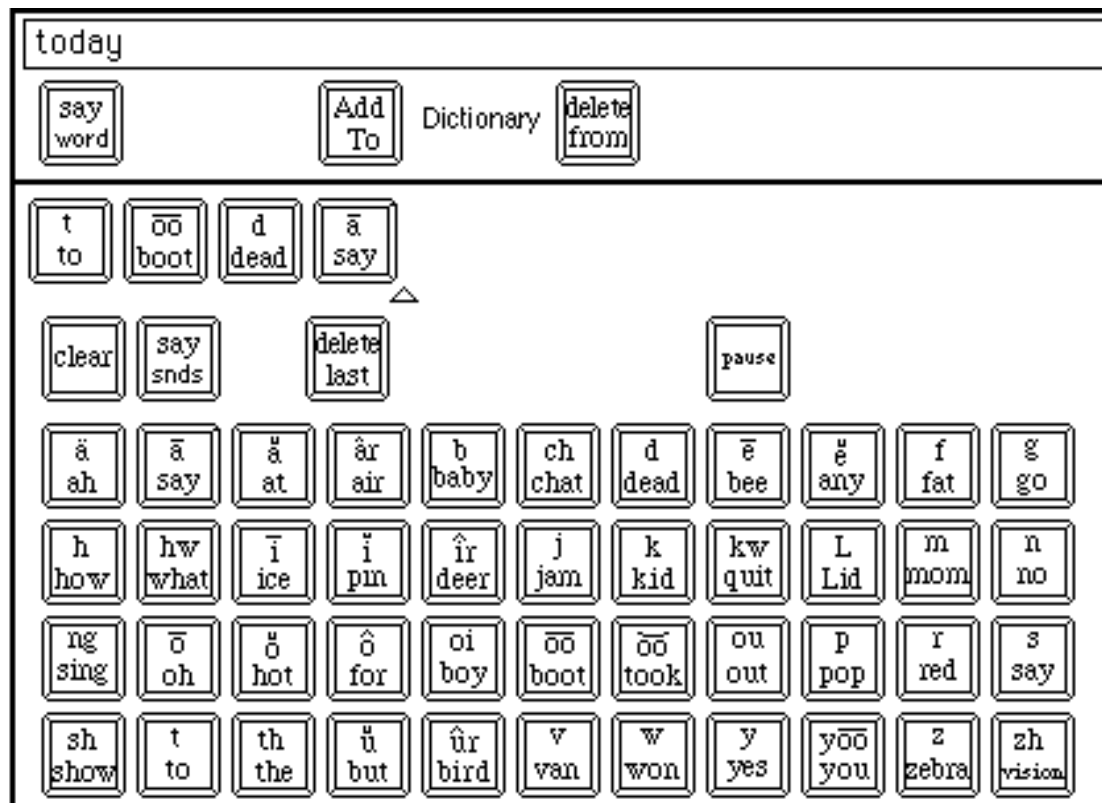


TalkingKeys Pro™

*Speech output for the Macintosh
featuring digitized voices*

System 7.0 and above ONLY!!!



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Arvada, Colorado 80003
(303) 422-0757**

Register your license now for benefits in the future.

Please register your copy of TalkingKeys Pro. It is only \$25.00. After you enter your registration number, the Init will work and you can use the other voices and add works to the dictionary. Please register if you intend to use this program. It took 18 months of hard work to develop and I would like to make more versions so please help me stay in business!

Graham Software intends to provide quality support to bona fide licensees who respect our license agreement. Support, however, will **not** be provided to users who are not properly registered.

Make a backup copy before you start to use TalkingKeys.

IMPORTANT

**Use this program with
System 7.0 or above - ONLY
and 4 Meg of RAM (or more).**

About TalkingKeys Pro

TalkingKeys Pro adds speech to your Macintosh. It uses high quality digitized sounds to form speech. It will operate in the background, behind other programs and speak what you type on the keyboard. It will read large sections of text that can be typed or pasted into it. It has a fully integrated word editor to allow you to teach it the pronunciation of words it does not know, such as proper names, etc. It is ideal for children learning to read or anyone wanting to learn how English words are pronounced. (A language seemingly without rules.)

