the trick

We first define three variables, one to store the suit of the actual card, the second one to store which suit was led and the last variable to store which suit is the trump suit, all initialized with the 'NT-suit'.

\[\begin{align*}
\text{gdef}\ Odw@SuitPlayed{N} \\
\text{gdef}\ Odw@SuitLead{N} \\
\text{gdef}\ Odw@TrumpSuit{N} \\
\text{newcounter}\ Odw@Rank \\
\text{def}\ Odw@SetRank#1{\%} \\
\text{ifthenelse}\{\text{equal}\{Odw@SuitPlayed\}{Odw@SuitLead}\}\% \\
\{\text{setcounter}\{Odw@Rank\}\{1\}\% \\
\{\% \text{ else, if a suit is not followed then ...} \\
\{\% \text{ at NoTrump, the trumpsuit is coded 'N' and will not match a real suit (coded C, D, H and S))} \\
\{\% \text{ thus avoiding that trump cards are detected} \\
\{\text{ifthenelse}\{\text{equal}\{Odw@SuitPlayed\}{Odw@TrumpSuit}\}\% \\
\{\% \text{ if it is a trump card, increase the rank} \\
\{\text{setcounter}\{Odw@Rank\}\{1\}\% \\
\{\text{addtocounter}\{Odw@Rank\}\{15\}\% \\
\{\% \text{ if it is a discard, set the rank to 0 to make sure it will never win} \\
\{\text{setcounter}\{Odw@Rank\}\{0\}\% \\
\}% \text{ ifthen} \\
\% \text{ If the card was of another suit, then Odw@SuitPlayed was changed.} \\
\% \text{ If we encounter 'unsuited' cards, then we must reestablish the original Odw@SuitPlayed.} \\
\text{global}\text{def}\{Odw@SuitPlayed\{Odw@SuitLead\}\% \text{ org. suit} \\
\}% \text{ Odw@SetRank}
\end{align*}\]
This macro gets called by \texttt{ODw@Tfer} which is automatically called in the environments \texttt{play}, \texttt{bidding} and \texttt{biddingpair} by means of \texttt{columntype P} and \texttt{columntype B} to convert at one hand the shorthand suit code in suit symbols and at the other hand to translate card honors into the active language. It also converts the card value \texttt{T} into \texttt{10} and a hyphen into an en-dash. It calls \texttt{\ODw@translate} to do the work.

The following code was contributed on StackExchange by egreg, see \url{https://tex.stackexchange.com/questions/417731/problem-with-xstring-ifeqcase-case-falls-thru/417788?noredirect=1#comment1045001_417788}.

\begin{verbatim}
\ExplSyntaxOn
% NB: now all spaces are ignored, use `'` if needed.
\NewDocumentCommand{\ODw@Xfer}{m}{
  \bgroup
  % we do not want spaces here
  \def\xspace{}
  \tl_map_function:nN {#1} \ODw@translate:n
  \egroup}
\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate\ODw@translate
\end{verbatim}

\texttt{\ODw@translate} processes a (relatively short) string of tokens that determine an entry in \texttt{bidding} or \texttt{play} diagrams, and also in all situations where suits are defined. It gets called by \texttt{\ODw@Xfer}.

It expects bridge stuff describing strings like \texttt{AKT54} to produce the suit \texttt{AK1052}, \texttt{2H\textbf{alert}} to produce the call \texttt{2\textasteriskcentered} in the \texttt{bidding} diagram, or \texttt{DA} to produce \texttt{\textbullet{}A} as entry in the \texttt{play} diagram to show that the ace of diamonds was played. Please note that constructs like \texttt{\textit{DA}} or \texttt{\frame{2H}} are not allowed and will produce rather misleading errors like:

\begin{verbatim}
! Argument of \texttt{\ODw@translate:n} has an extra \texttt{)}\ or
! Missing number, treated as zero.
\end{verbatim}

Even clever people who use \texttt{\frame{2H}} will get disappointed, because they’ll get \texttt{2H} rather than the wanted \texttt{2\textasteriskcentered}. But the very clever people can reach their goal by using \texttt{\frame{2\textasteriskcentered}} or \texttt{\textit{2A}}.

\begin{verbatim}
\cs_new_protected:Nn \ODw@translate:n
  {%
    \setcounter{ODw@Rank}{0}
    \str_case:nnTF {#1}
\end{verbatim}

43
{ % Store the suit of the card played
  % needed to determine the winner
  % and for checking for multiple cards
  {C}\{C\}\gdef\ODw@SuitPlayed{C}
  {D}\{D\}\gdef\ODw@SuitPlayed{D}
  {H}\{H\}\gdef\ODw@SuitPlayed{H}
  {S}\{S\}\gdef\ODw@SuitPlayed{S}
  {N}\{NT\}gdef\ODw@SuitPlayed{N}
% Translate a hyphen into an en-dash
{-}{--}
% 1: translate the honour cards,
% 2: store the played cards for checking
% 3: and set their rank. This must be done last, because
% \ODw@SetRank resets \ODw@SuitPlayed to \ODw@SuitLead
% Honour Cards
% 1 2
{A}\{Ace*!\ODw@AppendCard{\ODw@SuitPlayed}{A}
  \ODw@SetRank{14}}% 3
{K}\{King*!\ODw@AppendCard{\ODw@SuitPlayed}{K}
  \ODw@SetRank{13}}
{Q}\{Queen*!\ODw@AppendCard{\ODw@SuitPlayed}{Q}
  \ODw@SetRank{12}}
{J}\{Jack*!\ODw@AppendCard{\ODw@SuitPlayed}{J}
  \ODw@SetRank{11}}
{T}\{\kern-0.1em1\kern-0.1em0% massage 1 and 0 a bit
  \ODw@AppendCard{\ODw@SuitPlayed}{T}\ODw@SetRank{10}}
% Numeral Cards
% 1 % this enables e.g. 1\He in biddings
{9}\{9\ODw@AppendCard{\ODw@SuitPlayed}{9}\ODw@SetRank{9}}
{8}\{8\ODw@AppendCard{\ODw@SuitPlayed}{8}\ODw@SetRank{8}}
{7}\{7\ODw@AppendCard{\ODw@SuitPlayed}{7}\ODw@SetRank{7}}
{6}\{6\ODw@AppendCard{\ODw@SuitPlayed}{6}\ODw@SetRank{6}}
{5}\{5\ODw@AppendCard{\ODw@SuitPlayed}{5}\ODw@SetRank{5}}
{4}\{4\ODw@AppendCard{\ODw@SuitPlayed}{4}\ODw@SetRank{4}}
{3}\{3\ODw@AppendCard{\ODw@SuitPlayed}{3}\ODw@SetRank{3}}
{2}\{2\ODw@AppendCard{\ODw@SuitPlayed}{2}\ODw@SetRank{2}}
% A spot card has rank 0
{x}\{x\ODw@SetRank{0}}
% %\Non cards (bidding only)
{1}\{1\}% this enables e.g. 1\He in biddings
{p}\{if\ODw@LongCalls\Pass*\else\Pass!*\fi}
{P}\{if\ODw@LongCalls\Allpass*\else\Allpass*!\fi}
We offer the possibility that one can use also \textit{He} in bidding and play diagrams rather than just the abbreviation $H$. Therefore we must test which suit was given and set $\text{ODw@SuitPlayed}$ accordingly. To make this test work, we had to redefine the suit macros with an $\textit{\renewrobustcmd}$ \newcommand{#1}{#1}% enables e.g. 1\He 

Curiously enough the phenomena does not occur anymore. I leave the expandafter in, until this is cleared.

In order to do a simple consistency check in play diagrams, we need to store the cards that were played. We do that for each suit in the variable $\text{ODw@suit}$. This macro is called in $\text{ODw@translate}$, i.e. for all situations where cards are to be manipulated. But the result of $\text{ODw@AppendCard}$ is used only within play diagrams. The macro $\text{ODw@appendcard}$ appends 1 character to a string.
This macro is called within play diagrams where we can write HA and get ♥A. Also all relevant symbols get translated into the active language. We use the counter ODw@PlayerNr to determine the column in the play diagrams with the winning card, and from this we can compute which player won the trick. ODw@PTfer is essentially called for each entry in all columns of the play diagram through the column definition:

\newcolumntype{P}{>{\collectcell ODw@PTfer}c<\endcollectcell}

We first define two counters, both initially set to zero.

\newcounter{ODw@Highest}% the highest rank until now
\setcounter{ODw@Highest}{0}
\newcounter{ODw@WinningNr}% player with the highest rank
\setcounter{ODw@WinningNr}{0}

\def\ODw@PTfer#1{%
\stepcounter{ODw@PlayerNr}%
\ODw@Xfer{#1}% ODw@Rank = the rank for this card
\ifthenelse{\value{ODw@Rank} > \value{ODw@Highest}}{% This rank is higher than previous highest one
\setcounter{ODw@WinningNr}{\theODw@PlayerNr}%
\setcounter{ODw@Highest}{\theODw@Rank}%
\}%
\}{% last player: Process the winning trick:
\stepcounter{ODw@WinningNr}% Start new row with new player
\ODw@AccTricks% Accumulate tricks for N-S/E-W
\}%
\}
\texttt{\textbackslash ODw@FTfer\{(tokens\}\}}

\texttt{\textbackslash ODw@FTfer} is called for the first column of the play diagram TableII. In \texttt{\textbackslash ODw@Tricks} it just resets \texttt{ODw@PlayerNr} and \texttt{ODw@Last} and writes the player who leads. Finally it processes the entry of the first column by calling \texttt{\textbackslash ODw@FTfer}. \texttt{\textbackslash ODw@FTfer} is essentially called for the entries in the first column of TableII in the play diagram through the column definition:

\begin{verbatim}
newcolumntype{F}{>{\collectcell\texttt{ODw@FTfer}}c<{\endcollectcell}}
\def\texttt{ODw@FTfer}\#1{\%\texttt{ODw@Tricks}\%\texttt{ODw@PTfer}\#1\%\}
\end{verbatim}

This macro is called within bidding diagrams and enables us to type 1C\texttt{\textbackslash announce} and get 1♣A. The symbols get translated into the active language. \texttt{\textbackslash ODw@BTfer} is essentially called for each entry in the bidding diagrams through:

\begin{verbatim}
newcolumntype{B}{>{\collectcell\texttt{ODw@BTfer}}c<{\endcollectcell}}
\def\texttt{ODw@BTfer}\#1{\%\texttt{ODw@Xfer}\#1\%}
\end{verbatim}

As there is no special processing for the bidding entries, we call \texttt{\textbackslash ODw@Xfer} right away to do the job.

\texttt{\textbackslash def\texttt{ODw@BTfer}\#1{\%\texttt{ODw@Xfer}\#1\%}}

6.2.2 Names of Directions and Axes

\texttt{\textbackslash North}\!

\texttt{\textbackslash north}

\begin{verbatim}
\NewDocumentCommand\North{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF#1{\IfBooleanTF{#2}{\ODw@N*}{\ODw@North*}}{\IfBooleanTF{#2}{\ODw@N}{\ODw@North}}%\%\TF#1}
\end{verbatim}

47
\East \East \!
\east
\east
\NewDocumentCommand\East{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF#1{\IfBooleanTF{#2}{\ODw@E*}{\ODw@East*}}}{\IfBooleanTF{#2}{\ODw@E}{\ODw@East}}% TF#1\egroup\xspace}% East\def\east{\East*}
\south \south
\NewDocumentCommand\South{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF#1{\IfBooleanTF{#2}{\ODw@S*}{\ODw@South*}}}{\IfBooleanTF{#2}{\ODw@S}{\ODw@South}}% TF#1\egroup\xspace}% South\def\south{\South*}
\West
\West *

\west
\west

390 \NewDocumentCommand\West{s t!}{%
391 \bgroup%
392 \ODw@OtherFont%
393 \IfBooleanTF#1{%
394 \IfBooleanTF{#2}{\ODw@W*}{\ODw@West*}%
395 }%
396 \IfBooleanTF{#2}{\ODw@W}{\ODw@West}%
397 }% TF#1
398 \egroup%
399 \xspace%
400 % West
401 %
402 \def\west{\West*}

\NorthSouth
\NorthSouth *

\northsouth
\northsouth

403 \NewDocumentCommand\NorthSouth{s t!}{%
404 \bgroup%
405 \ODw@OtherFont%
406 \IfBooleanTF#1{%
407 \IfBooleanTF{#2}{\North*!--\South*!}{\North*--\South*}%
408 }%
409 \IfBooleanTF{#2}{\North*--\South*!}{\North*--\South*}%
410 }% NorthSouth
411 %
412 \egroup%
413 \xspace%
414 % NorthSouth
415 \def\northsouth{\NorthSouth*}

\EastWest
\EastWest *

\eastwest
\eastwest

416 \NewDocumentCommand\EastWest{s t!}{%
417 \bgroup%
Next we define macros that translate the short form of the directions into the active language.

