NUANCE
Dictaphone Healthcare Solutions

Dragon® NaturallySpeaking® Medical 9.5 and Higher

Creating Advanced Scripting Voice Commands

Advanced Scripting is a feature of *Dragon NaturallySpeaking* used to create complex scripts which enable users to perform nearly any function on the computer using a voice command. The Advanced Scripting feature uses *Microsoft Visual Basic for Applications* (VBA) macro language, which is embedded in *Microsoft Office* applications.

To Create an Advanced Scripting Command:

1. If it is not already running on your computer, start *Dragon NaturallySpeaking*.

2. On the **DragonBar**, click **Tools**.

3. Select **Add New Command** or say "**Add new command**." The **MyCommands Editor** dialog box appears.

4. Make sure the cursor is in the **MyCommand Name** field.

5. Using your microphone, say a name for your command.

6. **(Optional)** In the **Description** field, dictate a short description of the command's function.

7. **(Optional but recommended)** From the **Group** dropdown list, select a group, or create a new group.

8. In the **Availability** section, keep the default setting of **Global**. This setting ensures that the command will work in other Windows applications.

9. From the **Command Type** dropdown list, select **Advanced Scripting**.

10. In the **Script** section, type your codes (see Table 1 below) between the **Sub Main** and **End Sub** default statements.

    Note: Refer to the Sample Command on page 2 of this document.

11. When finished, click **Save**.

    Note: If you entered a command using incorrect syntax, a dialog box with the message "Please, correct syntax error(s) before saving a macro." will appear and the line or lines with the incorrect syntax will be highlighted in red. Click OK in this dialog box, make the corrections, and save again.

Table 1: Commonly Used Commands and Keystrokes

Statement or Keystroke	Description	Example
' (an apostrophe, also known as a single quote)	Indicates the beginning of a **comment**. Use comments to describe what a command does or how it functions.	**'**This key stroke will select the entire document.
% (percentage sign)	Acts as the **Alt** key	
^ (caret)	Acts as the **Ctrl** key	
+ (plus sign)	Acts as the **Shift** key	
Non-Printing Keys (Non-printing keys are keys on the keyboard that do not correspond to any of the typical (printable) characters like a,b,1,2, etc. They should be enclosed in curly brackets {}.)		
Enter, Delete, Home, End	Inserts these non-printing keys. Note the curly braces around each key name.	{Enter} {Delete} {Home} {End}

Statement or Keystroke	Description	Example
Up, Down, Left, and Right cursor keys	Inserts the cursor (arrow) keys	{Up} {Right} {Down} {Left}
Tab, Esc	Inserts these non-printing keys	{Tab} {Esc}
Function keys (F1, F2, F3, and so on.)	Inserts a function key	{F1} {F2}
SendKeys	Sends one or more keystrokes (including all the keys shown above) to the active window as if they were typed using the computer keyboard. **Requires double-quotes around all keys or text entered.** *Note: Commands are **not** case-sensitive. The program automatically formats the line once it is completed.*	SendKeys "The lungs are normal in size." SendKeys "^p" SendKeys "%pq" SendKeys "{Enter}"
Wait	Pauses the script for the specified amount of time before executing the next command. The time is indicated in seconds. *Note: Start with longer waits between steps, then shorten the length as you become more familiar with the command.*	Wait 3 Wait .5
Beep	Generates the default Windows sound.	Beep
HeardWord	Causes *Dragon NaturallySpeaking* to behave as if the specified word, word sequence, or voice command was received by the recognizer. *Note: Words must be individually enclosed in double quotes, and are case-sensitive.*	HeardWord "edit", "vocabulary"

Sample Command

The following command sequence will type the line "The lungs are normal in size.", select the entire document, and set the font to bold. Then, after a 0.5 second wait, the cursor goes to the next line and the beep sounds to indicate that the command executed successfully.

```
Sub Main

    SendKeys "The lungs are normal in size."
    SendKeys "^a"          'Selects entire document. Sends Ctrl+A.
    SendKeys "^b"          'Bolds entire document. Sends Ctrl+B.
    Wait .5
    SendKeys "{Enter}"
    Beep

End Sub
```

To Use an Advanced Scripting Voice Command:

1. Open the application you want to use.

2. With your microphone turned on, say the command name. The actions of the command take place on your screen.