

# User's Guide

## For the Bermuda Playing Card Fonts

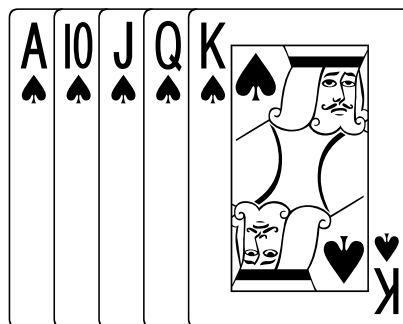
### Windows™ Version

♠ K Q 8 7 6 5  
 ♥ A J 4  
 ♦ K Q 7 2  
 ♣ —

|   |   |
|---|---|
| N | E |
| W | S |

♠ 9 3  
 ♥ 10 6 3 2  
 ♦ 10 4 3  
 ♣ J 10 8 7

♠ 2  
 ♥ K Q 9 8 7  
 ♦ A J 9  
 ♣ K 9 6 2

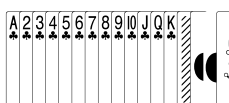
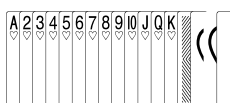
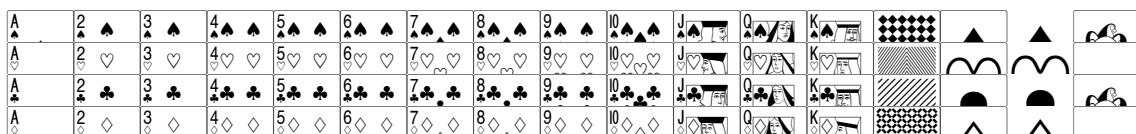
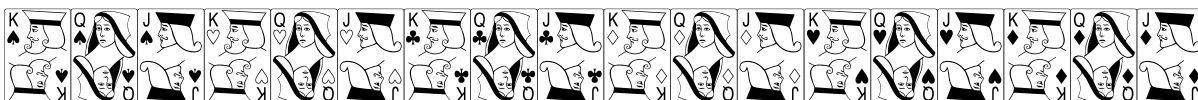
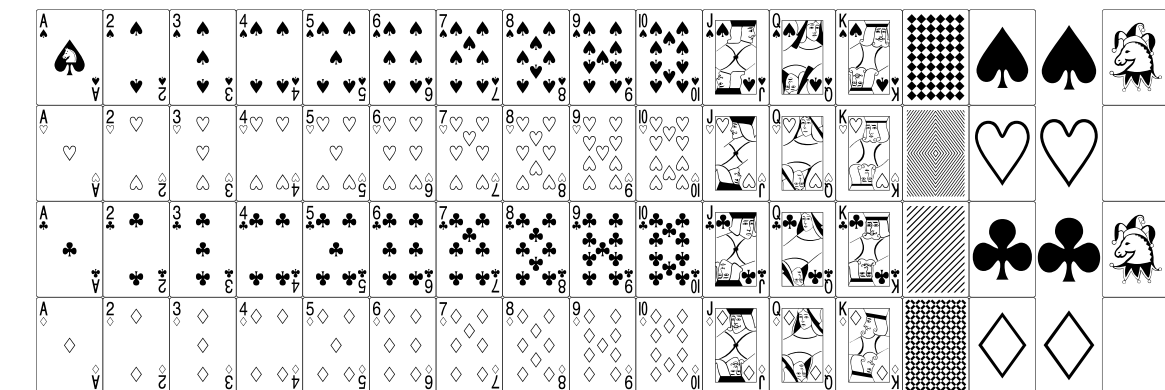


♠ A J 8 6 3  
 ♥ Q 10  
 ♦ A K 8 4  
 ♣ 4 3

|          |   |
|----------|---|
| Dummy    |   |
| W        | E |
| Declarer |   |

♠ Q 9 7 5 4  
 ♥ 9 7 2  
 ♦ J 5  
 ♣ 9 6 5

♠ none  
 ♥ K J 8 6 3  
 ♦ 9 7 3 2  
 ♣ A K Q 2



## License Agreement

This manual and the Bermuda fonts are protected by copyright law so reproduction or redistribution is strictly prohibited. A single use license is granted the purchaser of the fonts. The fonts may be installed on more than one machine, but only one copy of a given font may be in use at any time.

Please support future enhancements and updates of the fonts by refusing friend's and colleague's requests to "borrow" the fonts. Pirating is illegal and harms both the font designer and registered users. Thanks.