\def\ODw@N{\GetTranslation{N-(ODw)}}
\def\ODw@E{\GetTranslation{E-(ODw)}}
\def\ODw@S{\GetTranslation{S-(ODw)}}
\def\ODw@W{\GetTranslation{W-(ODw)}}
\def\ODw@NS{\GetTranslation{N--\ODw@S}}
\def\ODw@EW{\GetTranslation{E--\ODw@W}}
\def\ODw@North{\GetTranslation{North-(ODw)}}
\def\ODw@East{\GetTranslation{East-(ODw)}}
6.2.3 Non-Bid Calls

\Pass \Pass *
\pass
\Pass \Pass *
\Allpass \Allpass *
\allpass
\Allpass \Allpass *
6.2.4 Bidding Diagrams

\texttt{\textbackslash ODw@FirstBidCol}\{N|S|E|W\}

\texttt{\textbackslash ODw@FirstBidCol} determines which player starts in the first bidding column. We also take care that the real world name of the players are kept associated with the columns. For \texttt{\textbackslash ODw@BidderX} (X=I,II,III,IV) we define two macros: \texttt{\textbackslash ODw@BidderX} and \texttt{\textbackslash ODw@BidderX*} in one. When these macros are called in the bidding diagram, the starred version writes the short notation whereas the unstarred one writes the long version.
Next we define the real world names for the N–S and the E–W bidders. We use $\texttt{ODw@All@Names}$ as variable to test if we have names for bidders at all: If it is empty, then no names were defined.

\begin{verbatim}
\newcommand\namesNS[2]{\gdef\ODw@North@Name{#1}\gdef\ODw@South@Name{#2}\gdef\ODw@All@Names{#1#2\ODw@East@Name\ODw@West@Name}}
\end{verbatim}

\begin{verbatim}
\newcommand\namesEW[2]{\gdef\ODw@East@Name{#1}\gdef\ODw@West@Name{#2}}
\end{verbatim}
6.2.5 Diagram Hands

Here we implement commands that store the cards that each player holds. E.g. \northhand defines the complete hand, i.e. all 4 suits for the North-player. They have an optional parameter (an offset, default 0pt) to finetune the distance to the compass. In \ODwNhand and \ODwShand we use a makebox to prevent that its width goes beyond the NESW compass (but this can interfere with the Right-U/L-Legend). Within these macros, we check the consistency of the cards in the hand and also store card-information to check a complete deal later.

```
\northhand[v-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\northhand[v-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\northhand[v-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\northhand[v-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
```

```
\ODwNhand
\ODwNhand
```

We fit the North hand in a box to avoid that a very long suit shifts the East hand to the right.

```
\ODwNhand
\ODwNhand
```

```
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
```

```
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
```

```
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
```

```
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
\easthand[h-offset]\{Sp\}\{He\}\{Di\}\{Cl\}
```
\newcommand\easthand[5][0pt]{%\% 
% check that east has 13 cards
\ODw@ChkNrOfCards{#2#3#4#5}{\east}\
\gdef\ODw@ESpades{#2}% Save easts cards
\gdef\ODw@EHearts{#3}% of all suits
\gdef\ODw@EDiamonds{#4}% for later
\gdef\ODw@EClubs{#5}% checking
\easthand
\gdef\ODw@Ehand{% 
% hspace{#1}%
\ODw@hand{c}#2#3#4#5%
)%
\% easthand

\southhand
\southhand[v-offset]{Sp}{He}{Di}{Cl}
1 2 3 4 5
\newcommand\southhand[5][0pt]{%\% 
% check that south has 13 cards
\ODw@ChkNrOfCards{#2#3#4#5}{\south}\
\gdef\ODw@SSpades{#2}% Save souths cards
\gdef\ODw@SHearts{#3}% of all suits
\gdef\ODw@SDiamonds{#4}% for later
\gdef\ODw@SClubs{#5}% checking
\southhand
\gdef\ODw@Shand{% 
% hspace{#1}%
\ODw@hand{b}#2#3#4#5%
)%
\% southhand

We fit the \textbf{South} hand in a box to avoid that a very long suit shifts the \textbf{East} hand to the right
\gdef\ODw@Shand{% 
% hspace{#1}%
\parbox[b]{\ODw@Compasssize + 2ex}{% 
% vspace{#1}par%
% makebox[Opt][1]{% 
% ODw@hand{b}#2#3#4#5%
% )% 
% )% 
% )% southhand

\westhand
\westhand[h-offset]{Sp}{He}{Di}{Cl}
1 2 3 4 5

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\newcommand{\westhand}{%}
% check that west has 13 cards
\ODw@ChkNrOfCards{#2#3#4#5}{\west}\
\gdef\ODw@WSpades{#2}% Save wests cards
\gdef\ODw@WHearts{#3}% of all suits
\gdef\ODw@WDiamonds{#4}% for later
\gdef\ODw@WClubs{#5}% checking

\ODw@Whand
\gdef\ODw@Whand{%
\ODw@hand{c}{#2}{#3}{#4}{#5}%
\hspace*{#1}%
}% westhand

6.2.6 A Single Hand

Sometimes we want to show only (the cards of) one single hand.

\NewDocumentCommand{\hand}{s t! t- O{c}mmmm}{%}
\hand* ! -\[pos\]{Sp}{He}{Di}{Cl}
1 2 3 4 5 6 7 8
This macro has 3 optional tokens that act as follows:
Naked mode: Displays the hand horizontally, left aligned.
* mode: Displays the hand horizontally, centered.
! mode: Displays the hand vertically, left aligned.
*! mode: Displays the hand vertically, centered.
- mode: Output is suppressed, it is stored in a savebox for later use.
The 4th argument is the aligning (used only in case of a vertical hand):
default c. The rest of the arguments denote the cards of the suits.

We first check that this hand has 13 cards. Then we check for
each suit that there are no multiples. Finally we store the hand in
\ODw@Hand@Box. If output is not suppressed, we write the hand with
\usebox{\ODw@Hand@Box}.
\ODw@ChkNrOfCards{#5#6#7#8}{\Hand}%
\ODw@ChkSameCards{#5}{\Sp}%
\ODw@ChkSameCards{#6}{\He}%
\ODw@ChkSameCards{#7}{\Di}%
\ODw@ChkSameCards{#8}{\Cl}%
Displays a hand horizontally (e.g. ♠ xxxx ♥ xxx ♦ xxx ♣ xxx). We use a tabular with 4 columns in 1 row to print the 4 suits.

\newcommand{\ODw@hhand}[4]{% 
\bgroup% 
\def{xspace}{% undo xspace locally 
\setlength{\tabcolsep}{1\ODw@Card@Skip}% 
\begin{tabular}{llll} 
\Sp\hspace{0.3em}\ODw@Cards{#1} &\He\hspace{0.3em}\ODw@Cards{#2} &\Di\hspace{0.3em}\ODw@Cards{#3} &\Cl\hspace{0.3em}\ODw@Cards{#4} \\
\end{tabular}% 
\egroup% 
} % ODw@hhand

Display a hand vertically (e.g. ♥ xxxx ♦ xxxx ♣ xxxx). We call \ODw@vhand to do the job.

\newcommand{\ODw@vhand}[5][c]{% 
\ODw@hand{#1}{#2}{#3}{#4}{#5}% 
} % ODw@vhand

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We put a hand and some spacing in a tabular by reading the cards for each suit, making the lines more tense with the $\backslash\{-0.5\text{ex}\}$. Empty hands are discarded completely.

First we test if the hand is completely empty; only if not, we output something.

In some cases, we need only a collection of cards, without a suit symbol.

Display the cards of one suit in a \textbf{NS-EW} diagram, with the \textbf{N-}, \textbf{E-}, \textbf{S-} and \textbf{W-}hand.

First we test that we have no multiple cards in the suit. Then we use a \texttt{tabular} to place the cards around a compass or around a box.
\IfBooleanTF#1{\begin{center}}{}%
\bgroup
\ODw@GameSize%
\setlength{\tabcolsep}{0em}%
\begin{tabular}{@{}r@{ }c@{ }l@{}}
\begin{tabular}{@{}rcl@{}}
& \ODw@Cards{#3} & \IfBooleanTF#2{\
\[-0.2em\]}{\}\
\ODw@Cards{#6} & \IfBooleanTF#2{\ODw@Compass}{\ODw@Box}\
& \ODw@Cards{#5} & \IfBooleanTF#2{\\[-0.2em\]}{\}\
\end{tabular}
\end{tabular}
\egroup
\IfBooleanTF#1{\end{center}}{}%
\end{scope}

\NewDocumentCommand\onesuitNS{s t! mm}{%
\IfBooleanTF#1{\begin{center}}{}%
\bgroup
\ODw@GameSize%
\begin{tabular}{@{}c@{}}
\ODw@Cards{#3}
\IfBooleanTF#2{\ODw@Compass}{\ODw@Box}\
\ODw@Cards{#4}\
\end{tabular}
\egroup
\IfBooleanTF#1{\end{center}}{}%
\end{scope}

\onesuitNS \onesuitNS* !{(N)}{(S)}

Display a suit as NS-diagram. Similar to \onesuitAll but with only N- and S-hand.

\NewDocumentCommand\onesuitNS{s t! mm}{%
\IfBooleanTF#1{\begin{center}}{}%
\bgroup
\ODw@GameSize%
\begin{tabular}{@{}c@{}}
\ODw@Cards{#3} \IfBooleanTF#2{\\[-0.2em\]}{\}\
\ODw@Cards{#6} & \IfBooleanTF#2{\ODw@Compass}{\ODw@Box}\
& \ODw@Cards{#5} & \IfBooleanTF#2{\\[-0.2em\]}{\}\
\end{tabular}
\end{tabular}
\egroup
\IfBooleanTF#1{\end{center}}{}%
\end{scope}

\onesuitNS* !{(N-hand)}{(S-hand)}

Naked version: Use a box
* version: Display the diagram centered
! version: use the NESW compass

\NewDocumentCommand\onesuitNS{s t! mm}{%
\IfBooleanTF#1{\begin{center}}{}%
\bgroup
\ODw@GameSize%
\begin{tabular}{@{}c@{}}
\ODw@Cards{#3} \IfBooleanTF#2{\\[-0.2em\]}{\}\
\ODw@Cards{#6} & \IfBooleanTF#2{\ODw@Compass}{\ODw@Box}\
& \ODw@Cards{#5} & \IfBooleanTF#2{\\[-0.2em\]}{\}\
\end{tabular}
\end{tabular}
\egroup
\IfBooleanTF#1{\end{center}}{}%
\end{scope}

\onesuitEW \onesuitEW* !{(E)}{(W)}

Display a suit as EW diagram. Similar to \onesuitAll but with only E- and W-hand.

\NewDocumentCommand\onesuitEW{s t! mm}{%
Display a suit as NE diagram. Similar to \onesuitAll but with only N- and E-hand.

\NewDocumentCommand\onesuitNE{s t! mm}{\onsuitNE* \{N\}-hand\{E\}-hand}
Display a suit as NW diagram. Similar to \onesuitAll but with only N- and W-hand.

\NewDocumentCommand{\onesuitNW}{s t! mm}{%
onesuitNW* !{N-hand}{W-hand}
    1 2 3 4
Naked version: Use a \[
* version: Display the diagram centered
! version: use the NESW compass
}%
\IfBooleanTF#1{%\begin{center}}{}%
\bgroup%
\ODw@GameSize%
\begin{tabular}{r@{ }c}
& \ODw@Cards{#3}\%\%\%\%
\end{tabular}%
\egroup%
\IfBooleanTF#1{%\end{center}}{}%
}% onesuitEW

\suit{⟨suit symbol⟩}{⟨cards⟩}
Command for displaying the cards of a suit. With the optional argument one can add a suit symbol to the suit.
\newcommand{\suit}[2][]{%\suit[⟨suit⟩]{⟨cards⟩}
\ODw@ChkNrOfCards{#2}{suit}%
\ODw@ChkSameCards{#2}{#1}%
\bgroup% keep font change local
\ODw@GameSize%
\bgroup#1\ODw@Cards{#2}\%\%\%
\egroup%
\xspace%
}% onesuitEW

\ODw@Cards{⟨cards⟩}
This macro gets called by \suit and all commands that process hands. It processes the ranks of the cards. Between ranks some space is type-
set. Care is taken that $T$ becomes 10 and honor cards are translated into the active language.

We enable the cardskip and call \ODw@Xfer to do the job

\begin{verbatim}
\newcommand{\ODw@Cards}{1}{% We enable the cardskip and call \ODw@Xfer to do the job
\OdW@CardSkiptrue%
\ODw@Xfer{#1}%
% \ODw@Cards
\end{verbatim}

\subsection*{6.2.8 Card Diagrams}

Next we define several diagrams with hands around the compass. \ODw@GameSize sets the size of the compass, the directions and the hands, according to the actual font or font-size. \ODw@LeftUpperText etc. displays extra text, that appear in the left upper, etc. corner of the diagram. If \headlinetext (\footlinetext) is the empty string, we set boolean \ODw@EmptyHeader (\ODw@EmptyFooter) to true. This value is used in \ODw@ProcessHeader to conditionally span the 3 columns with the headline- (footline)text. We first store the diagram in a box, so we can calculate its width and use that as a size to limit the header/footer texts.

\begin{verbatim}
\showAll
\showAll** [(pos)]
\end{verbatim}

Define the diagram, showing the cards for All hands.

\begin{verbatim}
NewDocumentCommand\showAll{s t+ O{c}}{%
showAll* + [pos]
  1 2 3
Display the NS--EW diagram, defined by \northhand, etc
* Version: Display the diagram centered
+ Version: Also display a bidding diagram
pos: aligning, default= c
\end{verbatim}

First, for all suits we store all cards of all sides together. Next we check the consistency of all complete suits. The individual suits of each player have already been checked as we defined the hands. Finally we print the hands around the compass using a \texttt{tabular}, taking care of the additions above, below and in the corners of the diagram. Before we write the diagram, we store it in an sbox to calculate its width, so we can use that in other places.

