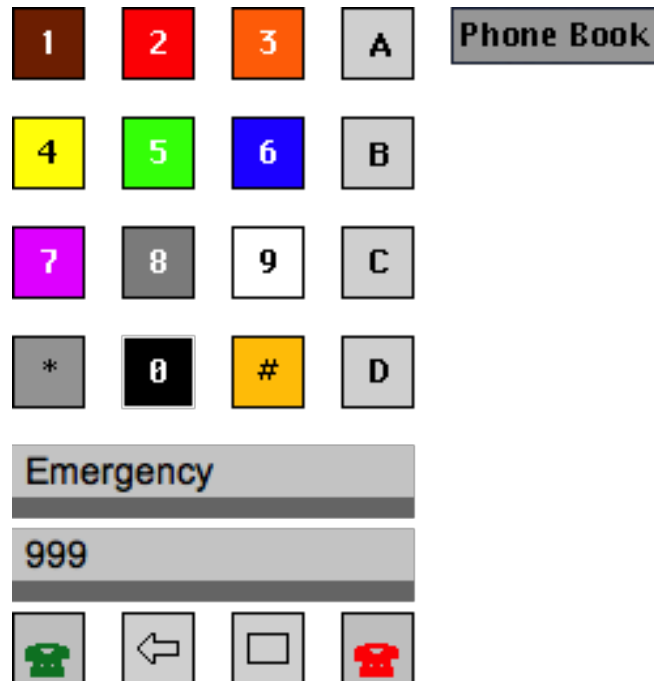


# DTMF Dial

Version 3.0 6 April 2015

## Summary

DTMF Dial displays a telephone keypad, which can be used to dial a telephone.



The handset microphone should be placed near to the computer's loudspeaker.

## Description

DTMF Dial produces DTMF tones when its keys are pressed, or it can transmit a telephone number, typed into the box, when the phone icon is clicked. The telephone handset should be placed near to the computer's loudspeaker. DTMF Dial should work with any phone, whether or not it has a tone keypad, provided the telephone exchange is tone enabled.

## Version History

1.0 - initial release - no frills version.

1.1 - enhanced version:

Marginally improved graphics!

New preference **Show Keypad** to show or hide the keypad. This setting can also be toggled by **alt-clicking** the phone icon.

New preferences to enable the widget to transform a telephone number before it is transmitted.

New preference **Enable Number Processing** to enable or disable this feature. This setting

can also be toggled by **capslock-clicking** the phone icon. [On Windows **control-clicking**.] Because the change of mode makes no visible alteration to the widget, there is audible confirmation of the change:

Number Processing **Enabled** is indicated by the morse letter **K** (da di da).

Number Processing **Disabled** is indicated by the morse letter **R** (di da di).

### Setting the dialling preferences

Number Processing is controlled by the following preference settings:

	Example settings for USA	Example settings for UK
National telephone number:	202 456 1414	0 20 7925 0918
International form of number:	+1 202 456 1414	+44 20 7925 0918
<b>Country Code</b>	1	44
<b>Area Code</b>	202	20
<b>Local Area Digits</b>	7	8
<b>International Access Code</b>	011	00
<b>National Access Code</b>	1	0
<b>National Number Presentation</b>	not checked	checked

This box should be checked if national numbers are already prefixed by the National Access Code.

### General Prefix

This can be used to enter a General Prefix (eg to access an outside line on a PABX). Commas can be used to insert one second pauses.

#### 1.2 - processing of alphabetic "numbers" :

New preference **Enable Alphabetic Processing** to enable or disable this feature. This setting can also be toggled by **capslock+shift-clicking** the phone icon. [On Windows **control+shift-clicking**.] Because the change of mode makes no visible alteration to the widget, there is audible confirmation of the change:

Alphabetic Processing **Enabled** is indicated by the morse sequence **KK** (da di da da di da).

Alphabetic Processing **Disabled** is indicated by the morse sequence **RR** (di da di di da di).

When Alphabetic Processing is enabled, alphabetic "numbers" such as **+1-800-MY-APPLE** are transformed into their equivalent digit sequences. This is done **before** any other number processing described above. In this mode, the keypad keys A,B,C,D are also transformed to the digits 2, 2, 2, 3 and generate tones corresponding to the resulting digits.

When Alphabetic Processing is disabled, the keypad keys A,B,C,D produce the special A,B,C,D tones.

### 1.3 - Phone Book added:

Numbers can be stored in and selected from a phone book which is saved in the widget's preference file.

There are three operations on the phone book:

**Add** a number to the phone book by **alt-clicking** the **A** key.

**Choose** a number from the phone book by **alt-clicking** the **C** key.

**Delete** a number from the phone book by **alt-clicking** the **D** key.

1.3.1 - minor change to the way in which an emergency number is inserted when the last entry in the phone book is deleted.

Emergency numbers can be added or deleted in the same way as other numbers. The phone book initially contains one entry, the emergency number - 911, which is widely used in North America.

When the last remaining entry is deleted from the phone book, an emergency number is inserted in its place according to the following table:

Country/Region Number	Country Code	Emergency
Canada	1	911
Mexico	52	911
USA	1	911
Hong Kong	852	999
Poland	48	999
UK	44	999
Australia	61	000
New Zealand	64	111
All Others		112
Used in all EU countries and on GSM mobiles worldwide.		

1.4 - *Macintosh Only*: DTMF Dial can now look up names in the Contacts Book and use the corresponding telephone numbers.

There is one additional operation on the phone book:

*Macintosh Only*: **Bring** a number from the Contacts Book to the phone book by **alt-clicking** the **B** key.

1.5 - pulldown menu added to choose telephone numbers from the phone book.

New preference **Show Menu** to show or hide the **Phone Book** menu. This setting can also be toggled by **shift-alt-clicking** the phone icon.

To force phone book entries to appear early in the sorted order, they can be prefixed by a **full stop**.

1.6 - "**Bring** a number from the Contacts **Book**" action changed to allow use of only one of first name or last name (as well as both).

[*Macintosh Only*]

1.7 - experimental in-car version - not released.

1.8 - **Phone Book** menu now placed to the right of the keypad, whenever the keypad is visible.

Backspace and clear buttons added.

1.8.7 - Added ability to place commas (to denote one second dialling pauses) in stored telephone numbers.

2.0 - Improved **Phone Book** menu.

3.0 - Improved graphics and sounds.

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