We do not claim that TalkingKeys Pro is perfect or that it will pronounce every word correctly. There are many ways to pronounce words (just go to any part of the country that you are not from). The built in editor allows you to customize the speech. There will always be more words for TalkingKeys to learn, but fortunately the editor is very easy to use. You can even delete words from the dictionary. TalkingKeys has many built in "rules" but these are not all encompassing. That is why the dictionary is available to teach TalkingKeys how to do better.

Installation

Move the TalkingKeys Pro program, the TK Voice file(s), the TK Dictionary file and the TK Pictures file into the same folder of your hard drive. (Keep these files together.) Drag the TKInit file into the System folder. You will be asked by the Finder if you wish to place this file into the Extensions Folder - click **OK**. Do not install TKInit if you do not wish to use TalkingKeys Pro in the background (speaking while typing into other programs). It is recommended that you keep TKInit named the way it is (with a sheep at the beginning of the name). This allows it to be the last INIT to load. If you are using QuicKeys, place QuicKeys in the Extensions Folder (not the Control

Panels folder). You can use an Alias to place QuicKeys in the Control Panels folder. By doing this, you will avoid any conflicts between QuicKeys and TKInit. If you do not install TKInit and QuicKeys in this manner, you will have problems. If you have

any INIT conflicts, remove all of your init files and add them back one at a time until you find the two that are in conflict.

Note: You do not have to install the TK Pictures file or the TKInit file. If you do not, their functions will not work; the program will work fine except that no background functions (or menu talking) can happen without the TKInit file being loaded into memory at startup time. The program will function without the TK Dictionary file but many words will be mispronounced!

TalkingKeys Pro windows.

1) Letters & Pictures - reads and displays each key of the keyboard and resizes the character to be larger when the window size is larger. If the Letters window is open, all individual keystrokes will be spoken (as set by the Options window). Close the Letters & Pictures window to “turn off” the speaking of each letter. Note that Letters will be spoken even if you cannot see the Letters window, you must actually close it by clicking on the close box (in the upper left corner) or by choosing “Close Window” from the file menu when Letters window is in front of all other windows. It is constructed this way so that you can see and hear the letters typed while the Reader window is the front window. With the correct options set, you can have each letter you type be spoken or not be spoken by setting the option in “Letters/Pictures Options” under the Windows menu.

This window will show pictures when a word matches the name of a picture in the TK Pictures file (see below). You can have the pictures shown or not shown by setting the option in “Letters/Pictures Options” under the Windows menu. You can scale the pictures to fit the current size of the window. If the window is larger, the picture will be larger when the “Scale Picture to Window” option is checked “ON”. Note that you must have a color monitor to see the pictures in color (obviously), but the pictures will look good with the monitor set to at least 16 grays. You will notice that under any setting less than millions of colors, the colors will change with each picture. TalkingKeys sets the color palette for each picture. The picture will disappear after its name is read but you can get it back by clicking on the Letters & Pictures window. The picture will stay until you type more letters or read more words.

The Letters & Pictures window has a scroll bar that allows you to look at the pictures in the TK Pictures file. Click on the up or down arrow of the

scroll bar to step through the pictures one at a time. Notice that the name of each picture appears at the bottom of the window and the name it spoken when it first appears.

2) Word Builder - lets you try different sounds in combination to build a whole word or you can type a word and have it pronounced. You can type the desired word into the upper portion of the window and then click on the “say word” icon and the word will be pronounced. The icons on the bottom portion of the window allow you to build a word by sounds alone. You can click on each sound in turn to build the word and use the “say snds” icon to hear what you have built. The “Clear” will erase all the sounds you have chosen and the “Delete Last” will eliminate the last sound only. You can add a pronunciation to the dictionary by first building the word the way you want it and then clicking the “Add to” icon. There are two icons by the word Dictionary. “Add to” will add a word to the dictionary and “delete from” will delete a word and its pronunciation from the dictionary. You must type at least two letters and have sounds to add a word to the dictionary.