\footnote{see page 35, last paragraph why this is necessary}
\gdef\ODw@Spades{% store all Spades together
  \ODw@NSpades\ODw@ESpades\ODw@SSpades\ODw@WSpades%
}%
\gdef\ODw@Hearts{% store all Hearts together
  \ODw@NHearts\ODw@EHearts\ODw@SHearts\ODw@WHearts%
}%
\gdef\ODw@Diamonds{% store all Diamonds together
  \ODw@NDiamonds\ODw@EDiamonds\ODw@SDiamonds\ODw@WDiamonds%
}%
\gdef\ODw@Clubs{% store all Clubs together
  \ODw@NClubs\ODw@EClubs\ODw@SClubs\ODw@WClubs%
}%
% check for multiple and nr. of cards
\ODw@ChkNrOfCards{\ODw@Spades}{\Sp}%
\ODw@ChkSameCards{\ODw@Spades}{\Sp}%
\ODw@ChkNrOfCards{\ODw@Hearts}{\He}%
\ODw@ChkSameCards{\ODw@Hearts}{\He}%
\ODw@ChkNrOfCards{\ODw@Diamonds}{\Di}%
\ODw@ChkSameCards{\ODw@Diamonds}{\Di}%
\ODw@ChkNrOfCards{\ODw@Clubs}{\Cl}%
\ODw@ChkSameCards{\ODw@Clubs}{\Cl}%
\IfBooleanTF#1{%}
  \begin{center}
  \bgroup
  \setlength\tabcolsep{0em}
  \ODw@GameSize
  \ODw@TestIfEmpty{\ODw@HeaderText}{ODw@EmptyHeader}
  \ODw@TestIfEmpty{\ODw@FooterText}{ODw@EmptyFooter}
% sbox1 necessary to calc. |Compasssize| for |Nhand|
  \sbox{1}{\ODw@Compass}
  \sbox{0}{%}
  \begin{tabular}{@{}r@{}c@{}l@{}}
    \ODw@LeftUpperText & \ODw@Nhand & \ODw@RightUpperText\n    \ODw@Whand & \usebox{1} & \ODw@Ehand\n    \ODw@LeftLowerText & \ODw@Shand & \ODw@RightLowerText\n  \end{tabular}
\end{center}%
\bgroup
\setlength\tabcolsep{0em}
\ODw@GameSize%
\ODw@TestIfEmpty{\ODw@HeaderText}{ODw@EmptyHeader}
\ODw@TestIfEmpty{\ODw@FooterText}{ODw@EmptyFooter}%
\IfBooleanTF#1{%}
  \begin{tabular}{@{}r@{}c@{}l@{}}
    \ODw@LeftUpperText & \ODw@Nhand & \ODw@RightUpperText\n    \ODw@Whand & \usebox{1} & \ODw@Ehand\n    \ODw@LeftLowerText & \ODw@Shand & \ODw@RightLowerText\n  \end{tabular}%
\bgroup
\setlength\tabcolsep{0em}
\ODw@GameSize%
\ODw@TestIfEmpty{\ODw@HeaderText}{ODw@EmptyHeader}
\ODw@TestIfEmpty{\ODw@FooterText}{ODw@EmptyFooter}%
Define the diagram, showing the cards for the N–S hands.

\NewDocumentCommand{\showNS}{s t+ O{c} d()}{\showNS*[+[pos]]((N/S))}

Display the NS diagram, defined by \northhand, etc
* Version: Display the diagram centered
+ Version: Also display a bidding diagram
pos: aligning, default c
N/S: only N-hand (or S-hand) is to be displayed

Description: similar to \showAll

For all suits store all cards of north and south together
\gdef{\ODw@Spades}{\ODw@NSpades\ODw@SSpades}
\gdef{\ODw@Hearts}{\ODw@NHearts\ODw@SHearts}
\gdef{\ODw@Diamonds}{\ODw@NDiamonds\ODw@SDiamonds}
\gdef{\ODw@Clubs}{\ODw@NClubs\ODw@SClubs}
\ODw@ChkSameCards{\ODw@Spades}{\Sp}
\ODw@ChkSameCards{\ODw@Hearts}{\He}
\ODw@ChkSameCards{\ODw@Diamonds}{\Di}
\ODw@ChkSameCards{\ODw@Clubs}{\Cl}
\IfBooleanTF{1}{\begin{center}}{}
\bgroup
\setlength{\tabcolsep}{0em}
\ODw@GameSize
\ODw@TestIfEmpty{\ODw@HeaderText}{\ODw@EmptyHeader}
\ODw@TestIfEmpty{\ODw@FooterText}{\ODw@EmptyFooter}
\egroup
\setlength{\ODw@BidWidth}{\wd{\ODw@BidBox}}
\ODw@CondNewLine
\usebox{\ODw@BidBox}
\egroup
\IfBooleanTF{2}{\setlength{\ODw@Bid@Width}{\wd{\ODw@BidBox}}}{\setlength{\ODw@Bid@Width}{\wd{\ODw@BidBox}}}\ODw@CondNewLine\usebox{\ODw@BidBox}}{\egroup}{\end{center}}{}}}% showAll

Here we store the width of the diagram without the header and footer. So we can limit their width to the diagramwidth.
Define the diagram, showing the cards for the E–W hands.

\NewDocumentCommand{\showEW}{s t+ O{c} d(){%}{\showEW* + [pos] (E/W)}}

Display the EW diagram, defined by \easthand, etc
* Version: Display the diagram centered
+ Version: Also display a bidding diagram
pos: aligning, default c
E/W: only E-hand (or W-hand) is to be displayed
% For all suits put all cards of east and west together
\gdef\ODw@Spades{\ODw@ESpades\ODw@WSpades}%
\gdef\ODw@Hearts{\ODw@EHearts\ODw@WHearts}%
\gdef\ODw@Diamonds{\ODw@EDiamonds\ODw@WDiamonds}%
\gdef\ODw@Clubs{\ODw@EClubs\ODw@WClubs}%
\ODw@ChkSameCards{\ODw@Spades}\Sp%
\ODw@ChkSameCards{\ODw@Hearts}\He%
\ODw@ChkSameCards{\ODw@Diamonds}\Di%
\ODw@ChkSameCards{\ODw@Clubs}\Cl%
\IfBooleanTF#1{\begin{center}}{}%
\bgroup%
\setlength\tabcolsep{0em}%
\ODw@GameSize%
\ODw@TestIfEmpty{\ODw@HeaderText}{ODw@EmptyHeader}%
\ODw@TestIfEmpty{\ODw@FooterText}{ODw@EmptyFooter}%
\sbox0{%
\begin{tabular}[#3]{@{}r@{}c@{}l@{}}
% Display the W-hand only with token 'W', or no token at all
\IfNoValueTF{#4}{\ODw@Whand}{\ifthenelse{\equal{#4}{W}}{\ODw@Whand}{}% & \ODw@Compass &
% Display the E-hand only with token 'E', or no token at all
\IfNoValueTF{#4}{\ODw@Ehand}{\ifthenelse{\equal{#4}{E}}{\ODw@Ehand}{}} \\
\end{tabular}%
\ODw@gsetlength{\ODw@Diagram@Width}{\wd0}%
\begin{tabular}[#3]{@{}r@{}c@{}l@{}}
& & \\
% Display the W-hand only with token 'W', or no token at all
\IfNoValueTF{#4}{\ODw@Whand}{\ifthenelse{\equal{#4}{W}}{\ODw@Whand}{}% & \ODw@Compass &
% Display the E-hand only with token 'E', or no token at all
\IfNoValueTF{#4}{\ODw@Ehand}{\ifthenelse{\equal{#4}{E}}{\ODw@Ehand}{}} \\
\ODw@ProcessFooter{3} \% span 3 columns
& & \\
% Display the W-hand only with token 'W', or no token at all
\IfNoValueTF{#4}{\ODw@Whand}{\ifthenelse{\equal{#4}{W}}{\ODw@Whand}{}% & \ODw@Compass &
% Display the E-hand only with token 'E', or no token at all
\IfNoValueTF{#4}{\ODw@Ehand}{\ifthenelse{\equal{#4}{E}}{\ODw@Ehand}{}} \\
\ODw@ProcessFooter{3} \% span 3 columns
\end{tabular}%
\IfBooleanTF#2{%
\setlength{\ODw@Bid@Width}{\wd0}\ODw@CondNewLine%
\usebox{\ODw@BidBox}%
}}%
\egroup%
Define the diagram, showing the cards for the N–E hands.

\NewDocumentCommand\showNE{s t+ O{c}}{\
\showNE* +[pos]
1 2 3
}

Display the NE diagram, defined by \northhand, etc
* Version: Display the diagram centered
+ Version: Also display a bidding diagram
pos: aligning, default c

Description: similar to \showAll

\gdef\ODw@Spades\ODw@NSpades\ODw@ESpades\
\gdef\ODw@Hearts\ODw@NHearts\ODw@EHearts\
\gdef\ODw@Diamonds\ODw@NDiamonds\ODw@EDiamonds\
\gdef\ODw@Clubs\ODw@NClubs\ODw@EClubs\
\gdef\ODw@ChkSameCards\ODw@Spades\{\Sp\
\gdef\ODw@ChkSameCards\ODw@Hearts\{\He\
\gdef\ODw@ChkSameCards\ODw@Diamonds\{\Di\
\gdef\ODw@ChkSameCards\ODw@Clubs\{\Cl\
\IfBooleanTF#1{\begin{center}}{}\
\bgroup\
\setlength\tabcolsep{0em}\
\ODw@GameSize\
\ODw@TestIfEmpty{\ODw@HeaderText}{ODw@EmptyHeader}\
\ODw@TestIfEmpty{\ODw@FooterText}{ODw@EmptyFooter}\
% sbox1 necessary to calc. |Compasssize| for |Nhand|\
\sbox1{\ODw@Compass}\
\ODw@gsetlength{\ODw@Diagram@Width}{\wd0}\
\begin{tabular}{@{}c@{}l@{}}\
\ODw@Nhand & \ODw@RightUpperText\\
\usebox{1} & \ODw@Ehand\\
\end{tabular}\
\ODw@gsetlength{\ODw@Diagram@Width}{\wd0}\
\begin{tabular}{@{}c@{}l@{}}\
\ODw@Nhand & \ODw@RightUpperText\\
\usebox{1} & \ODw@Ehand\\
\end{tabular}\
}\egroup\%
Define the diagram, showing the cards for the N–W hands.

\NewDocumentCommand\showNW{s t+ O{c}}{\showNW* +[pos]
  1 2 3
Display the NW diagram, defined by \northhand, etc
* Version: Display the diagram centered
+ Version: Also display a bidding diagram
pos: aligning, default c
Description: similar to \showAll

% For all suits put all cards of north and west together
\gdef\ODw@Spades\ODw@NSpades\ODw@WSpades\%  
\gdef\ODw@Hearts\ODw@NHearts\ODw@WHearts\%  
\gdef\ODw@Diamonds\ODw@NDiamonds\ODw@WDiamonds\%  
\gdef\ODw@Clubs\ODw@NClubs\ODw@WClubs\%  
\ODw@ChkSameCards\Sp\%  
\ODw@ChkSameCards\He\%  
\ODw@ChkSameCards\Di\%  
\ODw@ChkSameCards\Cl\%  
\IfBooleanTF#1{\begin{center}}{}\n\bgroup\n% sbox1 necessary to calc. \Compasssize\ for \Nhand\n\sbox1\ODw@Compass\%  
\sbox0\%  
\begin{tabular}{#3}0\{c0\}10\}\%  
\ODw@LeftUpperText & \ODw@Nhand\%  
\ODw@Whand & \usebox{1}\\
6.2.9 The Compass

When displaying the compass, the square with N-S and E-W axes, we try to achieve several things:

1. Making the size font-size dependent
2. Put both N and S horizontally centered
3. Put both E and W vertically centered
4. Print the vulnerable side in red if in colored mode
5. Underline the dealer (we overline S for better clarity)

We use the mapping as shown in the tables below. The U stands for undefined. This reflects the situation where neither \vuln nor \dealer have been called, and also there is no board number known.

<table>
<thead>
<tr>
<th>Player</th>
<th>Vulner</th>
<th>Dealer</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>none</td>
<td>N</td>
</tr>
<tr>
<td>E</td>
<td>all</td>
<td>E</td>
</tr>
<tr>
<td>S</td>
<td>N-S</td>
<td>S</td>
</tr>
<tr>
<td>W</td>
<td>E-W</td>
<td>W</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>U</td>
</tr>
</tbody>
</table>
\newcommand{\ODw@Compass}{

The codes for dealership (\ODw@D) and vulnerability (\ODw@V) are used in \ODw@Print. We initialize them with the value -1 to denote the undefined state. \ODw acts as a local temp variable in order to make a smooth comparison.