## Guarantee

These fonts have a 30 day money-back guarantee. If you are not satisfied for any reason, return the fonts and manual and your purchase price will be refunded.

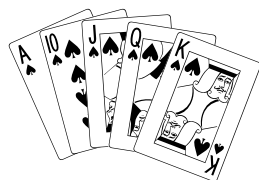
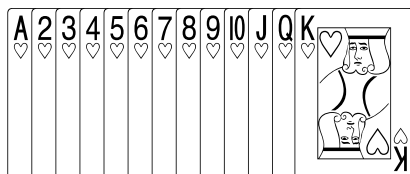
**Bermuda** fonts ©1996-2003  
by Alpine Electronics, Steve Smith  
Alpine Electronics  
703 Iverson Ave.  
Laramie, WY 82070

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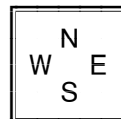
## Introduction

Welcome to the **Bermuda** playing card fonts! With these fonts you can use any Windows word processor or page layout program to create and print beautiful playing card and bridge diagrams.



♠ K Q 8 7 6 5  
♥ A J 4  
♦ K Q 7 2  
♣ —

♠ A J 10 4  
♥ 5  
♦ 8 6 5  
♣ A Q 5 4 3



♠ 9 3  
♥ 10 6 3 2  
♦ 10 4 3  
♣ J 10 8 7

♠ 2  
♥ K Q 9 8 7  
♦ A J 9  
♣ K 9 6 2

The **Bermuda** playing card fonts were created by Steve Smith, who has been designing commercial chess and game fonts for many years.

## What You Need

You will need an IBM PC compatible computer running the Windows 3.1 (or later) operating system and any Windows word processor or page layout program. Earlier versions of Windows do not support TrueType fonts. To use the PostScript™ version of the fonts you will need Adobe Type Manager (ATM).

## What is Included

The high density disk contains TrueType and PostScript versions of the playing card fonts shown below.

### Bermuda



### Bermuda Solid



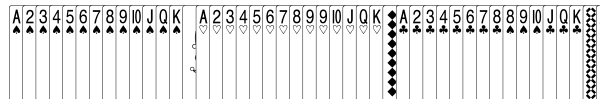
### Bermuda Alternate



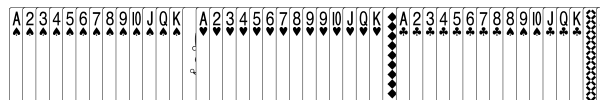
### Bermuda Alternate Solid



### Bermuda Left



### Bermuda Left Solid



### Bermuda Top



### Bermuda Top Solid



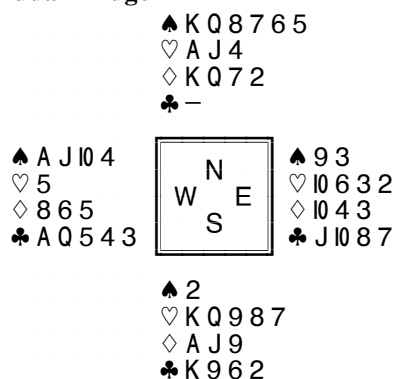
### Bermuda Top Left

A 2 3 4 5 6 7 8 9 10 J Q K A 2 3 4 5 6 7 8 9 10 J Q K A 2 3 4 5 6 7 8 8 9 10 J Q K S A

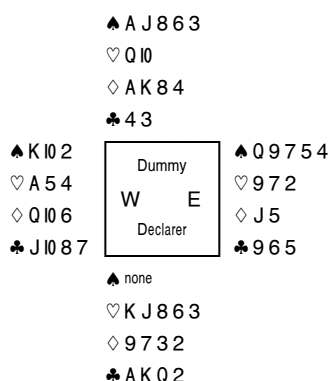
### Bermuda Top Left Solid

A 2 3 4 5 6 7 8 9 10 J Q K A 2 3 4 5 6 7 8 9 9 10 J Q K A 2 3 4 5 6 7 8 8 9 10 J Q K S A

### Bermuda Bridge



### Bermuda Bridge Alternate



After all the fonts are installed (see installation instructions below) use almost any word processor or the Windows 3.1 Accessory program Write to open and printout the test file called Bermuda.wri (included on the disk). Printouts at 600 dots per inch are included separately from this User's Guide. Note: the diagrams may not look as sharp on a 300 dpi or less printer.

All ten of the card fonts share the same keymap so it is easy to change from one style of diagram to another. See the keymaps on page 6-7.