When you are using the Reader window, you can select a word and then click on the Word Builder window and the selected word will appear with its pronunciation. You can then see how it is pronounced and decide if you would like to change it; add it to the dictionary or replace what the dictionary has in it.

3) Sound Pattern - graphically shows the pattern of the current sound (after spoken). You can resize this window to see the pattern larger or smaller.

4) Reader - Text editing window. Type in anything and then click “Read It”, it will speak what was typed. The reading will start from the point where the flashing cursor is located. If the cursor is at the end of the text, Reader will start from the beginning. Reader hilites each word as it is spoken. Select a word in this window then click on the Word Builder window to see its pronunciation and to edit how it is pronounced. Text from this window can be saved onto a disk.

Clicking on the “Options” button will bring up a dialog box to set reading options (see Reader Options under the Windows menu section below).

You can open any text file (a file of type TEXT). The title of the Reader window will change to match the name of the TEXT file that is currently open. TalkingKeys can create and save text files that will have a TalkingKeys icon or it can open and change any TEXT file created with other programs. If a file created by another program is changed, it will still have the icon of the program that created it. If you want to change a non-TalkingKeys TEXT file to a TalkingKeys file, simply choose “Save as” from the file menu. You can give it a new name or use the same one.

5) Speak Options - sets what is read such as numbers, periods, commas and other non alphabet characters, for both individual letters and whole words. Boxes that are checked show the characters that will be spoken. You can eliminate unwanted keystrokes. This is useful for reading words since you would not want to hear every keystroke that was typed within some text such as: space, comma, return etc..

6) Letter’s Color sets the color of letters in the Letters & Picture window. You must have a color monitor for this to work. If you use any number of grays (above black & white) you will notice some difference.

7) Letters/Pictures Options sets when letters are spoken, when pictures are shown and if pictures are scaled to fit the current window size.

Using a word processor

TalkingKeys will speak words and/or letters while you are using a word processor (or other program). You must have the TKInit installed for this function to work.

First open TalkingKeys and set the options the way you want them. Here is one example of how to use it:

1) Check on “Words Only” in the Behind/Words menu.

2) Check on all three: Auto Paste, Auto Read and Auto Return.

3) Open your word processor and start typing. Each word will be spoken after you press a character other than a letter (a space, comma, period etc.).

- 4) Next try Checking on “Background Off” in the Behind/Words menu. This will turn the speaking off for each word or letter.
- 5) Return to your word processor and type a whole sentence or paragraph.

6) Select all of the text you just typed (Command A in most programs). Copy the text (Command C) and press the Escape key.

You will see TalkingKeys come to the front and read your text (all that you copied). Then it will return you to the program you were just using. You can set the options differently to get different effect. Try it!

The Menus:

File Menu:

File	
New Text	⌘N
Open Voice	⌘O
Open Text File...	⌘T

Close Window	⌘W

Save Text	⌘S
Save Text as...	

Quit	⌘Q

New Text command will clear all text from the Reader window so that you can start over. You will be asked if you want to save the text in the Reader window if it has not been saved already.

Open Voice command opens another voice file (a different voice!). Choose “Open Voice” from the file menu if you want to use another voice. If you want another voice to be the one automatically opened by TalkingKeys, rename it to “TK Voice” (no quotes but a space between TK and Voice).

Open Text File... allows you to open any file that is of the type: TEXT. TalkingKeys will save TEXT files from the text in the Reader window. *Note: the name of the Reader window will change to match the name of the currently open file.*

Close Window closes the top window.

Save Text saves the text in the Reader window in a file on disk.

Save Text as... allows you to save the Reader window text under a different name. Be careful that when you replace text in the Reader window that you save it under a different name to avoid changing the original file.

Quit returns you to the Finder.

