



Computer Speech Recognition and Programming Consulting Services

Increasing Accuracy using the Vocabulary Editor

Dragon NaturallySpeaking & Dragon Medical

Dealing with Problem Words

Dragon makes only 3 types of errors:

- **Misrecognition** Dragon could have transcribed a dictation correctly but failed to do so.
- **Out of Vocabulary** The spoken word was not in the Dragon's vocabulary so alternate words were transcribed.
- **Ambiguity** Dragon responded correctly to what was spoken but not to what was meant.

Normal corrections using the using the Select and Correct/Spell That commands will generally fix Misrecognition and Out of Vocabulary errors and add new words "on the fly".

If "Normal Corrections" do not work and Misrecognitions continue:

Provide additional information in the Vocabulary Editor and/or train to:

- Fix Phonetic Model
- Provide an Alternate Pronunciation

First Step: Training: Use Correction Dialog Box (Correct That) to train words on the fly to enhance the Phonetic (pronunciation) Model for the words causing problems.

Training words must be consistent with NaturallySpeaking's two pronunciation models:

- Lower case words: Phonetically
- Upper case words: Each Letter Individually

Important Note: Training a word will not work if the word is not being pronounced according to one of these Pronunciation Models.

Training Productivity Strategies

- Train only on repeat errors
- Desired word should show up on the correction list by the 2nd or 3rd attempt
- On average, the desired word should move up the list with each correction
- If Desired word is not listed by 3rd attempt, the phonetic model probably cannot be corrected.

Second Step: Vocabulary Editor:

If training does not work, one of two situations has probably occurred:

- The same wrong (pesky) word keeps being recognized
- Different words are being recognized.

Use **Vocabulary Editor** to correct the recognition problem.

1. Removing Unwanted (Pesky) Repeat Error Words - If the recognized word is consistent and unneeded:

- Start Vocabulary Editor (**Dragon Bar, Words, View/Edit ...**)
- Type in word to be deleted in the “Written Form”
- Select the word in the vocabulary list and click “**Delete**”

2. Addressing Other Repeat Error Words - If the recognized word is inconsistent or cannot be deleted:

- The phonetic model cannot be corrected on the desired word so that it will be accurately recognized.
- The phonetic model of the desired word or the undesired word must be modified.

Modify Phonetic Models

Use the Vocabulary Editor to:

- Place the desired word in context
- Change the Spoken Form

Modify Phonetic Models: Using Context

This strategy works when the desired word is used in very specific contexts. Add the word as a phrase in the Written Form.

Written form:	“eye pressure”	Spoken form:	“I pressure”
	“legislative period”		<i>none required</i>

Modify Phonetic Models: Using Spoken Forms

This strategy works when no other strategy seems to apply or the word does not conform to NaturallySpeaking pronunciation models.

Written form:	“AAA”	Spoken form:	“triple A.”
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Spoken Forms “Tricks”

- Try to use existing words in the vocabulary in the Spoken Form.
- Spell Numbers out: 22 = twenty two
- Use “Initials” for the sound of individual letters: 3D = three D.
- Multiple letter sounds can be entered as an acronym: 3PGL = three PGL

Summary for Effective Corrections

NaturallySpeaking makes only 3 Types of Errors

- Misrecognition – Normal corrections
- Ambiguity – Reduce ambiguities
- Out of vocabulary – Normal corrections

First Step: Training

- Lower case words: Phonetically
- Upper case words: Each Letter Individually

Second Step: Vocabulary Editor

- Add Phrases
- Add Spoken Forms
- Delete Words

Use of these strategies should resolve over 99% of problem words.

For more information or questions please contact us:

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