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Speech Recognition and CaptionMaker

Table of Contents

SPEECH RECOGNITION AND CAPTIONMAKER.....	1
TABLE OF CONTENTS	1
SPEECH RECOGNITION SOFTWARE	2
Accuracy & delay	2
NATURALLY SPEAKING.....	2
IBM VIAVOICE	2
How to correct mistakes made by ViaVoice.....	3
How to stop opening menus when dictating.....	4

Speech Recognition Software

Speech Recognition software as it is available in the market at this moment, can't just recognize anyone voice without any training. If you spend an hour or so to do the training with your voice, you will get about 85% accuracy. If you keep on working with the software and teach the software your voice by correcting the wrong words, the software do have the capability to learn and you can easily get to 95% accuracy after working on it for several hours.

Accuracy & delay

Naturally Speaking software analyzes a complete sentence or a phrase until you pause talking and gives better accuracy compared to ViaVoice. Since Naturally Speaking analyzes the text before showing it on the screen, if you use it for live captioning, the captions might be delayed by a few seconds. For transcription purposes, the delay does not matter. So Naturally speaking is better than ViaVoice from the accuracy point of view.

Language supported

Naturally Speaking is available in multiple languages such as, English, Spanish, French, German. ViaVoice is available only in English

By using a speech recognition software you can

- transcribe a videotape. (for post-production captioning) and
- caption realtime (live) without using a steno machine and steno typists

Post-Production Caption

With the speech recognition software, you can watch the video, and repeat the words that are being said into the microphone. Then, you can import the document into the CaptionMaker software and it will automatically be broken up into formatted captions.

Realtime Caption

With the speech recognition software, you can listen to a live program, and repeat the words that are being said into the microphone. CPC CaptionMaker software will automatically send the words to an encoder and the live program will be captioned. We have and many of our customers have had a lot of success using this software

Naturally Speaking

To use Dragon Naturally Speaking versions 7 and up with Captionmaker, it is necessary to execute a utility software called DnsIniFix. This utility will find the Naturally Speaking ini files on your computer and add an entry to them for CaptionMaker. The utility software DnsIniFix.exe is available from

www.cpcweb.com/download/cmplete_software_downloads.htm#Utilities

IBM ViaVoice

- Easy to setup as you create a Personal Voice Model - which means ViaVoice can learn how you pronounce the words you use, which can assure good dictation accuracy.
- Through Recognition Wizard, fine-tune your Voice Model for improved dictation accuracy.
- Using the microphone headset and SpeakPad, the ViaVoice speech-enabled word processor, talk to your computer instead of typing.

- Or dictate, edit & format text directly into Microsoft Word 97, 2000, & 2002. Personal Edition can learn new words as you use them, and add them to the 160,000 word vocabulary, improving dictation accuracy the more you use the product.
- With the Text to Speech feature, ViaVoice can read back your typed and dictated text, which can make editing your documents easier.
- An improved Analyze My Documents feature can allow ViaVoice to understand your writing style and words you frequently use, which can lead to greater accuracy.
- Say basic Voice Commands to control the Web in Internet Explorer
- Key Control, which can ensure your voice commands are not mistaken for dictation.
- Large Font option which can make creating a Personal Voice model more enjoyable.
- Quick Response Dictation which can allow ViaVoice to respond quickly and efficiently as you create text with your voice.
- PCM ** enhancements can ensure that ViaVoice formatting and navigation commands work more quickly and efficiently.

How to correct mistakes made by ViaVoice

Method 1

- Click on the ViaVoice button at the top left of the screen and go to *Tools >> Manage My Vocabulary*
- Once you're in there, you may or may not already have a list of vocabulary words, if you see the word there that you want to correct, select it and click Train. Otherwise just click anywhere in the white space and then click Train.
- Write the word you want to fix, then hit the red record button and say the word clearly.
- The Vocabulary Manager should recognize the word from it's own library and match it to the word you spoke
- After you click Done the new word you added should appear on the list.

Method 2

- Click on the ViaVoice button at the top left of the screen and go to *Dictate To >> Word* or whichever program you want to use.
- Once you're in there, look for the icon of the pencil eraser, that is the "Correction Window" icon, and click it.
- Now you'll have a little window on the left hand side that you can use to correct mistakes made by ViaVoice.
- Start dictating normally and every time ViaVoice makes a mistake highlight the mistake.
- When you highlight the mistake, it should appear immediately in the Correction Window and provide a list of alternative words. If the word you intended to have written is not on the list, type it in.
- After you do this a few times, ViaVoice will begin to learn and you will get spontaneous pop-ups that will ask you if you want to add this particular word to your Vocabulary List.

- Always select Yes when opening a file and the IBM ViaVoice window pops up asking you “Do you wish to restore the speech session data associated with this document?” and always say Yes when saving if ViaVoice asks “Would you like to save your dictation session?”
- Words that get added to your Vocabulary List will appear over time in the *Manage My Vocabulary* window.

How to stop opening menus when dictating

- ViaVoice has built-in commands that open certain menus when specific commands are given. This is useful when operating a program while dictating, but can be disastrous for live captioning.
- To disable all built-in commands in ViaVoice go to *ViaVoice >> User Options >> ViaVoice Options >> Command Sets* and uncheck every single box that is checked under the *Commands* section.
- If later, you want to be able to open windows and access menus with spoken commands, simply click the *Default Settings* button and all the boxes you unchecked will be checked again.