\begingroup
\def\ODw@V{-1}\def\ODw@D{-1}
\% Set the code for vulnerability
\def\@ODw\{\none\}\ifx\ODw@Vulner\@ODw\def\ODw@V{0}\fi
\def\@ODw\{\none*\}\ifx\ODw@Vulner\@ODw\def\ODw@V{0}\fi
\def\@ODw\{\none!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{0}\fi
\def\@ODw\{\all\}\ifx\ODw@Vulner\@ODw\def\ODw@V{1}\fi
\def\@ODw\{\all*\}\ifx\ODw@Vulner\@ODw\def\ODw@V{1}\fi
\def\@ODw\{\all!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{1}\fi
\def\@ODw\{\all*!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{1}\fi
\def\@ODw\{\NorthSouth\}\ifx\ODw@Vulner\@ODw\def\ODw@V{2}\fi
\def\@ODw\{\NorthSouth*\}\ifx\ODw@Vulner\@ODw\def\ODw@V{2}\fi
\def\@ODw\{\NorthSouth!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{2}\fi
\def\@ODw\{\NorthSouth*!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{2}\fi
\def\@ODw\{\EastWest\}\ifx\ODw@Vulner\@ODw\def\ODw@V{3}\fi
\def\@ODw\{\EastWest*\}\ifx\ODw@Vulner\@ODw\def\ODw@V{3}\fi
\def\@ODw\{\EastWest!\}\ifx\ODw@Vulner\@ODw\def\ODw@V{3}\fi
\% Set the code for dealership
\def\@ODw\{\North\}\ifx\ODw@Dealer\@ODw\def\ODw@D{0}\fi
\def\@ODw\{\North*\}\ifx\ODw@Dealer\@ODw\def\ODw@D{0}\fi
\def\@ODw\{\North!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{0}\fi
\def\@ODw\{\North*!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{0}\fi
\def\@ODw\{\East\}\ifx\ODw@Dealer\@ODw\def\ODw@D{1}\fi
\def\@ODw\{\East*\}\ifx\ODw@Dealer\@ODw\def\ODw@D{1}\fi
\def\@ODw\{\East!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{1}\fi
\def\@ODw\{\East*!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{1}\fi
\def\@ODw\{\South\}\ifx\ODw@Dealer\@ODw\def\ODw@D{2}\fi
\def\@ODw\{\South*\}\ifx\ODw@Dealer\@ODw\def\ODw@D{2}\fi
\def\@ODw\{\South!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{2}\fi
\def\@ODw\{\South*!\}\ifx\ODw@Dealer\@ODw\def\ODw@D{2}\fi
\def\@ODw\{\West\}\ifx\ODw@Dealer\@ODw\def\ODw@D{3}\fi
\def\@ODw\{\West*\}\ifx\ODw@Dealer\@ODw\def\ODw@D{3}\fi
\endgroup
We use a picture environment and set its size to 2.5em × 2.5em by setting the \PicSize to 500 and the unitlength to 0.005em. Doing this enables us to avoid floating point arithmetic in the calculations of positions. Both \PicSize and \MidSize are local to \ODw@Compass and skipped from indexing. The same goes for \Hoffset and \Voffset.

\usepackage{picture}
\setlength{\unitlength}{0.005em * \real{\ODw@CompSize}}
\ODw@gsetlength{\ODw@Compasssize}{\unitlength * \PicSize + 2ex}
\def\Hoffset{30}
\def\Voffset{30}
\setlength{\ODw@Tmp@Width}{0.1em * \real{\ODw@Compasssize}}
\linethickness{\ODw@Tmp@Width}
\parbox[c]{\ODw@Compasssize}{\begin{picture}(\PicSize,\PicSize)
\ifODw@CompShow\% the frame
\moveto(0,0)
\else\% linethickness zero does not suppress the line
\lineto(0,\PicSize)\lineto(\PicSize,\PicSize)\lineto(\PicSize,0)\closepath\strokepath
\fi
\% the cardinal points
\put(\MidSize,\the\numexpr\PicSize - \Voffset)\makebox[0pt]{\ODw@Print{0}}% N
\put(\MidSize,\Voffset)\makebox[0pt]{\ODw@Print{2}}% S
\put(\Hoffset,\MidSize)\makebox[0pt][l]{\ifODw@CompTurn\%\raisebox{-0.5\height}{\rotatebox{90}{\ODw@Print{3}}}%
\else\%\raisebox{-0.5\height}{\ODw@Print{3}}%
\fi
\end{picture}}
\texttt{\ODw@Print}\texttt{(\texttt{(player-code)})}

\texttt{\ODw@Print} prints \texttt{N}, \texttt{E}, \texttt{S} and \texttt{W} in the compass. The side that is vulnerable is printed in red (or italics if we are monochrome), otherwise in black. The dealer is under- or overlined. The \texttt{\ifcase} distinguishes between the players. Then dealership and vulnerability are tested. \texttt{\ODw@PrintColor} is called to actually print the player.

\begin{verbatim}
\newcommand\ODw@Print[1]{% \ODw@Print{player-code} 1 (player-code=0-3) \bgroup \smaller\smaller% \ifcase#1% #1=0: print N \ifboolexpr{ test \{ifnumcomp\{\ODw@D\}{=}\{0\}\}}% {\% dealer = N \ifboolexpr{ test \{ifnumcomp\{\ODw@V\}{=}\{1\}\} or% test \{ifnumcomp\{\ODw@V\}{=}\{2\}\} }% {\ODw@PrintColor\{\underline\{\ODw@N*\}\} Vul }\% not Vul {\underline\{\ODw@N*\} }% not Vul % dealer < N \ifboolexpr{ test \{ifnumcomp\{\ODw@V\}{=}\{1\}\} or% 1093 \bgroup
1094 \smaller\smaller%
1095 \ifcase#1\ #1=0: print N
1096 \ifboolexpr{ test \{ifnumcomp\{\ODw@D\}{=}\{0\}\}}%
1097 {\% dealer = N
1098 \ifboolexpr{ test \{ifnumcomp\{\ODw@V\}{=}\{1\}\} or%
1099 test \{ifnumcomp\{\ODw@V\}{=}\{2\}\} }%
1100 {\ODw@PrintColor\{\underline\{\ODw@N*\}\} Vul
1101 {\underline\{\ODw@N*\} }% not Vul
1102 {\% dealer < N
1103 \ifboolexpr{ test \{ifnumcomp\{\ODw@V\}{=}\{1\}\} or%
\begin{verbatim}
test {\ifnumcomp{\ODw@V}{=}{2}} \%
{\ODw@PrintColor{\ODw@N*}}% Vul
{\ODw@N*}% not Vul
\%
\or% #1=1: print E
{\ifboolexpr{ test {\ifnumcomp{\ODw@D}{=}{1}}}% 
{% dealer E
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{3}}} %
 {\ODw@PrintColor{\underline{\ODw@E*}}}% Vul
 {\underline{\ODw@E*}}% not Vul
 }{% dealer <> E
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{3}}} %
 {\ODw@PrintColor{\ODw@E*}}% Vul
 {\ODw@E*}% not Vul
 }%}
\or% #1=2: print S
{\ifboolexpr{ test {\ifnumcomp{\ODw@D}{=}{2}}}% 
{% dealer S
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{2}}} %
 {\ODw@PrintColor{%
 \ensuremath{\overline{\mbox{\ODw@S*}}}}% Vul
 {\ensuremath{\overline{\mbox{\ODw@S*}}}}% not Vul
 }{% dealer <> S
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{2}}} %
 {\ODw@PrintColor{\ODw@S*}}% Vul
 {\ODw@S*}% not Vul
 }%}
\or% #1=3: print W
{\ifboolexpr{ test {\ifnumcomp{\ODw@D}{=}{3}}}% 
{% dealer W
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{3}}} %
 {\ODw@PrintColor{\underline{\ODw@W*}}}% Vul
 {\underline{\ODw@W*}}% not Vul
 }{% dealer <> W
 {\ifboolexpr{ test {\ifnumcomp{\ODw@V}{=}{1}} or
 test {\ifnumcomp{\ODw@V}{=}{3}}} %
 {\ODw@PrintColor{\ODw@W*}}% Vul
\end{verbatim}
\newcommand\ODw@PrintColor[1]{% 
  \ifODw@monochrome\textit{#1}\else\textcolor{red}{#1}\fi% 
} % ODw@PrintColor

\ODw@mid Hook to write something in the middle of the compass. We write what is stored in \ODw@CompMid a bit smaller than the N-S and E-W letters. \ODw@mid writes the contents of \ODw@CompMid in the middle of the compass. As there is only very limited room, this text should be very short. It is primarily meant to write just a board number in the compass.

\ODw@CompMid
\def\ODw@CompMid{}
\def\ODw@mid{{\smaller\smaller\smaller\ODw@CompMid}}

\ODw@Box Displays a \[
\newcommand{\ODw@Box}{% 
  \bgroup 
  \setlength{\fboxsep}{0pt} \setlength{\fboxrule}{0.1em} \fbox{\rule{0mm}{0.7em}\rule{0.7em}{0mm}} 
  \egroup 
} % ODw@Box

6.2.10 Diagram Conditions

Here we implement several macros that add some board information to the card diagram. \ODw@BoardText serves as a variable to store the user-defined or (by means of the board number) auto-generated text, concerning the board. The macro \boardnr has 1 mandatory argument. If it is a number, it is considered to be the board number. The dealer and which side is vulnerable is then calculated from it and stored by calling \dealer resp. \vulner. If it is not a positive integer, it is...
considered user-defined text which is stored 'as is' in \ODw@BoardText. The contents can be retrieved by the user by calling \boardtext to actually print the board information.

\ODw@BoardText

1164 \def\ODw@BoardText{}

\boardtext

\boardtext has only 1 token and no arguments. The unstarred form outputs only the text stored in \ODw@BoardText, this is normally a board number. \boardtext* outputs something like 'Board: 23'.

1165 \NewDocumentCommand\boardtext{s}{%\IfBooleanTF#1{%\GetTranslation{Board-(ODw)}: \\ODw@BoardText}%\{\ODw@BoardText}%}% boardtext

\boardnr

\boardnr{Nr} sets the dealership and vulnerability according to Nr. As the system repeats itself after the 16th board, we canonize Nr to the range of 1–16. We also set \ODw@BoardText accordingly. For the association between boardnumber and dealer/vulner, see file Compass of the onedown-example collection.

1169 \newcommand{\boardnr}[1]{%\IfInteger{#1}{%\gdef\ODw@BoardText{%\bgroup\ODw@OtherFont\%\GetTranslation{Board-(ODw)} #1\%\#1\%\egroup%\setcounter{ODw@Cnt}{#1}%\wiledo{\theODw@Cnt > 16}{%\addtocounter{ODw@Cnt}{-16}\wiledo, now 1 <= Cnt <= 16\IfEqCase{\theODw@Cnt}{% set dealer/vulner\0{\gdef\ODw@BoardText{}\vulner[-1]\dealer[-1]}\1{\vulner[\none]\dealer[\North*!]}\2{\vulner[\NorthSouth*!]\dealer[\East*!]}\3{\vulner[\EastWest*!]\dealer[\South*!]}}}}}}

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The next macros are used to add some game information above resp. below the card diagram. \texttt{\ODw@HeaderText} and \texttt{\ODw@FooterText} are used as variables to store the user-defined text.

\begin{verbatim}
\newcommand\headlinetext[1]{\gdef\ODw@HeaderText{#1}}
\headlinetext{}
\end{verbatim}

\begin{verbatim}
\newcommand\footlinetext[1]{\gdef\ODw@FooterText{#1}}
\footlinetext{}
\end{verbatim}

The next macros are used to add some game information in the corners of the card diagram. We use a \texttt{tabular} with 1 column and 3 lines to do so.

We redefine the (originally empty) \texttt{Left[Upper/Lower]- and Right[Upper/Lower]Text}, and set it to the wanted value. The first (optional) parameter defines some horizontal extra space if the hand and a condition text collide. The commands have 3 mandatory arguments, each for 1 of the 3 condition lines, which may be empty.

\begin{verbatim}
\newcommand\leftupper[1]{\leftupper[\texttt{\emph{h-offset}}]}{\texttt{\emph{line1}}}{\texttt{\emph{line2}}}{\texttt{\emph{line3}}}
\leftupper{}
\end{verbatim}
\leftupper
\leftlower
\rightupper
\rightlower
\texttt{\textbackslash ODw@ProcessHeader\{\textbackslash N\}\}}

\texttt{\textbackslash ODw@ProcessHeader\{N\}} puts \texttt{HeaderText} in a multicolumn which spans \texttt{N} columns.

1236 \texttt{\textbackslash newcommand\{\textbackslash ODw@ProcessHeader\}\{1\}\}}\%

Programmers note:
\texttt{\textbackslash ODw@TestIfEmpty} cannot be called in here. The \texttt{\ifthenelse} called within the tabular environment leads to the error:

![Misplaced \omit. \multispan -> \omit \@multispan]

So the test of the emptiness of \texttt{Header-} and \texttt{FooterText} is done out of the tabular. Why is (La)TeX always causing unexpected problems?:-(
We set the headline/footline text to the width of the diagram with a solution found at:

\url{https://tex.stackexchange.com/questions/125005/how-to-create-a-table-where-one-cell-spans-all-the-columns-and-the-text-wraps-pr}

1237 \texttt{\ifODw@EmptyHeader% Must be this way (StackExchange)}

1238 \texttt{\textbackslash else% \ifthenelse| bites \textbar \textbackslash multicolumn|!!}

1239 \texttt{\textbackslash multicolumn\{#1\}\%}

1240 \texttt{p\{\dimexpr\textbackslash ODw@Diagram@Width\-%}

1241 \texttt{2\textbackslash tabcolsep-2\textbackslash arrayrulewidth\%}

1242 \texttt{\}{\textbackslash ODw@LegendFont\textbackslash ODw@HeaderText}}\%

1243 \texttt{\textbar i\%

1244 \}}\% \textbackslash ODw@ProcessHeader

\texttt{\textbackslash ODw@TestIfEmpty\{\textbackslash Str\}\{\textbackslash Bool\}\}}

Tests the emptiness of a string.