## Installing the Bermuda Fonts

*The following is a summary of the procedure for installing the Bermuda fonts in your Windows 3.1 or Windows 95 system. For a more detailed description of TrueType™ font installation consult your Windows manual or help menu. For a more detailed description of PostScript™ font installation consult your Adobe Type Manager manual.*

**Important Note:** Install only the TrueType or the PostScript versions of the fonts. Having both the TrueType and PostScript versions of the same font on

a system will usually cause problems. Most people will want to use the TrueType fonts unless a) TrueType will not print all characters properly at the size you want or b) A commercial printing company has asked you to use PostScript fonts or c) You have Adobe Type Manager and you prefer PostScript.

### TrueType for Windows 3.1

1) Insert the **Bermuda** disk into the disk drive 2) Double click on the Main icon at the bottom of the Program Manager window 3) Double click on the Control Panel icon 4) Double click on the Fonts icon 5) Click on the Add button 6) Select the drive (usually drive a:) containing the Bermuda fonts 7) Select the Bermuda fonts you want to install 8) Click "OK" to install the selected fonts

### TrueType for Windows 95

1) Insert the **Bermuda** disk into the disk drive. 2) Click on the **Start** icon located at the lower left of the screen. 3) Move the selection arrow to **Settings**, then over to the **Control Panel** icon and click. 4) Double click on the **Fonts Folder** icon. 5) Move the selection arrow to the **File** menu located at the upper left of the window, then down to **Install New Font** and click. 6) Select the drive containing the **Bermuda** fonts by clicking on the triangle in the **Drive** box and then clicking on the **a:** drive (the floppy disk drive may be called the **b:** drive on some systems). 7) Select the **Bermuda** fonts you want to install by clicking on them in the **List of Fonts** box. To select more than one font hold down the shift key while clicking or select them all by clicking on the **Select All** button. 8) Click on the **OK** button to install the selected fonts.

*To install PostScript™ fonts in Windows you must have Adobe Type Manager (ATM) version 2.0 or higher. Expect to pay about \$40 for ATM.*




### PostScript for Windows 3.1 or Windows 95




1) Double click on the ATM Control Panel icon in the Program Manager window (If you are running Windows 95, the ATM icon may be in the Windows folder or the Control Panel folder.) 2) Click on the Add button 3) Scroll through the drive/directory list to find the drive containing the Bermuda fonts 4) Double click on the drive (usually drive a:) containing the Bermuda fonts 5) Select the Bermuda fonts you want to install 6) Click on the Add button 7) Click on the Exit button 8) Click on "Restart Windows" (If you are using version 2.5 or higher of ATM you won't need step 8)




## Some Examples




It is useful to learn the mnemonic for the **Bermuda** playing card fonts. To see the keyboard layout at a glance see page 7 for the keyboard map. The numbered

cards ace, two, three, ... , nine, ten use the keyboard numbers 1 2 3 . . . 9 0 as the root keys. The root keys for the face cards are j for jack, d for queen (or dame) and k for king.

The spades suit uses the root keys directly. So a five of spades  is 5 on the keyboard, a ten of spades  is 0 on the keyboard and a king of spades  is a k , etc.

The hearts suit uses the shifted versions or the root keys. So a four of hearts  is shift 4 or \$ , the seven of hearts  is shift 7 or & and the queen of hearts  is shift d or D , etc.

The clubs suit uses the keys to the lower right of the root keys. So a six of clubs  is y (which is to the lower right of 6 on the keyboard), a two of clubs  is a w (which is to the lower right of 2 on the keyboard) and a jack of clubs  is a m (which is to the lower right of j on the keyboard), etc.

The diamonds suit uses shifted version of the keys to the lower right of the root keys. So a six of diamonds  is Y (which is to the lower right of 6 on the keyboard), a two of diamonds  is W (which is to the lower right of 2 on the keyboard) and a jack of diamonds  is M (which is to the lower right of j on the keyboard), etc.

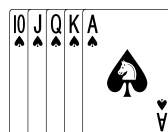
The joker is ?. There are several versions of card backs at x X v B. A blank card is b.

**IMPORTANT NOTE:** If you are using Windows 3.1, some of the cards may appear as empty rectangles on the computer monitor for font sizes of 24 points and larger, but they should print properly. You may want to create card diagrams at the 18 point size and then scale them up before printing. Windows 95 doesn't have this problem and can display all the card fonts at very large or very small sizes.

To create a simple full-card diagram of a royal flush in spades set the font to **Bermuda** set the point size to 48 (or smaller if you have display problems) and type 0jdk1 for the following diagram.