Edit Menu:

Edit	
Cut	⌘H
Copy	⌘C
Paste	⌘V
Paste & Replace all	⌘R
Clear	⌘B
.....	
Select All	⌘A
.....	
Paste & Save Picture	⌘P
.....	
Delete Picture	

The cut, copy, paste, clear and select all functions work only in the Reader window.

Cut - cuts the selected text.

Copy - copies the selected text.

Paste - pastes the text that was cut or copied - this function does not paste text from the clipboard (that is done by “Paste & Replace all”).

Paste & Replace all - will clear all text from the Reader window and paste text from the clipboard into the Reader window. This function will work even if the Reader window is not the front window. The Reader window will be brought to the front.

Clear - will eliminate the selected text. It will not be placed on the clipboard.

Select All - will select all the text in the window.

Paste & Save Picture allows you to paste a picture into TalkingKeys and then save it in the TK Pictures file under a name that you choose. The picture will then be displayed when the Reader window reads the corresponding name or word. The option for showing pictures must be turned on under Letters/Pictures Options.

Delete Picture will remove a picture from the TK Pictures file. Click the scrollbar until the picture you want to delete is displayed then choose Delete Picture from the Edit menu. The displayed picture will be permanently deleted from the TK Pictures file.

Font Menu:

Font

Chicago
Courier
Geneva
Helvetica
Monaco
Times

This menu will only work with the Letters window. It will set the font for the letters to be displayed. If you can resize the Letters window, the size of the letters will change with the size of the window. You can change the font and size of the text in the Reader window by clicking the up or down arrows in the upper portion of the window.

Pitch Menu:**Pitch**

Low
Normal
High
Higher
Highest
Chipmunk

You can set the pitch of speech with this menu. Normal is recommended; Chipmunk is fun.

The higher the voice, the faster the speech occurs. If you want to hear faster “Normal” reading, use the TK Voice - Fast file. Choose “Open Voice” from the file menu and open this file. If you want to use this file as your default (normal) voice, rename it “TK Voice” (no quotes but a space between TK and Voice).

Windows Menu:**Windows**

Reader
Letters & Pictures
Word Builder
Sound Pattern

Speak Options...
Letter's Color...
Letters/Pictures Options...