1245 \texttt{\textbackslash newcommand\{\textbackslash ODw@TestIfEmpty\}\{2\}\}}\%

\texttt{\textbackslash ODw@TestIfEmpty\{Str\}\{Bool\}}

sets boolean \texttt{Bool} to true if string \texttt{Str} is empty

1246 \texttt{\ifthenelse\{\equal\{#1\}\}{}\%

1247 \texttt{\setboolean\{#2\}\{true\}\}{}\%

1248 \texttt{\setboolean\{#2\}\{false\}%

1249 \}}\%

1250 \}}\% \textbackslash ODw@TestIfEmpty

\texttt{\textbackslash ODw@ProcessFooter\{\textbackslash N\}\}}

\texttt{\textbackslash ODw@ProcessFooter\{N\}} puts \texttt{FooterText} in a multicolumn which spans \texttt{N} columns.

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\newcommand{\ODw@ProcessFooter}[1][]{% 
\ifODw@EmptyFooter% Must be this way (StackExchange) \else% \multicolumn{#1}{% 
p{\dimexpr\ODw@Diagram@Width\% \-2\tabcolsep\-2\arrayrulewidth\%} {{\ODw@LegendFont\ODw@FooterText}}\\% \fi% }% ODw@ProcessFooter

\handskip\handskip{⟨length⟩} adds ⟨length⟩ to SkipWidth, i.e. the distance between the card diagram (with or without the east hand) and the bidding diagram.
\newcommand{\ODw@Skipwidth}[1][]{% 
def{\ODw@Skipwidth}{1em + #1}% recalculate the new Skipwidth \setlength{\ODw@Skip@Width}{\ODw@Skipwidth}%
}% handskip

\ODw@DealerText
Typesets the string Dealer.
\def{\ODw@DealerText}{% 
\bgroup% \ODw@OtherFont\GetTranslation{Dealer-(ODw)}\egroup% }% ODw@DealerText

\ODw@VulnerText
Typesets the string vulnerable or Vul.
\NewDocumentCommand{\ODw@VulnerText}{s t!}{% 
\bgroup% \ODw@OtherFont% \IfBooleanTF#1{% \IfBooleanTF#2{\GetTranslation{Vul-(ODw)}}% {\GetTranslation{Vulnerable-(ODw)}}}% \}% \IfBooleanTF#2{\GetTranslation{vul-(ODw)}}% {\GetTranslation{vulnerable-(ODw)}}}% \}% \egroup% }% ODw@VulnerText
Typesets the text to be put as 'title' in the award part of an expert quiz.
\def\ODw@AwardText{\textsf{\GetTranslation{Award-(ODw)}}}

If \#1 = empty then set \ODw@Dealer to \#1 else output \ODw@Dealer
\newcommand\dealer[1]{\ifthenelse{\equal{#1}{}}{\ODw@Dealer}{\gdef\ODw@Dealer{#1}}} dealer

set North as default
\def\ODw@Dealer{\North*}

If \#1 = empty then set \ODw@Vulner to \#1 else output \ODw@Vulner
\newcommand\vulner[1]{\ifODw@LongCalls\ODw@VulnerText*\else\ODw@VulnerText*!\fi:\,#1} vulner

set north–south as default
\def\ODw@Vulner{\NorthSouth}

\newcommand\dealertext[1]{\ODw@Dealortext:,#1} dealertext

\newcommand\vulnertext[1]{\ODw@VulnerText:,#1} vulnertext

\newcommand{\alert}{\ensuremath{^{\textbf{\textasteriskcentered}}}} alert
\newcommand{\announce}{{}\textbf{\smaller A}}

\newcommand{\markit}{
Sets markers a, b etc. To be used only in bidding diagrams.
\stepcounter{ODw@Nr}
\footnotemark[\theODw@Nr]
}

\newcommand{\explainit}[1]{
Explains the marked items. To be used only in bidding diagrams. The counter ODw@Nr associates the marker with the explanation.
\stepcounter{ODw@Nr}
\ensuremath{{}^{\text{\smaller\alph{ODw@Nr}}}#1}
}

6.3 The Bidding Environments

6.3.1 Special Columntypes

In order to automatically apply a macro call on all cell contents of a column (translate/convert; step a counter) in bidding and play diagrams, we define newcolumntypes, made possible by loading package collectcell. We define next columntypes:

B: Transfers suits and cards (bidding and play)
F: sets First column in play diagrams
P: Transfers suits and cards, accumulates won tricks (play)

\newcolumntype{B}{{}\collectcell\ODw@BTfer}{c<\endcollectcell}
\newcolumntype{F}{{}\collectcell\ODw@FTfer}{c<\endcollectcell}
\newcolumntype{P}{{}\collectcell\ODw@PTfer}{c<\endcollectcell}
6.3.2 The Hidden Implementation

As explained before, in the bidding diagrams we convert $S$ to the spade symbol ♠, etc. We do need packages \texttt{array} and \texttt{collectcell} for this and define the column type \texttt{B}. In order to avoid these conversions in the top row, where names are displayed, we use the \texttt{\cci} trick to suppress expansion of the cell macro. Curiously the command \texttt{\cci} (from \texttt{collectcell}, v0.5, 2011/02/27) sometimes produces unwanted characters. The reason is unknown to me. We use a space (" ") as first character in \texttt{\cci} to avoid this.

We store the bidding diagram without the explanations in a box, so we can calculate the width of the bidding diagram and make our explanation part exactly as wide. In the first row we write the bidders: North etc. (or \texttt{N}, if it has to be short). In the second row we write the real world names of the bidders, if given. If any description is given, we make a multicolumn over the 4 rows with the previously stored width to write the explanations. We also use this width to calculate whether the bidding diagram will fit on the actual line. If not, we put it on a new line.

\begin{verbatim}
\newenvironment{ODw@Bidding}[2][t]{% 
    \setlength{\tabcolsep}{0.2em}% 
    \begin{tabular}{#1}{BBBB}% 1st column 
    \ifODw@Bidders% 
    \cci{ % there MUST be a ' ' (space) 
        \ODw@BidderFont% 
        \ifODw@short\ODw@BidderI% 
        \else\ODw@BidderI*% 
    \fi% 
    } &% 2nd column 
    \cci{ % there MUST be a ' ' (space) 
        \ODw@BidderFont% 
        \ifODw@short\ODw@BidderII% 
        \else\ODw@BidderII*% 
    \fi% 
    } &% 3rd column 
    \cci{ % there MUST be a ' ' (space) 
        \ODw@BidderFont% 
        \ifODw@short\ODw@BidderIII% 
        \else\ODw@BidderIII*% 
    \fi% 
    } &% 4th column 
    }{% 
    }%
\end{verbatim}

\newcommand{\ODw@BidderFont}{\textit}{\ODw@BidderI}{\textsf}{\ODw@BidderII}{\textsf}{\ODw@BidderIII}{\textsf}
\begin{tabular}{BBBB}
\ifODw@BidLine\hline\fi
\cci{ \ODw@NameFont\ODw@NameI} & \cci{ \ODw@NameFont\ODw@NameII} & \cci{ \ODw@NameFont\ODw@NameIII} & \cci{ \ODw@NameFont\ODw@NameIV} \\
\fi
\ifODw@BidLine\hline\fi
\end{tabular}
\setcounter{ODw@Nr}{0}
\setlength{\ODw@Bid@Width}{\wd0}
\global\sbox\ODw@BidBox{\begin{tabular}{BBBB}
\ifODw@Bidders%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderI%
\else\ODw@BidderI*%
\fi%
\else\ODw@BidderII*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderII%
\else\ODw@BidderII*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIII%
\else\ODw@BidderIII*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\fi%
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont%
\ifODw@short\ODw@BidderIV%
\else\ODw@BidderIV*%
\begin{tabular}{BBBb}
\text{\textsf{\textbackslash ODw\textbackslash BidBox}}
\end{tabular}

\begin{description}
\item[\textsf{\textbackslash ODw\textbackslash Biddingpair}] \textbackslash ODw\textbackslash Biddingpair\{\textit{pos}\}\{\langle description\rangle\}\ldots\textbackslash end\textbackslash ODw\textbackslash Biddingpair
\end{description}

Description: Similar to $\textbackslash ODw\textbackslash Bidding$

\begin{verbatim}
\NewEnviron{\textbackslash ODw\textbackslash Biddingpair}[2][t]{%  \\
  \def\xspace{}%  \\
  \setlength{\tabcolsep}{0.2em}  \\
  \begin{tabular}[#1]{BB}% 1st column  \\
  \if\ODw@Bidders%  \\
  \cci{ % there MUST be a ',' (space)  \\
  \textbackslash ODw\textbackslash BidderFont%  \\
  \if\ODw@short\textbackslash ODw\textbackslash BidderIV%  \\
  \else\textbackslash ODw\textbackslash BidderIV*%  \\
  \fi%  \\
  \fi%  \\
}\% end of 1st row
  \if\ODw@All@Names\empty%  \\
  \else% 2nd row
  \cci{ \textbackslash ODw\textbackslash NameFont\textbackslash ODw\textbackslash NameI} &% please  \\
  \cci{ \textbackslash ODw\textbackslash NameFont\textbackslash ODw\textbackslash NameII} &% mind  \\
  \cci{ \textbackslash ODw\textbackslash NameFont\textbackslash ODw\textbackslash NameIII} &% the  \\
  \cci{ \textbackslash ODw\textbackslash NameFont\textbackslash ODw\textbackslash NameIV} \% spaces!
  \fi%
  \if\ODw@BidLine\hline\fi%  \\
\fi%  \\
\BODY%
\end{tabular}
\end{verbatim}

...with the right width
\ODw@BidderFont\
\ifODw@short\ODw@BidderI\
  \else\ODw@BidderI*\
  \fi\
}\ &% 2nd column
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont\
\ifODw@short\ODw@BidderIII\
  \else\ODw@BidderIII*\
  \fi\
}\ \% end of 1st row
\if\ODw@All@Names\empty\else% 2nd row
  \cci{ \ODw@NameFont\ODw@NameI} &% please mind
  \cci{ \ODw@NameFont\ODw@NameIII} \ \% the spaces!
  \fi\
\fi\
\ifODw@BidLine\hline\fi\%}
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont\
\ifODw@short\ODw@BidderI\
  \else\ODw@BidderI*\
  \fi\
}\ &% 2nd column
\cci{ % there MUST be a ' ' (space)
\ODw@BidderFont\
\ifODw@short\ODw@BidderIII\
  \else\ODw@BidderIII*\
  \fi\
}\ \% end of 1st row
\if\ODw@All@Names\empty\else% 2nd row
  \cci{ \ODw@NameFont\ODw@NameI} &% please mind
  \cci{ \ODw@NameFont\ODw@NameIII} \ \% the spaces!
  \fi\%}
\end{tabular}%
\setcounter{ODw@Nr}{0}%
\setlength{\ODw@Bid@Width}{{\wd0}}% 
\global\sbox\ODw@BidBox{%
  \begin{tabular}{BB}% 1st column
  \ifODw@Bidders%
  \cci{ % there MUST be a ' ' (space)
  \ODw@BidderFont\
  \ifODw@short\ODw@BidderI\
    \else\ODw@BidderI*\
    \fi\
  \fi%
  \}
  \cci{ % there MUST be a ' ' (space)
  \ODw@BidderFont\
  \ifODw@short\ODw@BidderIII\
    \else\ODw@BidderIII*\
    \fi\
  }\ \% end of 1st row
  \if\ODw@All@Names\empty\else% 2nd row
    \cci{ \ODw@NameFont\ODw@NameI} &% please mind
    \cci{ \ODw@NameFont\ODw@NameIII} \ \% the spaces!
    \fi\%}
\end{tabular}%

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6.4 The User Environments

6.4.1 Bidding

The bidding environments have 2 optional arguments: an alignment \([⟨pos⟩]\) and an annotation \([⟨description⟩]\). There are also 3 tokens: the * centers the bidding diagram, the + forces the short notation, i.e. N rather than North and the - suppresses all output.

\(\texttt{\textbackslash ODw@GameSize}\) takes care of the font dependent sizing of the diagram. We locally redefine \texttt{\textbackslash footnotefont} and reset the (general) counter ODw@Nr, which is stepped in \texttt{\textbackslash markit} and \texttt{\textbackslash explainit} to make the annotations correspond. In the end code we define a multicolumn over all 4 (2) columns and write the annotation given in argument \#2. With p{\(\ldots\texttt{\textbackslash ODw@BidWidth}\ldots\)} care is taken to limit this text to the width of the diagram.

\begin{bidding}
\begin{tabular}{c}
\multicolumn{2}{p{\dimexpr\textwidth-2\tabcolsep}}{\setcounter{ODw@Nr}{0}\raggedright\smaller\smaller#2}
\end{tabular}
\end{bidding}

The 1st token (*) centers the environment; the 2nd token (t) switches
to the short notation in the table header; the 3rd token (-) suppresses
the output. Argument 4 regulates the alignment of the table (default
is c and the 5th argument contains the annotations of the bidding.

\begin{biddingpair}{\textit{pos}}\langle\textit{description}\rangle\ldots\end{biddingpair}

The same as with environment bidding, only with 2 columns instead
of 4.
6.4.2 Play

Environment \texttt{play} displays the sequence of playing tricks. It uses 2 \texttt{newcolumntype}s:

- \texttt{F} to increment and display the current row.
- \texttt{P} to translate and convert suits/ranks.