As a variation on this diagram set the size to 48 points (or some smaller size), select the font **Bermuda Left**, type 0jdk then set the font to **Bermuda** and type 1 for the following diagram.



For just the tops of the cards set the point size to 16, set the font to **Bermuda Top** and type 0jdk1 for the diagram at the top of the next column.



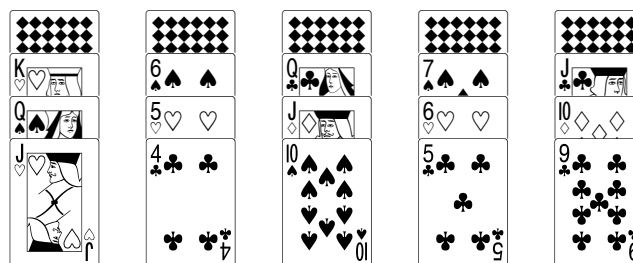
**Note:** For full cards to be of the same relative size as card tops, the card top font must be *one third the size* of the full card font. to create a variation of the top card font again set the font size to 16 points, select the **Bermuda Top Left** font and type 0jdk then select the **Bermuda Top** font and type 1 for the following diagram.



Another version of card diagrams combines the full cards with the tops of the cards. Set the font to **Bermuda Top**, set the point size to 16 and type

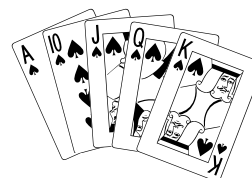
B B B B B  
K 6 c 7 m  
d % M ^ P

Then set the font to **Bermuda** and the size to 48 and type J r 0 t o for the following diagram.



If you have display problems, set the **Bermuda Top** size to 8 points and the **Bermuda** font to 24 points.

If you have a graphics program that can rotate text, it is possible to create diagrams like the one below. Basically you will need to create a single letter card for each text object, make the object opaque, then rotate and move the cards one by one to the proper locations. See your graphics program manual for for information.



## Bridge Diagrams

Shown on the next page are several versions of bridge diagrams. The text to the right of each diagram shows what must be typed to create the diagram. The O characters are spacers to align the diagram properly. The characters for spades, hearts, diamonds and clubs are s h d c respectively. See the **Bermuda Bridge** keymaps on page 6 for more information.

```

oooooooo094

oooooooohA863

ooooooooodQ094

oooooooooCAJ6
oooooooo_____
sK75o[oooooooo]s83
ooooo[oooNooo]
hK042[oooooooo]hQ975
ooooo[oWoooEo]
d85oo[oooooooo]dn
ooooo[oooSooo]
c9743[oooooooo]cK85
oooooooo-----
oooooooooSAQJ62

ooooooooohJ

ooooooooodKJ76

oooooooooC002

```

♠ 10 9 4  
 ♥ A 8 6 3  
 ♦ Q 10 9 4  
 ♣ A J 6

♠ K 7 5  
 ♥ K 10 4 2  
 ♦ 8 5  
 ♣ 9 7 4 3

♠ 8 3  
 ♥ Q 9 7 5  
 ♦ none  
 ♣ K 8 5

♠ A Q J 6 2  
 ♥ J  
 ♦ K J 7 6  
 ♣ Q 10 2

**Bermuda Bridge**

♠ K Q 8 7 6 5  
♥ A J 4  
♦ K Q 7 2  
♣ —

♠ A J 10 4  
♥ 7 5  
♦ 8 6 5  
♣ A Q 5 4

|   |   |   |
|---|---|---|
|   | N |   |
| W |   | E |
|   | S |   |

♠ 2  
♥ K Q 9 8  
♦ A J 9  
♣ K 9 6 2 3

```

oooooooooSKQ8765
ooooooooohAJ4
ooooooooodKQ72
oooooooooc=
oooooooo<ttttt>
sAJ04{oooNoo}s93
h75oo{woooE}h0632
d865o{woooe}d043
c1Q54{ooSoo}cJ087
ooooo,bbbbbb.
ooooooooo2
ooooooooohKQ98
ooooooooodAJ9
ooooooooocK9623