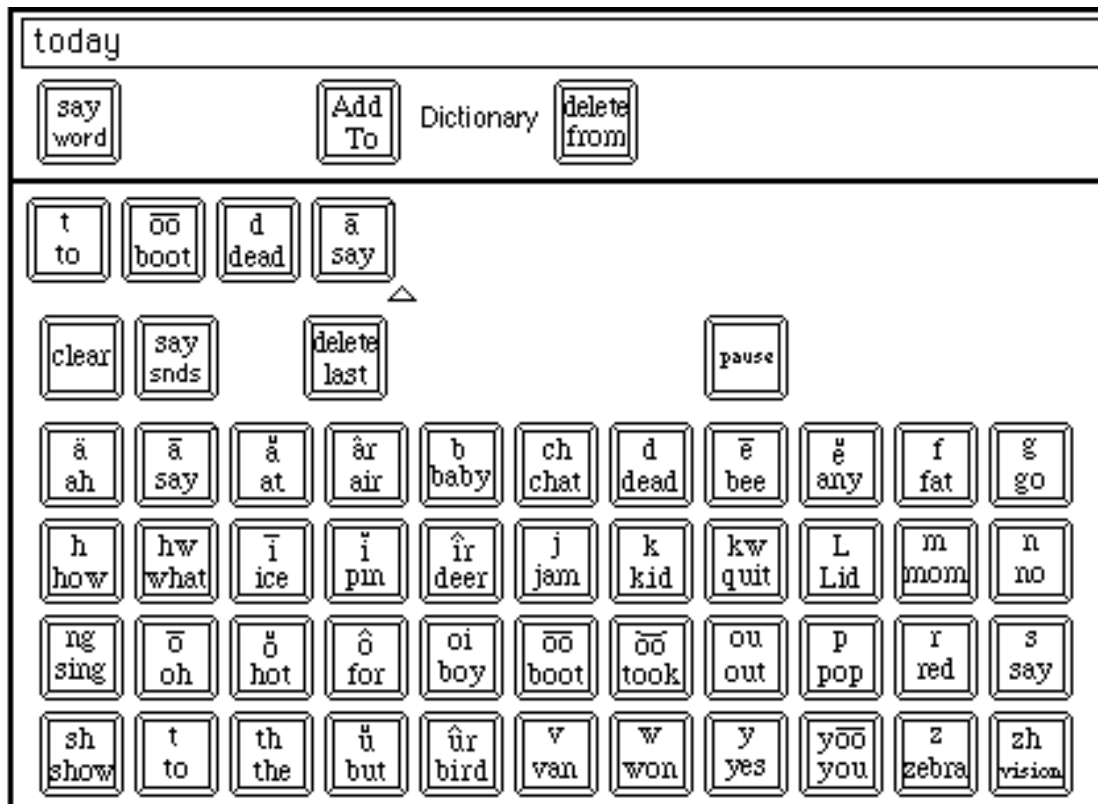
Reader Options...
List Pictures

Selecting each item in the top portion of the menu will bring that window to the front. The items on the bottom portion of the menu are dialog boxes used to set various options.

Reader is a window where you can type text. You can change the font and font size by clicking the small up and down arrows on the top part of the window. After text is in the window, you can click on the “Read it” button and the text will be read to you. Each word will be highlighted as it is read. If the Letters & Pictures window is open (even if behind another window) and the option is set to have letters spoken, each key you press on the keyboard will be spoken and it will appear in the Letters & Pictures window. If the Show Pictures option is set on, a picture will be displayed in the Letters & Pictures window when a word is read that matches the name of the picture. There is a file included that contains all the names of the pictures currently in the TK Pictures file. You can add more yourself later (see Edit Menu).

Letters & Pictures. This window shows each letter (keystroke) typed. It is spoken if the option is turned on under Letters/Pictures Options (see below). If the option for showing pictures is turned on under Letters/Pictures Options (see below), a picture will be shown when its name matches a word that has been spoken. Example: dog, cat etc.. See the list of pictures in the file named TK Pictures.Text. The Letters & Pictures window has a scroll bar that allows you to look at the pictures in the TK Pictures file. Click on the up or down arrow of the scroll bar to step through the pictures one at a time. Notice that the name of each picture appears at the bottom of the window and the name it spoken when it first appears.

Word Builder Window



Word Builder. This window lets you to form words by using individual sounds. This window will allow you to add words to and remove words from the dictionary for proper pronunciation. The file named TK Dictionary must be in the same folder as TalkingKeys Pro for this function to work. You can type a word into the box on the top of the window or you can select a word in the Reader window and then click on the Word Builder window and the word will automatically be typed into Word Builder for you.

At the top of the window is a box into which you type the word that you want to work on. Below that are 3 icons.

“say word” - pronounces the typed word.

The next 2 icons perform functions on the TK Dictionary file:

“Add to” - adds the word and its pronunciation to the dictionary.

“delete from” To use “delete from”, type the word you want to remove, then click the “delete from” icon. This is useful when you want to undo a pronunciation you have added.

You can replace a word that already exists by typing it and building its sounds, then clicking “Add to”. You will be asked if you want to replace

the existing word.

Note: there is no need to add a word that is already pronounced correctly!





Underneath the sounds of the word are 4 icons.

“**Clear**” icon will remove the sounds used to pronounce a word from the screen so you can start over. (This happens each time you click the “say word” icon and TalkingKeys decides what sounds to use either from the dictionary or by using its built in rules.)

“**say snds**” icon will speak the sounds icons that are shown directly above it. When you type a word and then click “say word”, the word may be mispronounced. You can change the sounds by adding, deleting or changing its sounds. To hear your changes, click the “say snds” icon. Then you can add the changed word and sounds to the dictionary.

“**delete last**” icon will remove the last sound from the current set.