\texttt{\textbackslash ODw@AccTricks} calculates and shows the accumulated tricks in \texttt{play} that N-S and E-W has won. The winning card is detected automatically and \texttt{\textbackslash ODw@LastTrick} is called to process the winning trick for whichever side won it (N-S or E-W) by stepping the counter for the winning side. The counter \texttt{\textbackslash ODw@Player} denotes the player who won the trick. From the player who leads and the position that wins we calculate the winning player and step the counter for his side.

\begin{verbatim}
\def\ODw@AccTricks{\
\ODw@LastTrick{\ODw@Last}{\theODw@WinningNr}\
\ODw@append{\theODw@NSCnt,\theODw@EWCnt,}\
\setcounter{ODw@Highest}{0}\% reset for next trick
}\
\end{verbatim}

\texttt{\textbackslash ODw@Tricks} is automatically called in TableII for column 1. This column displays the player who had the lead. It essentially 1) resets the \texttt{\textbackslash ODw@PlayerNr} which will be stepped for each next column in search for the winning card 2) remembers in \texttt{\textbackslash ODw@Last} who had the lead. From these two values we can later calculate who won this trick. The stepping of \texttt{\textbackslash ODw@PlayerNr} occurs in \texttt{\textbackslash ODw@Tfer}.

\begin{verbatim}
\def\ODw@Tricks{\
\setcounter{ODw@PlayerNr}{0}\
\gdef\ODw@Last{\ODw@NextLead}\
\expandafter\GetTranslation\
\expandafter{\ODw@NextLead-(ODw)}:\,\
% write a colon and a thin space in the table,\n% as separator between lead player and lead card.
}\
\end{verbatim}

\texttt{\textbackslash ODw@LastTrick} is called by \texttt{\textbackslash ODw@AccTricks}. It computes who won the last trick and steps the corresponding counter.

\begin{verbatim}
\newcommand\ODw@LastTrick[2]{%\end{verbatim}
\begin{tabular}{cccc}
\hline
 & 1 & 2 & 3 & 4 \\
\hline
0 & W & N & E & S \\
1 & N & E & S & W \\
2 & E & S & W & N \\
3 & S & W & N & E \\
\hline
\end{tabular}

If we add this initial value to the seat where the trick is won, then the result gives us the player who won the trick. Suppose that e.g. $S$ had the lead, so $\ODw@Cnt = 3$. Suppose also that seat number 3 wins the trick. The sum equals 6 and this is the seat of $N$. For clarity these sums are displayed in the table as superscripts to the players.

First we set the counter $\ODw@Cnt$ to the player who has the lead and add the seat number ($\#2$) to it. We then store who has the next lead in $\ODw@NextLead$ and increment the counter of the winning side.

\begin{verbatim}
\IfEqCase{#1}{
\IfEqCase{#2}{
\IfEqCase{#3}{
\IfEqCase{#4}{
\IfEqCase{#5}{
\IfEqCase{#6}{
\IfEqCase{#7}{
\end{verbatim}

\begin{play}\*{⟨Lead⟩} \[⟨Trump⟩]\ldots\end{play}
Finally we define environment \texttt{play}. It consists primarily of these 3 tables, the middle one with the special newcolumntype \texttt{P}. We reset the counter for the running line (=trick) \texttt{ODw@Nr} and the winning trick counters for \texttt{N-S} and \texttt{E-W}: \texttt{ODw@NSCnt} and \texttt{ODw@EWCnt}. As usual \texttt{ODw@GameSize} takes care for the correct sizing. The first row (the title row) is displayed using the \texttt{cci} method. The 3th table gets a stacked \texttt{N/S} and \texttt{E/W} title.

\begin{alltt}
\NewDocumentEnvironment{play}{s mO{N}}{%
\% #1 --> s center
\% #2 --> m lead
\% #3 --> O trumpsuit (default NoTrump)
\def\ODw@TrumpSuit{#3}
\edef\ODw@NextLead{#2}%
\setcounter{ODw@Nr}{0}%
\setcounter{ODw@NSCnt}{0}
\setcounter{ODw@EWCnt}{0}%
\ODw@GameSize%
\ODw@Scratch{}% make empty
\let\ODw@Clubs\empty%
\let\ODw@Diamonds\empty%
\let\ODw@Hearts\empty%
\let\ODw@Spades\empty%
\%
\% We need some data which is calculated in TableII
\% to create TableI and TableIII. So we put TableII in a
\% box and display it later at due time
\%
\def\ODw@EXtra{0.9em}% white space in title
\%
\provideenvironment{TableII}{%
\begin{tabular}{b}\multicolumn{1}{c}{\GetTranslation{Lead!-(ODw)}} &%\cci{\GetTranslation{2nd-(ODw)}} &%\cci{\GetTranslation{3rd-(ODw)}} &%\cci{\GetTranslation{4th-(ODw)}} \\
\hline\multicolumn{4}{c}{}\%
\end{tabular}%
\begin{lrbox}{0}% save TableII for later
\begin{TableII}
\%
\end{lrbox}%
\begin{tabular}{b}\multicolumn{1}{c}{\GetTranslation{Lead!-(ODw)}} &%\cci{\GetTranslation{2nd-(ODw)}} &%\cci{\GetTranslation{3rd-(ODw)}} &%\cci{\GetTranslation{4th-(ODw)}} \%[0.3em]\hline%
\end{tabular}%
\end{lrbox}%
\%
\end{alltt}
We need TableI to show the running trick number. When constructing Table II, the total number of tricks that were actually displayed is available in counter \texttt{ODw@Nr}. So we just need to loop \texttt{\theODw@Nr} times and write the local counter value \texttt{\theODw@Cnt}. To avoid the extra line problem we use the solution from: https://tex.stackexchange.com/questions/50296/problem-with-using-loop-inside-the-tabular-environment/142562#142562

We use TableIII to show the winning trick counts. These are already stored in a CSV-list \texttt{\ODw@Scratch}, implemented as a token register. To process this list we use \texttt{\docsvlist} and must only define our \texttt{\do}. As this table has 2 columns, we check with \texttt{\ODw@Nr} that after an item is read, we put an \& and after the next item a \texttt{\}.
6.5 Card Diagrams with Bidding

\renewcommand*{\do}{1}{% 
\ifnumequal{value{ODw@Nr}}{2}{% \setcounter{ODw@Nr}{0}}{}% 
\stepcounter{ODw@Nr}% 
##1 
\ifnumequal{value{ODw@Nr}}{2}{}{&}% 
}{}
\begin{tabular}{|cc|}{TableIII 
\multicolumn{1}{|c|}{\cci{\scriptsize\shortstack{\North*!\\\South*!}}}} & \multicolumn{1}{c|}{\cci{\scriptsize\shortstack{\East*!\\\West*!}}}\\\hline 
\expandafter\docsvlist\expandafter{\the\ODw@Scratch} 
\end{tabular}
\IfBooleanTF#1{\end{center}}{}% play

\NewDocumentCommand\ODw@CondNewLine{O{0em}}{% \ODw@CondNewLine forces a newline if the bidding diagram does not fit on the line, taking into account the width of the card diagram and the width of the bidding diagram. Otherwise the bidding diagram appears to the right of the card diagram at distance \ODw@Skip@Width. We call the global macro \ODw@Diagram@Width that contains the width of the card diagram. The optional parameter of \ODw@CondNewLine is used to add some extra offset if needed.
{\ODw@GameFont}% needed to relate skips to the font-size \setlength{\ODw@Tmp@Len}{\ODw@Bid@Width}% \addtolength{\ODw@Tmp@Len}{\ODw@Diagram@Width}% \addtolength{\ODw@Tmp@Len}{#1}% \addtolength{\ODw@Tmp@Len}{\ODw@Skip@Width}% \ifthenelse{\lengthtest{\ODw@Tmp@Len > \textwidth}}{% \hspace{\ODw@Skip@Width}% }{% }% }\% \ODw@CondNewLine

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6.6 The Expert Quiz

The macro \expertquiz displays a hand, a bidding diagram and the award for the answers. Optionally a description can be added. The hand and the bidding have to be defined before. This is done to avoid having 4 more arguments, needed for specifying the hand. The token ‘*’ centers the whole and the token ‘!’ forces that the bidding diagram appears on a new line and that the hand shifts a bit to the right. The last parameter defines the award. In order to limit the width of the award we use the known widths of the bidding diagram and the hand and set the parbox accordingly to display the award.

\NewDocumentCommand\expertquiz{st! O{}m}{%}
\noindent% 12 3 4
\expertquiz* ![comment] {award}
1 2 3 4
6.7 Resetting the Game

We use `pgfkeys` with its \( \langle \text{key} \rangle = \langle \text{val} \rangle \) system to specify the fonts and other things that we want to have as defaults, rather than the initial `OneDown` values. Therefore we first define the keys and the store for it.

```
\pgfkeys{%
/ODw/.is family, /ODw,
% fonts
 bidder/.store in = \ODw@BidderDefault,
 compass/.store in = \ODw@CompassDefault,
 game/.store in = \ODw@GameDefault,
 legend/.store in = \ODw@LegendDefault,
 name/.store in = \ODw@NameDefault,
 other/.store in = \ODw@OtherDefault,
% compass
 compline/.store in = \ODw@CompLine,
 compmid/.store in = \ODw@CompMid,
 compsize/.store in = \ODw@CompSize,
}% compass
\ODw@set{compshow/.is choice}
\ODw@set{compshow/off/.code={\ODw@CompShowfalse}}
\ODw@set{compshow/on/.code={\ODw@CompShowtrue}}
\ODw@set{compturn/.is choice}
\ODw@set{compturn/off/.code={\ODw@CompTurnfalse}}
\ODw@set{compturn/on/.code={\ODw@CompTurntrue}}
% bidding
\ODw@set{bidders/.is choice}
\ODw@set{bidders/off/.code={\ODw@Biddersfalse}}
\ODw@set{bidders/on/.code={\ODw@Bidderstrue}}
\ODw@set{bidfirst/.is choice}
\ODw@set{bidfirst/N/.code={\ODw@FirstBidCol{N}}}
\ODw@set{bidfirst/E/.code={\ODw@FirstBidCol{E}}}
\ODw@set{bidfirst/S/.code={\ODw@FirstBidCol{S}}}
```
\ODw@set{bidfirst/W/.code=\ODw@FirstBidCol{W}}
\ODw@set{bidline/.is choice}
\ODw@set{bidline/off/.code=\ODw@BidLinefalse}
\ODw@set{bidline/on/.code=\ODw@BidLinetrue}
\ODw@set{bidlong/.is choice}
\ODw@set{bidlong/off/.code=\ODw@LongCallsfalse}
\ODw@set{bidlong/on/.code=\ODw@LongCallstrue}
% synonyms
\ODw@set{compshow/1/.code={\pgfkeys{/ODw/compshow=on}}}
\ODw@set{compshow/true/.code={\pgfkeys{/ODw/compshow=on}}}
\ODw@set{compturn/1/.code={\pgfkeys{/ODw/compturn=on}}}
\ODw@set{compturn/true/.code={\pgfkeys{/ODw/compturn=on}}}
\ODw@set{bidders/1/.code={\pgfkeys{/ODw/bidders=on}}}
\ODw@set{bidders/true/.code={\pgfkeys{/ODw/bidders=on}}}
\ODw@set{bidline/1/.code={\pgfkeys{/ODw/bidline=on}}}
\ODw@set{bidline/true/.code={\pgfkeys{/ODw/bidline=on}}}
\ODw@set{bidlong/1/.code={\pgfkeys{/ODw/bidlong=on}}}
\ODw@set{bidlong/true/.code={\pgfkeys{/ODw/bidlong=on}}}
% \resetfonts
\newcommand\resetfonts{\bidderfont{\ODw@BidderDefault} \compassfont{\ODw@CompassDefault} \gamefont{\ODw@GameDefault} \legendfont{\ODw@LegendDefault} \namefont{\ODw@NameDefault} \otherfont{\ODw@OtherDefault}}
\resetfonts
\setdefaults *{(key1=val1),(key2=val2),...}
here. For the fonts they are: \texttt{ bidder, compass, game, legend, name} and \texttt{other}. They store the new default value in the corresponding variable. In order to make the new default active, we must use \texttt{setdefaults*} which will also call \texttt{resetfonts}.

The keys for the compass are: \texttt{compline, compmid, compshow, compsize and compturn}. They control the thickness of the frame, the mid-text, the visibility of the compass, its size and the angle of the compass E–W letters.

For the bidding diagram we have: \texttt{bidders, bidfirst, bidline} and \texttt{bidlong}. They control if bidders are to be displayed at all, which bidder appears in the first column, draw a \texttt{\hline} below the header and showing long calls.

Furthermore defined elsewhere are the keys to control errors \texttt{err} and warnings \texttt{warn}, as well as the key to control the color e.g. of the symbols \texttt{colors}. Refer to section 3.1.3

\begin{verbatim}
\NewDocumentCommand\setdefaults{s m}{% \pgfkeys{/ODw,#2}% \IfBooleanTF{#1}{\resetfonts}{}% setdefaults
%}
\end{verbatim}

\texttt{\newgame} resets and clears the stored game information to be ready for a new game. We do not reset the option for warn- and err-messages, nor any selected font. Setting \texttt{\boardnr{0}} executes also: \texttt{\ODw@BoardText{}\vulner[-1]\dealer[-1]}.

\begin{verbatim}
\newcommand\newgame{% \boardnr{0}% \headlinetext{}% \footlinetext{}% % clear the left/right upper/lower stuff \gdef\ODw@LeftUpperText{}% \gdef\ODw@LeftLowerText{}% \gdef\ODw@RightUpperText{}% \gdef\ODw@RightLowerText{}% % clear the hands \gdef\ODw@Nhand{\ODw@hand{t}{}{}{}{}}% \gdef\ODw@Ehand{\ODw@hand{c}{}{}{}{}}% \gdef\ODw@Shand{\ODw@hand{b}{}{}{}{}}% \gdef\ODw@Whand{\ODw@hand{c}{}{}{}{}}% %}
\end{verbatim}

97
\% set default for real bidders names: no names
\% we print only the symbolic names North, East, etc.
\%
\namesNS{}{}\namesEW{}{}
\%
\% reset consistency check stuff
\%
\gdef\ODw@Spades{}
\gdef\ODw@Hearts{}
\gdef\ODw@Diamonds{}
\gdef\ODw@Clubs{}
\%
\gdef\ODw@NSpades\gdef\ODw@ESpades{}
\gdef\ODw@SHearts\gdef\ODw@WHearts{}
\gdef\ODw@NDiamonds\gdef\ODw@EDiamonds{}
\gdef\ODw@SClubs\gdef\ODw@WClubs{}
\%
\% newgame

6.8 Error Handling

6.8.1 Consistency Checks

We perform different checks on consistency of the cards entered:

1. Check that a hand not has more than 13 cards (E)
2. Check that a hand doesn’t contain multiple cards (E)
3. Check that a deal doesn’t contain multiple cards (E)
4. Check that a hand has less than 13 cards (W)
5. check that a suit of a deal has more than 13 cards (E)
6. check that a suit of a deal has less than 13 cards (W)
7. In play diagrams: check that a card is played only once (E)

The checks marked with (E) raise an error, those marked with (W) raise a warning. They can be controlled with the package options err and warn.