```

**Bermuda Bridge**

♠ K Q 8 7 6 5  
♥ A J  
♦ K Q 7 2  
♣ 3

♠ A J 10 4  
♥ 5 4  
♦ 8 6 5  
♣ A Q 5 4

W N E S

♠ 2  
♥ K Q 9 8 7  
♦ A J 9  
♣ K 9 6 2

```

oooooooooSKQ8765
ooooooooohAJ
ooooooooodKQ72
oooooooooc3
oooooooo<ttttt>
sAJ04<|ooOoo>s93
h540o<|oXPFo>h0632
d865o<|oYTGo>d043
c1Q54<|ooUoo>cJ087
oooooooo,bbbbbb.
ooooooooos2
ooooooooohKQ987
ooooooooodAJ9
ooooooooocK962

```

**Bermuda Bridge**

|          |   |         |          |         |
|----------|---|---------|----------|---------|
| Dummy    |   | <tttt>  |          | <-----> |
| W        | E | { oDumo | Dummy    | { oDumo |
|          |   | { oXoFo |          | { WoooE |
|          |   | { oYoGo | W        | E       |
|          |   | { oClRo |          | { woooe |
| Declarer |   | { bbbbb | Declarer | { oClRo |
|          |   |         |          | { ----- |

**Bermuda Bridge Alternate**

Dummy

W E

Declarer

Declarer

If you have any problems with the fonts, please send a note to Alpine Electronics and include a description of the problem, a printout illustrating the problem, a description of the computer, printer and software you are using and the serial number on your Bermuda disk. Help is available via email. The email address is:

alpine@partae.com

## Other Game Diagram Fonts

Alpine Electronics sells diagram font families for many other games. The **Linares**, **Hastings** and **Zürich** chess font families are \$49 each, two for \$79 or all three for \$99 postpaid including a 14 page User's Guide. Other game font families include **Beijing** (XiangQi or Chinese chess), **Canton** (Mah Jong), **Copenhagen** (Othello), **Edinburgh** (checkers), **Las Vegas** (dice and dominoes), **Magalasy** (Fanorona), **Monte Carlo** (backgammon), **Tendo** (shogi or Japanese chess) and **Tokyo** (go). Each of these font families sells for \$49 postpaid which includes a User's Guide (or \$129 for any three font families). Be sure to specify Windows or Macintosh.

## Linares, Hastings and Zürich (chess)



Here are samples of  
the figurine fonts.

♖e7 6. d4 O-O  
 7. ♗d3 ♜d7 8.  
 O-O h6? [8. ...  
 ♜g6 9. ♖e4 ♜f6  
 10. ♜d6 ♔d6 11.  
 c4 ♗g4=



12. ... ♖e7 [12.  
... ♜f4? 13. g3  
♜g5 14. ♜fg5 hg5  
15. 15. ♙h5±; 13.  
... f5 14. ♜c3 ♜g5  
15. h4 ♜e7 16.  
♜d5±] 13. ♜c2!  
♜e8

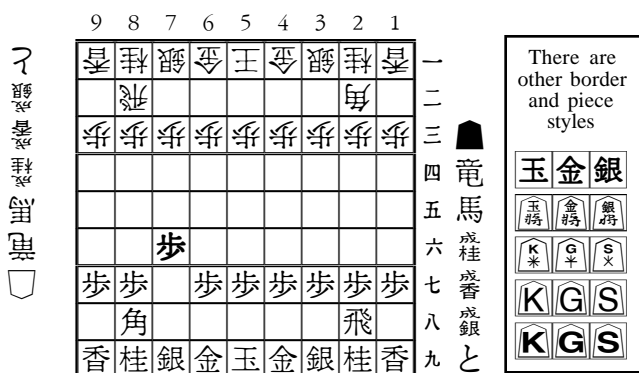


17. ... ♖f5 [17. ...  
 ♜f7 18. ♜e5 ♜g8  
 19. ♜h7 ♜h7 20.  
 ♜b3+; 17. ...  
 ♜d5 18. ♜b3 ♜f7  
 19. ♜f7 ♜f7 20.  
 ♜c4 ♜g6 21. ♜g8  
 ♜f6 22. ♜h4 ♜h4

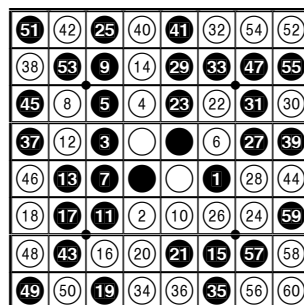
± ∓ ± ∓ + - - + = ∞ ∞ ∞ ↻ ○ → ↑ ⇔ ⊙ # !!! ?  
?? !? ?! △ □ ▽ ↔ ↗ » « × ⊥ ☐ ☑ ■ ▤ ⊕ ∞  
○ ● ♂ ♀ > L J || — ≡ ≥ ≤ ↑↑ ■ ■ □ □ ▢ ½  
⚡ ⚡ ⚡ ≈ ⌚ ⌚ 📧 ✉️ 🏰 ✂️ 🔪 🏠 🏠 🏠 ➡ ➡ ➡

Fonts on this page are \$49 with User's Guide or \$129 for three. Send postcard to request complete printouts.