“**pause**” icon will add a slight pause between sounds (so short you can’t tell). The main function of “pause” is to “break” a sound combination that does not work for the particular word you are working on. Some sounds are combined by TalkingKeys to form more pleasing sounds. If these do not work, use “pause”. Very often, you will not need to use “pause”.

All the icons below the “Clear” icon are the sounds that make up the English language. There are 44 different sounds. Some are similar to each other with only subtle differences. For example, the sound  is very similar to , but if you use the  when pronouncing an “o”, it will usually work better than .

Try the various sounds and you will soon be able to build a word by sound alone. When you click on a sound icon, it will be added to the row above as part of the current word pronunciation. Since each word has two parts, (letters and sounds) you must complete it to add it to the dictionary. You would not want to add just letters and no sounds!

Here is an example of how to use Word Builder.

First type a word, then click the “say word” icon that is directly under the typed word. The word will be pronounced and the sounds TalkingKeys is using will appear under the typed word. You can then edit (change) those sounds to make the word sound differently (more “correct”). Click on a sound icon on the bottom portion of the window to add a sound. Click on one of the sounds being used in the word and it will be deleted (the cursor turns into a trash can). Click in between the used sounds (under and between) and you can insert a sound between 2 already in use (the cursor turns into a triangle). You can use the left and right arrow keys on the keyboard to move the insertion point. When you are satisfied with how the word is pronounced, click “Add to” to add this pronunciation to the dictionary. If you do this and do not like it, you can delete the word by typing it into the Word Builder window and clicking on “delete from” and the word will be deleted from the dictionary.

Note: the file TK Dictionary is updated on disk only when you Quit TalkingKeys Pro. If for some reason your computer is shutdown (power outage) the changes will not be saved and the dictionary file will remain the way it was the last time it was updated.

Sound Pattern this window shows what the spoken letter or word looks like as a graphic pattern (the sound pattern).

Speak Options... lets you choose what keys to speak when reading just letters (within the Letters window) or when reading whole words (Reader window). If you do not want to hear every keystroke between words be sure that only the desired items are checked in the dialog box. These options only affect TalkingKeys when it is in front. The Behind/Words menu changes what is spoken when you are in another program.

Letter’s Color - sets the color of letters within the Letters window. For black & white Macs, leave this setting on black (all zeros). If you are using 16 or 256 grays, you can choose the shade you like.

Letters/Pictures Options... This dialog box allows you to set whether letters are spoken or not and if pictures are shown and if pictures are shown, whether they are scaled to fit the current window size (fill it up). *Note:* If the TK Picture file is present and a word that is spoken matches the name of a picture, it will be displayed in the Letter & Pictures window. If you want the pictures to look their best, do not scale them (no check mark on “Scale

Picture to Window”).

Reader Options... (also available by clicking the Options in the Reader window.)

Step Read Options - speaks either words or individual letters when you press the right arrow key - when the Reader window is the front window. You can use the “right arrow” key to step through words or letters in the Reader window. It will read one word at a time or one letter at a time. The “left arrow” key will move the insertion point backwards (not speak).

Speak as you type Options - when you are typing into the Reader window, you can have it speak each keystroke (letters only, partial words (the current word as it would sound as a whole word, whole words (after a word is completed - when a space or comma etc. is typed), or you can turn this function off.

Word Delay - sets the amount of time between spoken words.

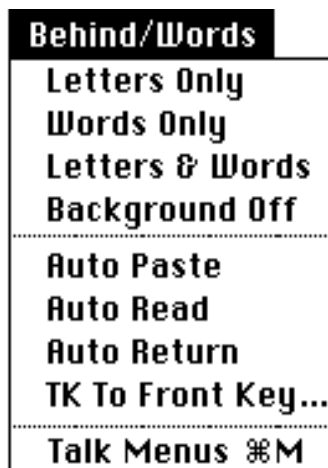
List Pictures will put a list, into the Reader window, of all the names of the pictures in the TK Pictures file.