\ODw@ChkNrOfCards
\newcommand\ODw@ChkNrOfCards[2]{%
\ODw@ChkNrOfCards{cards}{hand}

1 2

#1 = a string with all cards of all suits of the hand denoted by #2
step 1: remove all "-" (that denotes an empty suit)
step 2: warn if StrLen < 13 ; Err if StrLen > 13

\StrDel{#1}{-}[\ODw@CardStr]\% remove voids
\StrLen{\ODw@CardStr}[\ODw@CardLen]%
\ifthenelse{\ODw@CardLen > 13}{% 
  \ODw@Error{#2 has \ODw@CardLen{} cards}%
}{%
  \ifthenelse{\ODw@CardLen < 13}{% 
    \ODw@Warning{#2 has \ODw@CardLen{} cards}%
  }{}%
}%
}% \ODw@ChkNrOfCards

\ODw@PrErr
\ODw@PrErr{⟨rank⟩}{⟨count⟩}{⟨suit⟩}

1796 \newcommand\ODw@PrErr[3]{%
\ODw@PrErr{⟨rank⟩}{⟨count⟩}{⟨suit⟩}

This macro only outputs the warning/error if the card specified by rank (#1) and suit (#3) does not occur (denoted by #2) exactly 1x. An exception for spotcards must not be made, because in \ODw@ChkSameCards they are not taken into account. (In fact they are already filtered out by \ODw@translate).

1797 \bgroup%
1798 \if#1T\def\ODw@T{10}\else\def\ODw@T{#1}\fi%
1799 \ifthenelse{#2 > 1}{% 
  \ODw@Error{Card #3, \ODw@T{} occurs #2 times}%
}{% 
  \ifthenelse{#2 = 0}{% 
    \ODw@Warning{Card #3, \ODw@T{} fails}}{% 
  }%
}%
\egroup%

\ODw@ChkSameCards
\ODw@ChkSameCards{⟨cards⟩}{⟨suit⟩}

1807 \newcommand\ODw@ChkSameCards[2]{%
#1 = a string with all cards of 1 suit (denoted by #2) of all hands
step 1: remove all "-"
step 2: we count the frequency of all ranks 2--9,T,J,Q,K,A (ODw@CCnt)

step 3: Warn if Freq(card) = 0 ; Err if Freq(card) > 1 (ODw@PrErr)

1808 \StrDel{#1}{-}\[ODw@CardStr]\%
1809 \StrCount{ODw@CardStr}{2}\[ODw@CCnt]\ODw@PrErr\{2\} \{ODw@CCnt\}\{#2\}%
1810 \StrCount{ODw@CardStr}{3}\[ODw@CCnt]\ODw@PrErr\{3\} \{ODw@CCnt\}\{#2\}%
1811 \StrCount{ODw@CardStr}{4}\[ODw@CCnt]\ODw@PrErr\{4\} \{ODw@CCnt\}\{#2\}%
1812 \StrCount{ODw@CardStr}{5}\[ODw@CCnt]\ODw@PrErr\{5\} \{ODw@CCnt\}\{#2\}%
1813 \StrCount{ODw@CardStr}{6}\[ODw@CCnt]\ODw@PrErr\{6\} \{ODw@CCnt\}\{#2\}%
1814 \StrCount{ODw@CardStr}{7}\[ODw@CCnt]\ODw@PrErr\{7\} \{ODw@CCnt\}\{#2\}%
1815 \StrCount{ODw@CardStr}{8}\[ODw@CCnt]\ODw@PrErr\{8\} \{ODw@CCnt\}\{#2\}%
1816 \StrCount{ODw@CardStr}{9}\[ODw@CCnt]\ODw@PrErr\{9\} \{ODw@CCnt\}\{#2\}%
1817 \StrCount{ODw@CardStr}{T}\[ODw@CCnt]\ODw@PrErr\{T\} \{ODw@CCnt\}\{#2\}%
1818 \StrCount{ODw@CardStr}{J}\[ODw@CCnt]\ODw@PrErr\{J\} \{ODw@CCnt\}\{#2\}%
1819 \StrCount{ODw@CardStr}{Q}\[ODw@CCnt]\ODw@PrErr\{Q\} \{ODw@CCnt\}\{#2\}%
1820 \StrCount{ODw@CardStr}{K}\[ODw@CCnt]\ODw@PrErr\{K\} \{ODw@CCnt\}\{#2\}%
1821 \StrCount{ODw@CardStr}{A}\[ODw@CCnt]\ODw@PrErr\{A\} \{ODw@CCnt\}\{#2\}%
1822 \} ODw@ChkSameCards

6.8.2 Controlling Messages

1823 \newbool{ODw@Warnings}
1824 \newbool{ODw@Errors}
1825 \%
1826 \ODw@set{warn/off/.code=\%
1827 \global\setbool{ODw@Warnings}{false}})
1828 \ODw@set{warn/on/.code=\%
1829 \global\setbool{ODw@Warnings}{true}})
1830 \ODw@set{err/off/.code=\%
1831 \global\setbool{ODw@Errors}{false}})
1832 \ODw@set{err/on/.code=\%
1833 \global\setbool{ODw@Errors}{true}})
1834 \ODw@set{warn=off}
1835 \ODw@set{err=on}
1836 \%
1837 \ProcessPgfOptions{/ODw}\% ODw@Error

1838 \newcommand\ODw@Error[1]{\%
1839 \ifbool{ODw@Errors}{\%
1840 \par\textcolor{red}{Error: #1}\par}\%
1841 }\% ODw@Error
6.9 Misc Bridge Terms

6.9.1 Honour Cards

These macros retrieve the translations of the 4 alternative forms of the honour cards from the \texttt{ODw}-dictionary of the active language.

```latex
\Ace
\ace

\NewDocumentCommand{\Ace}{s t!}{\bgroup\IfBooleanTF{#1}{\IfBooleanTF{#2}{\GetTranslation{A-(ODw)}}{\GetTranslation{Ace-(ODw)}}}{\IfBooleanTF{#2}{\GetTranslation{k-(ODw)}}{\GetTranslation{ace-(ODw)}}}}\egroup\xspace}

\def\ace{\Ace*!}
```

```latex
\King
\king

\NewDocumentCommand{\King}{s t!}{\bgroup\IfBooleanTF{#1}{\IfBooleanTF{#2}{\GetTranslation{K-(ODw)}}{\GetTranslation{King-(ODw)}}}{\IfBooleanTF{#2}{\GetTranslation{k-(ODw)}}{\GetTranslation{ace-(ODw)}}}}\egroup\xspace}

\def\king{\King*!}
```
1873 \{\GetTranslation{king-(ODw)}}\%
1874 \egroup%
1875 \xspace%
1876 }% King
1877 \def\king{\King*!}

\queen
1880 \NewDocumentCommand{\Queen}{s t!}{% 1881 \bgroup%
1882 %JW \ODw@GameFont%
1883 \IfBooleanTF{#1}{% 1884 \IfBooleanTF{#2}{% 1885 \GetTranslation{Q-(ODw)}}% 1886 \GetTranslation{Queen-(ODw)}}% 1887 }% 1888 \IfBooleanTF{#2}{% 1889 \GetTranslation{q-(ODw)}}% 1890 \GetTranslation{queen-(ODw)}}% 1891 }% 1892 \egroup%
1893 \xspace%
1894 }% Queen
1895 \def\queen{\Queen*!}

\jack
1897 \NewDocumentCommand{\Jack}{s t!}{% 1898 \bgroup%
1899 %JW \ODw@GameFont%
1900 \IfBooleanTF{#1}{% 1901 \IfBooleanTF{#2}{% 1902 \GetTranslation{J-(ODw)}}% 1903 \GetTranslation{Jack-(ODw)}}% 1904 }% 1905 \IfBooleanTF{#2}{% 1906 \GetTranslation{j-(ODw)}}% 1907 \GetTranslation{jack-(ODw)}}% 1908 }% 1909 \egroup%
1910 \xspace%
1911 }% Jack
1912 %
\def\jack{\Jack*!}

### 6.9.2 Vulnerability

These macros retrieve the translations of the 4 alternative forms of the commands `\All` and `\None` from the `\ODw`-dictionary of the active language. As there is no short form for them in the English language, we just code these entries in the `\ODw`-dictionaries with an exclamation mark '!'.

```latex
\All
\all
NewDocumentCommand{\All}{s t!}{% bgroup\ODw@OtherFont\IfBooleanTF{\m#1}{% \IfBooleanTF{\m#2}{% \GetTranslation{All!-(ODw)}}\GetTranslation{All-(ODw)}}% \IfBooleanTF{\m#2}{% \GetTranslation{all!-(ODw)}}\GetTranslation{all-(ODw)}}% \egroup\xspace}% All
\def\all{\All*}
```