## Tendo (shogi or Japanese chess)

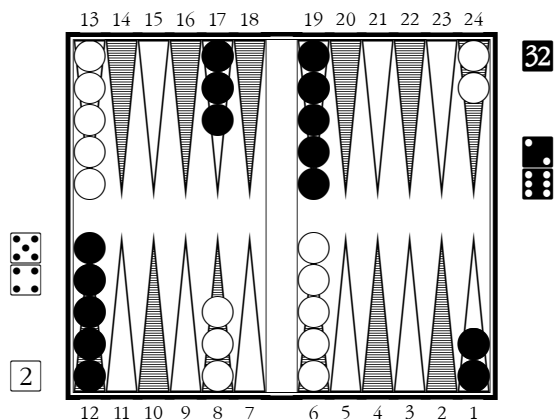


## Copenhagen (Othello)

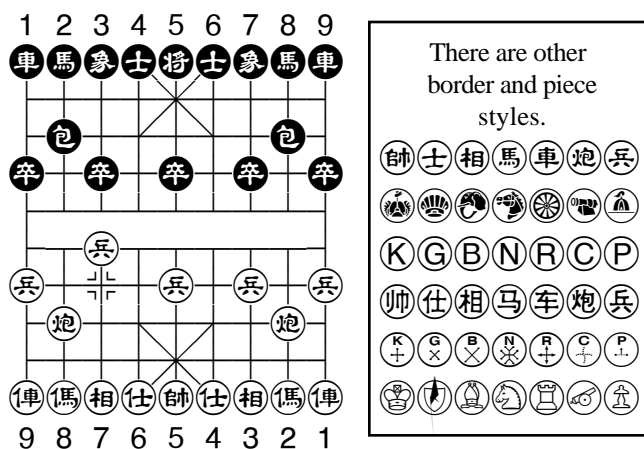


There is an algebraic border for up to a 10x10 board. Numbering the disks is optional.

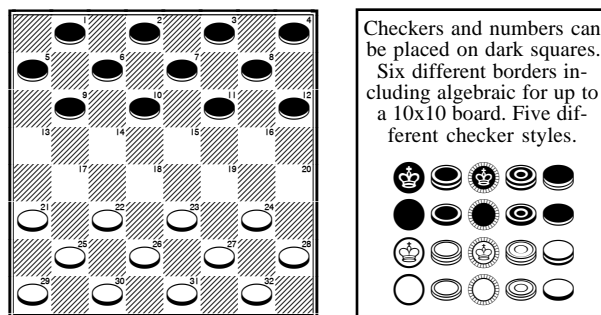
## MonteCarlo (backgammon)



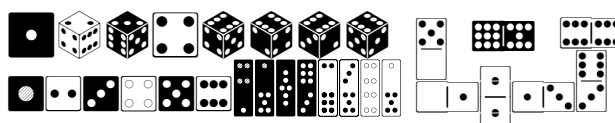
## Beijing (xiangqi or Chinese chess)



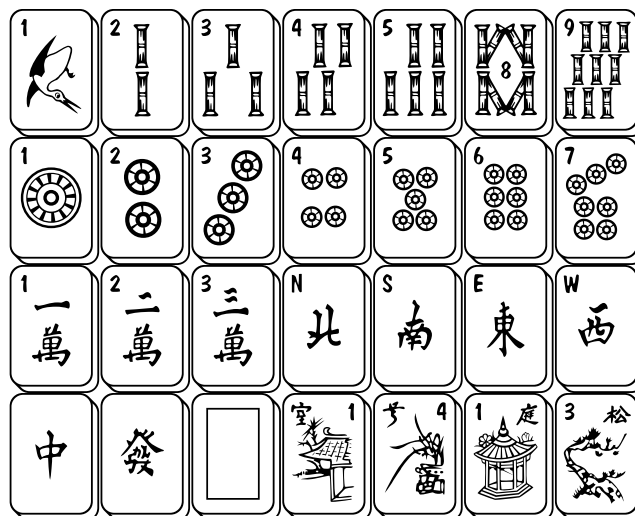
## Edinburgh (checkers)