Volume Menu:

Volume	
One	⌘1
Two	⌘2
Three	⌘3
Four	⌘4
Five	⌘5
Six	⌘6
Seven	⌘7

Sets the volume level of the Mac's speaker. One is the lowest setting and Seven is the highest.

Behind/Words Menu:



You must be using TKInit for these functions to work. (Drag it into your System Folder and then restart you Macintosh for this file to work.)

Letters Only means that TalkingKeys will only speak the keystrokes (letters) you type when in another program. No complete words will be spoken.

Words Only means that TalkingKeys will only speak whole words (no individual letters). A word is considered complete when you type something other than a letter in the alphabet (a - through - z). If you type cat, it will say cat when you press the space bar.

Letters & Words will speak both letters and words. Type c (it says c), a (says a), t (says t) press space bar and it says cat (the whole word).

Background Off turns the background speaking off (nothing is said when you type).

The following 4 functions (Auto - Paste, Read and Return, TK to Front) allow you to copy text and press a single key that will bring the TalkingKeys program to the front. It will then paste the copied text into the Reader window, read it and return to the program that you were using.

Auto Paste will automatically paste text that is on the Clipboard into the Reader window when TalkingKeys is first opened or when it is brought to the front of the screen.

Auto Read will automatically read text that has been pasted into the Reader Window as soon as it is pasted in, without having to click on the "Read it" button.

Auto Return will return you to the program you were using before you invoked Auto Paste and Read. This will only work if you let TalkingKeys read the entire text that was automatically pasted into it.

TK To Front Key... allows you to set a key on the keyboard that will cause TalkingKeys to come to the front of the screen (in front of all other open programs). This is initially set to the Esc key (escape key).

Talk Menus if this item is checked, menus will be spoken as they are selected. This function works in the background with most programs. It will not work with Microsoft Word 5.1. "MS Word" uses some non-standard menu procedures that make it impossible for this version of TalkingKeys to speak its menus. It works in MacWrite Pro and MacDraw Pro, but it will not speak the menu title (it will speak the items in the menu).

TKInit must be installed and active for this function to work. Be sure it is in the Extensions Folder within the System Folder of your startup drive. You must restart your computer after installation for TKInit to work.

Talk Menus Options:

Shift Key: Hold down the shift key and no menu items will be spoken.

Option Key: Hold down the option key and disabled menu items will be spoken (otherwise, they are not spoken).

Adding words to the dictionary:

- 1) Be sure you like the sounds before you add it to the dictionary. You can easily delete it later but you may not find it by simply reading text. Some differences in sounds are very subtle. Practice on simple words that you are sure of, before you try adding new words.
- 2) Use a dictionary. You will be surprised how some words are pronounced in the dictionary. Many people mispronounce common words and even the dictionary has some "strange" ideas of how English words sound. In common usage, some sounds are substituted for what the dictionary might say. Such as: a "long e" is used by many people in words like "delete" (the second letter is "long e"). Some dictionaries say the second e should be pronounced like a "short i". Go figure.

On the other hand - more often, TalkingKeys will pronounce a word better if you use the sounds from a dictionary.

- 3) There may be times when you need to use the "pause" icon. This allows for a break between sounds. TalkingKeys sometimes combines sounds to make better sounding speech. A "pause" will stop TalkingKeys from using one of

its built in combinations and this will

occasionally make a word sound better.

Example: the word “release” - if you do not put a “pause” between the first “long e” and the “L” sound, you get a different (and wrong) effect. It sounds like real - lease instead of re-lease. Use the “pause” icon only when you need it. If you use it too much, it will only defeat the virtues of the program.

Note: If you are using QuicKeys 2, be sure that the TKInit file loads after QuicKeys. In System 7 or later, move QuicKeys into the Extensions Folder (not the Control Panel Folder). You can make an Alias if you want QuicKeys in the Control Panels Folder. Keep TKInit named as it is. This makes TKInit load into memory after QuicKeys.

The background functions only work with the INIT installed and you must have a registered copy!

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