\None
\none
NewDocumentCommand{\None}{s t!}{% bgroup\ODw@OtherFont\IfBooleanTF{\m#1}{% \IfBooleanTF{\m#2}{% \GetTranslation{None!-(ODw)}}\GetTranslation{None-(ODw)}}% \IfBooleanTF{\m#2}{% \GetTranslation{none!-(ODw)}}\GetTranslation{none-(ODw)}}% \egroup%}
```
6.9.3 Diagram Annotations

These macros retrieve the translations of the 4 alternative forms of the commands \Contract, \Lead, \Declarer, \Board and \Deal from the ODw-dictionary of the active language.

\Contract
\contract
\NewDocumentCommand{\Contract}{s t!}{% 
\bgroup% 
\ODw@OtherFont% 
\IfBooleanTF{#1}{% 
\IfBooleanTF{#2}{% 
{\GetTranslation{Contr-(ODw)}}% 
{\GetTranslation{Contract-(ODw)}}% 
}% 
{\GetTranslation{contr-(ODw)}}% 
{\GetTranslation{contract-(ODw)}}% 
}% 
\egroup% 
\xspace% 
}\Contract* 
\def\contract{\Contract*} 

\Lead
\lead
\NewDocumentCommand{\Lead}{s t!}{% 
\bgroup% 
\ODw@OtherFont% 
\IfBooleanTF{#1}{% 
\IfBooleanTF{#2}{% 
{\GetTranslation{Lead!-(ODw)}}% 
{\GetTranslation{Lead-(ODw)}}% 
}% else #1 
{\GetTranslation{lead!-(ODw)}}% 
}% 
\IfBooleanTF{#2}{% 
{\GetTranslation{lead-(ODw)}}% 
}% 
\egroup% 
\xspace% 
}\Lead* 
\def\lead{\Lead*} 

104
\begin{verbatim}
1977 \GetTranslation{lead-(ODw)}\%
1978 \#1
1979 \egroup\%
1980 \xspace\%
1981 \% Lead
1982 \%
1983 \def\lead{\Lead*}
1984 \%

\Declarer
\declarer

1985 \NewDocumentCommand{\Declarer}{s t!}{% 
1986 \bgroup%
1987 \ODw@OtherFont%
1988 \IfBooleanTF{#1}{%
1989 \IfBooleanTF{#2}{%
1990 \GetTranslation{Decl-(ODw)}%
1991 \GetTranslation{Declarer-(ODw)}%
1992 }{%
1993 \IfBooleanTF{#2}{%
1994 \GetTranslation{decl-(ODw)}%
1995 \GetTranslation{declarer-(ODw)}%
1996 }%
1997 \egroup%
1998 \xspace%
1999 \}% Declarer
2000 \%
2001 \def\declarer{\Declarer*}
2002 \%

\by

2003 \newcommand{\by}{% 
2004 \bgroup%
2005 \ODw@OtherFont%
2006 \GetTranslation{by-(ODw)}%
2007 \egroup%
2008 \xspace%
2009 \}% by

\Board
\board

2010 \NewDocumentCommand{\Board}{s t!}{% 
2011 \bgroup%
2012 \ODw@OtherFont%
2013 \IfBooleanTF{#1}{%
2014 \IfBooleanTF{#2}%
\end{verbatim}
}
\begin{Verbatim}
\NewDocumentCommand{\Deal}{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF{#1}{\GetTranslation{Deal!-(ODw)}}{\GetTranslation{Deal-(ODw)}}\egroup\xspace}
\NewDocumentCommand{\doubled}{s}{\bgroup\ODw@OtherFont\IfBooleanTF{#1}{\GetTranslation{Doubled-(ODw)}}{\GetTranslation{doubled-(ODw)}}\egroup\xspace}
\end{Verbatim}

The commands \texttt{\doubled} and \texttt{\redoubled} do not have a short form.
6.9.4 Point Units

These macros retrieve the translations of the commands \hpts, \lpts, \dpts and \tpts from the ODw-dictionary of the active language.

\hpts
\HCP
\def\HCP{\hpts*}

\lpts
\LP
\def\LP{\lpts*}

\dpts
\DLP
\def\DLP{\dpts*}

\tpts
\TLP
\def\TLP{\tpts*}
\def\LP{\lpts*!}
\def\HLP{\bgroup\ODw@OtherFont\GetTranslation{HLP-(ODw)}\egroup\xspace}
\def\DP{\dpts*!}
\def\TP{\tpts*!}

\NewDocumentCommand{\dpts}{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF{#1}{\IfBooleanTF{#2}{\GetTranslation{DP-(ODw)}}{\GetTranslation{distribution points-(ODw)}}}{\GetTranslation{dp-(ODw)}}}\egroup\xspace}

\NewDocumentCommand{\tpts}{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF{#1}{\IfBooleanTF{#2}{\GetTranslation{TP-(ODw)}}{\GetTranslation{Total Points-(ODw)}}}{\GetTranslation{tp-(ODw)}}}\egroup\xspace}
6.9.5 Forcings

These macros retrieve the translations of the commands \gforce, \sforce, \nmforce, \tsforce and \fsforce from the ODw-dictionary of the active language.

\gforce

\GF
2135 \NewDocumentCommand{\gforce}{s t!}{%  
2136 \bgroup%  
2137 ODw@OtherFont%  
2138 \IfBooleanTF{#1}{%  
2139 \IfBooleanTF{#2}{%  
2140 {\GetTranslation{GF-(ODw)}}%  
2141 {\GetTranslation{Game Forcing-(ODw)}}%  
2142 }%  
2143 \IfBooleanTF{#2}{%  
2144 {\GetTranslation{gf-(ODw)}}%  
2145 {\GetTranslation{game forcing-(ODw)}}%  
2146 }%  
2147 \egroup%  
2148 \xspace%  
2149 }% Game Forcing  
2150 %  
2151 \def\GF{\gforce*!}

\sforce

\SF
2152 \NewDocumentCommand{\sforce}{s t!}{%  
2153 \bgroup%  
2154 ODw@OtherFont%  
2155 \IfBooleanTF{#1}{%  
2156 \IfBooleanTF{#2}{%  
2157 {\GetTranslation{SF-(ODw)}}%  
2158 {\GetTranslation{Semi Forcing-(ODw)}}%  
2159 }%  
2160 \IfBooleanTF{#2}{%
\GetTranslation{semi foring-(ODw)}
%  \sforce
%  \egroup
%  \xspace
%  Semi Forcing
%  \def\SF{\sforce*!}

\def\nmforce{\nmforce*!}{

\NewDocumentCommand{\nmforce}{s t!}{
  \bgroup
  \ODw@OtherFont
  \IfBooleanTF{#1}{
    \IfBooleanTF{#2}{
      \GetTranslation{NMF-(ODw)}
      \GetTranslation{New Minor Forcing-(ODw)}
    }{
      \IfBooleanTF{#2}{
        \GetTranslation{nmf-(ODw)}
        \GetTranslation{new minor forcing-(ODw)}
      }{
        \GetTranslation{NMF-(ODw)}
        \GetTranslation{New Minor Forcing-(ODw)}
      }
    }
  }{
    \IfBooleanTF{#2}{
      \GetTranslation{nmf-(ODw)}
      \GetTranslation{new minor forcing-(ODw)}
    }{
      \GetTranslation{NMF-(ODw)}
      \GetTranslation{New Minor Forcing-(ODw)}
    }
  }
  \egroup
  \xspace
} % New Minor Forcing
\def\NMF{\nmforce*!}

\def\tsforce{\tsforce*!}{

\NewDocumentCommand{\tsforce}{s t!}{
  \bgroup
  \ODw@OtherFont
  \IfBooleanTF{#1}{
    \IfBooleanTF{#2}{
      \GetTranslation{TSF-(ODw)}
      \GetTranslation{Third Suit Forcing-(ODw)}
    }{
      \IfBooleanTF{#2}{
        \GetTranslation{tsf-(ODw)}
        \GetTranslation{third suit forcing-(ODw)}
      }{
        \GetTranslation{TSF-(ODw)}
        \GetTranslation{Third Suit Forcing-(ODw)}
      }
    }
  }{
    \IfBooleanTF{#2}{
      \GetTranslation{tsf-(ODw)}
      \GetTranslation{third suit forcing-(ODw)}
    }{
      \GetTranslation{TSF-(ODw)}
      \GetTranslation{Third Suit Forcing-(ODw)}
    }
  }
  \egroup
  \xspace
} % Third Suit Forcing
}
\newDocumentCommand{\fsforce}{s t!}{\bgroup\ODw@OtherFont\IfBooleanTF{#1}{\IfBooleanTF{#2}{\GetTranslation{FSF-(ODw)}}{\GetTranslation{Fourth Suit Forcing-(ODw)}}}{\IfBooleanTF{#2}{\GetTranslation{fsf-(ODw)}}{\GetTranslation{fourth suit forcing-(ODw)}}}}\egroup\xspace}

\def\FSF{\fsforce*!}

\section*{6.10 Initialization}

It’s time to prepare everything. We clear the game and set the defaults.

\newgame

Set the default fonts

\setdefaults{bidder=\mdseries\sffamily}
\setdefaults{compass=\mdseries\sffamily}
\setdefaults{game=\bfseries\sffamily}
\setdefaults{legend=\mdseries\rmfamily}
\setdefaults{name=\mdseries\slshape}
\setdefaults*[other=\bfseries\sffamily]

Set default coloring to black and red

\setdefaults{colors=b+r}

Set the compass

\setdefaults{compshow=on,compturn=off}

set the start column for bidding (West is recommended) and the long form.

\setdefaults{bidfirst=W,bidders=on,bidlong=on}
Now we load the dictionaries for the languages that are to be used in the document. We use \texttt{tracklang} to iterate over all the document languages and load the corresponding ODw-dictionaries. Due to an inconsistency between \texttt{babel} and \texttt{translations} with respect to the Norwegian language (\texttt{babel} calls this language \texttt{norsk} whereas \texttt{translations} insist on using \texttt{norwegian}, we redefine \texttt{thislang} to the latter if it happens to be \texttt{norsk}.

\begin{verbatim}
\AtBeginDocument{%
\ForEachTrackedLanguage{\thislang}{%\ifthenelse{\equal{\thislang}{norsk}}{%\def{thislang}{norwegian}}{%\IfFileExists{ODw-\thislang.trsl}{%\\LoadDictionaryFor{\thislang}{ODw}\%\PackageInfo{ODw}{Translation dictionary ODw-\thislang.trsl loaded}\%}{\\PackageWarning{ODw}{Translation dictionary ODw-\thislang.trsl not found}\%}}}}% ForEach\% AtBeginDocument
That's it folks, happy \TeX{}ing!
\end{verbatim}

7 References

[1] Kees van der Laan: \textit{Typsetting Bridge via \TeX}, TUGboat Vol. 11, No. 2 (1990), p265ff

[2] Richard Pavlicek: \textit{Bridge Writing Style Guide}, \url{http://www.rpbridge.net/7z69.htm}

8 Change History

v0.1 - Reorganized the bizr versioning. bizr will

General:
contain only onedown, the former bidplay stuff is archived. The ToDo and Known-Bugs lists are cleaned.
- We are version 0.1 now, trying to keep the bzr version number equal to the changes minor number. 

v0.2
General:
- We finally have a List of User Commands.
- In the compass we can print vulner in red and mark the dealer. We have a hook \CompassMid to write something in the middle of the compass.
- Added several macros to auto-translate common stuff like 'lead' etc.
- Added the danish language.
- Corrected a bug in \dealer and \vulner.
- Removed pgf-key 'lang': we now load the needed languages on the fly.
- Finally we revised the documentation. 

v0.3
play:
- In order to avoid empty columns in environment playtricks we reorganized it. Rather than just 1 table we use 3 tables. The middle one typesets the relevant tricks, stored in an lrbox, while generating on the fly a string with the winning tricks. Finally we put the running trick-number in TableI, we 'use' TableII and construct TableIII from the string with the winning tricks. 

v0.4
General:
- Major change in playtricks: the winner is now determined by the cards played, and code is added to check consistency.
- Dirty coded macros like \ODw@symbol and \ODw@Card(s) are replaced by neat expl3 code.
- We load necessary dictionaries automatically on the fly and enhanced the colors options.
- Corrected some minor bugs and reorganized the documentation.
- One can now also generate the documentation without the list of user commands.

v0.5
General:
- Associated the names and bidders in a fixed way.
- Added checks to onesuitNS/EW.
- Made ODw@OtherFont local where necessary.
- Redefined columntypes.
- Made 'T' a code for '10'.
- Adapted the translate macro to enable both 1H
and 1\textlhe etc.  
- Enhanced the 
documentation.       1

v0.6  
General:  
- Made all internal names 
hidden by adding 
'ODw@' to it.  
- Changed \ODw@AccTricksN in 
\ODw@AccTricks.  
- Some minor adaptions of 
the documentation 1

v0.6a  
General:  
- In order to test which 
suit (\Cl,...) was 
encountered in 
\ODw@translate (see page 
45) we must define the 
suits as a 
\texttt{renewrobustcommand}. So 
we define them first The 
idea was given on LaTeX 
StackExchange by egreg, 
see \url{https: 
//tex.stackexchange. 
com/questions/420257/ 
test-which-macro-is-
called-in-tabular/ 
420258#420258} 39

v0.7  
General:  
- Final(?) edits of the 
documentation:  
Consequent use of 'card 
diagram', 'bidding' 
diagram and 'play 
diagram'.  
- Corrected some minor 
bugs.  
- Changed the name of the 
'playtricks' environment 
into 'play'.  
- Can now disable all 
colors in the manual for 
monochrome printing.  
- Changed signature of 
\texttt{expertquiz} and 
\texttt{boardtext}. 1

v0.7a  
General:  
- Major change: Removed 
all \texttt{bidXX} and 
\texttt{bidXXpair} commands.  
- The biddings can now be 
shown with \texttt{showXX*} 
(with token '+').  
- The macros \texttt{hand-} and 
the bidding environments 
suppress their output with 
token '-' 1

v0.8  
General:  
- Added package 
\texttt{verbatimbox} to adjust 
verbatim font easily.  
- Added \texttt{setdefaults} 
with keys for fonts, 
compass and bidding 
diagrams.  
- Made \texttt{FirstBidCol} 
internally hidden.  
- Removed \texttt{longcalls}, 
\texttt{CompassMid}, added 
\texttt{compassfont}.  
- Changed the order of the 
hands in \texttt{onesuitAll}.  
- Renewed the 
implementation of the 
compass and added extra 
features. 1

v0.9  
General:  
- Adapted \texttt{ODwset} and 
\texttt{setdefaults}.  

114
- Separated key messages into keys warn and err.
- Adapted \ODw@Compass.
- Removed legends from \showNS.
- Added \sbox1 to all \showXX macros with a N-hand.
- Changed ODw@[No]Warnings and ODw@[No]Errors.
- Corrected some minor bugs and adapted the documentation accordingly.

v1.0

General:
- Adapted the urls, the directories and some filenames to conform to the CTAN-standard and made the bundle ready for upload.
- Corrected a small bug in \ODw@Compass that was introduced in v0.9.
- Made all relevant text-writing macros in 4 versions with/without tokens '*', and '!'.
- Corrected a sizing/font bug.
- Added 4 variants of many other text-writing macros, onesuit-NE/NW/.
- Adapted \handskip.
- Added code to work-around a babel-translations inconsistency w.r.t. norsk/norwegian.

v1.1

General:
- Corrected onedown-ref.tex
  - Added the missing rows in lines 419-422.
  - and the explanatory text on line 457.
- Changed in all ODw*.trsl files: The translation of 'pass' into 'p' and 'Pass' into 'P'.
- Corrected some typos in ShowAll.tex:
  - \contract* into \contract,
  - \declarer* into \declarer and \lead* into \lead.
- Removed some illegal chars from changes entries.

v1.2a

General:
- Enhanced the documentation (both onedown.dtx and onedown-ref.tex: The command tokens are no longer shown as ['*!''], but as '*!' with a different background color.
- Added a thin space ('\,') before all points counts (HCP, LP, DP and TP)
- Improved \alert by using \textasteriskcentered rather than just a '*':
- The changes history has a better layout now
- \showNS and \showEW now can selectively display only the N- or S-hand, resp the E- or W-hand.
v1.2b

General:
- Corrected a bug: Added \ODw@monochromefalse in all initializations of multi colors in \ODw@set
- Made all relevant setdefaults settings (like bidfirst) non-global
- Made all \ODw@BidderX and \ODw@NameX non-global
- Removed '\global' from \ODw@CompShow (false and true), \ODw@CompTurn, \ODw@Bidders, \ODw@BidLine and \ODw@LongCalls
- In command \suit
  changed 'JW \ODw@GameSize' into '\ODw@GameSize' ....... 1

v1.3

General:
- Added \HLP
- Changed/Added in all relevant ODw-lang.trsl:
  - FP into F and fp into f (entry HCP/hcp)
  - Figuren-Punkte into Figurenpunkte and figuren-punkte into figurenpunkte
  - FL into L and fl into l
  - \NewDictTranslation {HLP-\ODw}{FL} (e.g. for german) ............ 1
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