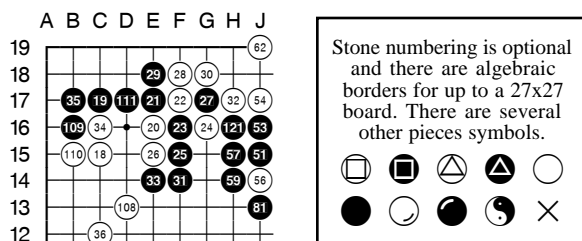
## Las Vegas (dice and dominoes)



## Canton (Mah Jong)



## Tokyo (go)



## Bermuda Bridge (Bermuda Bridge Alternate is similar, see keymap below)

|        |   |   |   |   |   |   |   |   |      |    |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|------|----|---|---|---|---|
|        | A | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9    | 10 | — | — | = |   |
|        | q | w | e | r | = | t | y | u | i    | o  | p | [ | ] | \ |
|        | a | s | d | f | g | h | j | k | ecla |    |   |   |   |   |
| shift  |   | x | c | v | b | n | m | , | .    | /  |   |   |   |   |
| option |   |   |   |   |   |   |   |   |      |    |   |   |   |   |

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| © 1995<br>Steve Smith | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ★ | 8 | 9 | 0 | — | + | = |
|                       | Q | w | e | r | = | t | y | u | i | o | p | [ | ] | \ |
|                       | A | S | D | e | f | g | h | J | K |   |   |   |   |   |
| shift                 |   | w | D | c | v | b | N | m | , | . | ? | / |   |   |
| option                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## Bermuda Bridge (Bermuda Bridge Alternate is similar, see keymap below)

| Key | Char | Explanation      | Key | Char | Explanation          | Key | Char | Explanation         |
|-----|------|------------------|-----|------|----------------------|-----|------|---------------------|
| 1   | A    | ace              | N   | N    | North style 1        | n   | none | none                |
| 2   | 2    | two              | S   | S    | South style 1        | =   | —    | (none)              |
| 3   | 3    | three            | E   | E    | East top style 1     | o   |      | space               |
| 4   | 4    | four             | e   | E    | East bottom style 1  | <   | ┐    | upper left corner   |
| 5   | 5    | five             | W   | w    | West top style 1     | >   | ┌    | upper right corner  |
| 6   | 6    | six              | w   | w    | West bottom style 1  | ,   | └    | lower left corner   |
| 7   | 7    | seven            | O   | N    | North top style 2    | .   | ┘    | lower right corner  |
| 8   | 8    | eight            | P   | N    | North bottom style 2 | —   | —    | top edge style 1    |
| 9   | 9    | nine             | T   | S    | South top style 2    | -   | —    | bottom edge style 1 |
| 0   | 10   | ten              | U   | S    | South bottom style 2 | [   |      | left edge style 1   |
| J   | J    | jack             | F   | E    | East top style 2     | ]   |      | right edge style 1  |
| Q   | Q    | queen            | G   | E    | East bottom style 2  | t   | —    | top edge style 2    |
| K   | K    | king             | X   | w    | West top style 2     | b   | —    | bottom edge style 2 |
| A   | A    | ace              | Y   | w    | West bottom style 2  | {   |      | left edge style 2   |
| c   | ♣    | clubs            | D   | D    | D (for Dummy)        | }   |      | right edge style 2  |
| d   | ♦    | diamonds         | u   | um   | um (for Dummy)       | ?   | ?    | question mark       |
| h   | ♥    | hearts           | m   | my   | my (for Dummy)       | x   | ×    | x                   |
| s   | ♠    | spades           | C   | D    | D (for Declarer)     | *   | ★    | star                |
| f   | ♦    | diamonds (solid) | l   | ecla | ecla (for Declarer)  | +   | +    | plus sign           |
| j   | ♥    | hearts (solid)   | r   | rer  | rer (for Declarer)   | ~   | ©    | copyright notice    |

**Bermuda Bridge Alternate** is similar to **Bermuda Bridge**. Here are the differences. There is only one style of N,S,E and W. The style 1 border doesn't require corners. Different characters are used for "Declarer". See keymap below.

| Key | Char | Explanation         |
|-----|------|---------------------|
| N   | N    | North               |
| S   | S    | South               |
| E   | E    | East                |
| W   | W    | West                |
| D   | D    | D (for Declarer)    |
| e   | ecla | ecla (for Declarer) |

## Bermuda Alternate (All the other playing card fonts have the same keyboard map)

|       |        |   |   |   |   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |
|-------|--------|---|---|---|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|---|
|       |        | 1 |   | 2 |   | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 0 |  | - |  | = |   |
|       |        | q |   | w |   | e |  | r |  | t |  | y |  | u |  | i |  | o |  | p |  | [ |  | ] | \ |
|       |        | a | . |   | s | d |  | f |  | g |  | h |  | j |  | k |  | l |  | ; |  | ' |  |   |   |
| shift |        | z |   | x |   | c |  | v |  | b |  | n |  | m |  | . |  | . |  | / |  |   |  |   |   |
|       | option |   |   |   |   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |

|       |        |   |   |   |   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |
|-------|--------|---|---|---|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|---|
|       |        | 1 |   | 2 |   | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 0 |  | - |  | = |   |
|       |        | q |   | w |   | e |  | r |  | t |  | y |  | u |  | i |  | o |  | p |  | [ |  | ] | \ |
|       |        | a | . |   | s | d |  | f |  | g |  | h |  | j |  | k |  | l |  | ; |  | ' |  |   |   |
| shift |        | z |   | x |   | c |  | v |  | b |  | n |  | m |  | . |  | . |  | / |  |   |  |   |   |
|       | option |   |   |   |   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |

## Bermuda Top (All the other playing card fonts have the same keymap)

| Key | Char | Explanation       | Key | Char | Explanation       | Key | Char | Explanation      | Key | Char | Explanation       |
|-----|------|-------------------|-----|------|-------------------|-----|------|------------------|-----|------|-------------------|
| 1   |      | ace of spades     | !   |      | ace of hearts     | q   |      | ace of clubs     | Q   |      | ace of hearts     |
| 2   |      | two of spades     | @   |      | two of hearts     | w   |      | two of clubs     | W   |      | two of hearts     |
| 3   |      | three of spades   | #   |      | three of hearts   | e   |      | three of clubs   | E   |      | three of hearts   |
| 4   |      | four of spades    | \$  |      | four of hearts    | r   |      | four of clubs    | R   |      | four of hearts    |
| 5   |      | five of spades    | %   |      | five of hearts    | t   |      | five of clubs    | T   |      | five of hearts    |
| 6   |      | six of spades     | ^   |      | six of hearts     | y   |      | six of clubs     | Y   |      | six of hearts     |
| 7   |      | seven of spades   | &   |      | seven of hearts   | u   |      | seven of clubs   | U   |      | seven of hearts   |
| 8   |      | eight of spades   | *   |      | eight of hearts   | i   |      | eight of clubs   | I   |      | eight of hearts   |
| 9   |      | nine of spades    | (   |      | nine of hearts    | o   |      | nine of clubs    | O   |      | nine of hearts    |
| 0   |      | ten of spades     | )   |      | ten of hearts     | p   |      | ten of clubs     | P   |      | ten of hearts     |
| j   |      | jack of spades    | J   |      | jack of hearts    | m   |      | jack of clubs    | M   |      | jack of hearts    |
| d   |      | queen of spades   | D   |      | queen of hearts   | c   |      | queen of clubs   | C   |      | queen of hearts   |
| k   |      | king of spades    | K   |      | king of hearts    | ,   |      | king of clubs    | <   |      | king of hearts    |
| a   |      | ace of spades     | A   |      | ace of hearts     | z   |      | ace of clubs     | Z   |      | ace of hearts     |
| -   |      | big spade on card | _   |      | big heart on card | =   |      | big club on card | +   |      | big heart on card |
| [   |      | big spade         | {   |      | big heart         | ]   |      | big club         | }   |      | big heart         |
| x   |      | card back 1       | X   |      | card back 2       | v   |      | card back 3      | B   |      | card back 4       |
| ?   |      | joker             | b   |      | blank card        |     |      |                  |     |      |                   |

**Note:** The hearts characters are “shifted” on the keyboard, i.e. 3 of hearts is “shift 3”. The clubs characters are to the lower right of the corresponding characters on the keyboard, i.e. 5 of clubs is “r” which is to the lower right of 5 on the keyboard. The diamonds are “shifted” versions of the characters to the lower right of the given character on the keyboard, i.e. a 5 of diamonds is “T” which is to the lower right of 5 on the keyboard. The jack’s root letter is “j” so jack of spades is “j”, jack of hearts is “J”, jack of clubs is “m” (lower left of j) and jack of diamonds is “M”. The queen’s root letter is “d” (q isn’t possible and “dame” translates to “queen” in several languages) the king’s roots letter is “k”