



USER MANUAL

Version 1.3 - August 2022

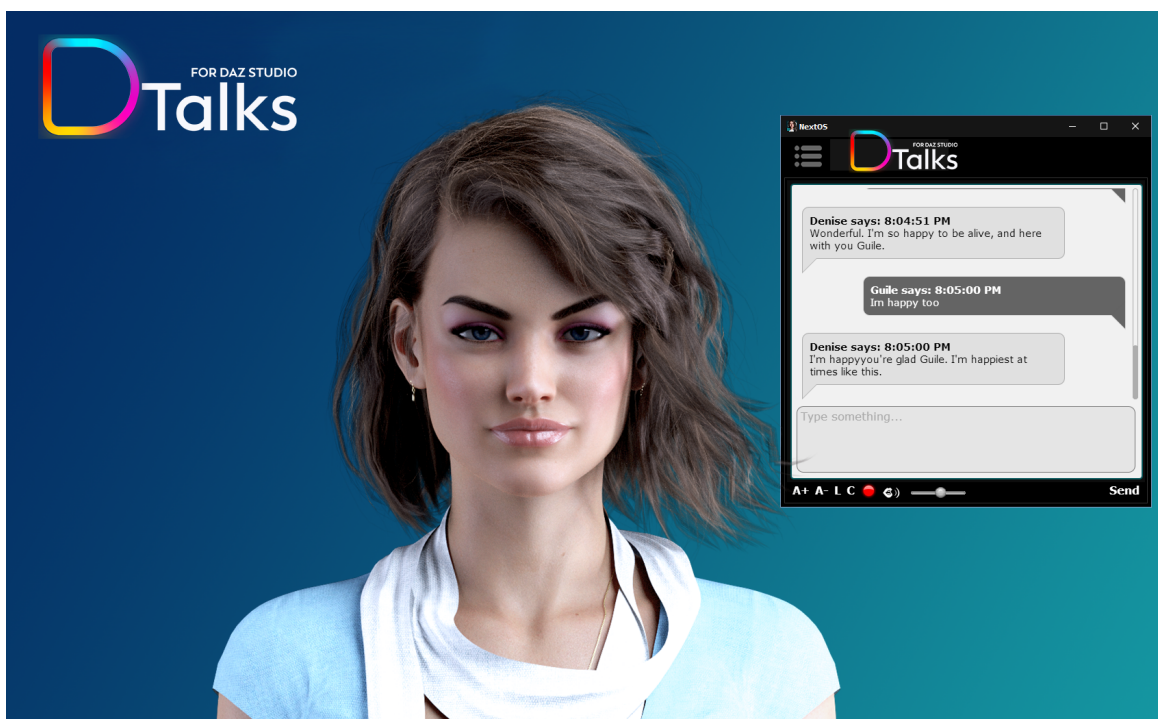
Summary

1. Welcome To D-Talks!	3
2. Before Installing D-Talks	7
3. First Steps	8
4. Configuring D-Talks After Installation	12
5. Voice Recognition	16
6. User's Manuals and Tutorials	59
7. D-Talks' Store	60
8. Operating D-Talks	66
9. Remote Controlling D-Talks Using External (3rd Part) Applications	68
10. Getting Help	68
11. D-Talks Main Interface	69
12. D-Talks Task Bar Menu	74
13. Web Navigation using Voice	76
14. Keyboard Simulation Module	77
15. Open Computer Programs, Folders, Applications, And Web Pages	77
16. D-Talks Learning Features	78
17. D-Talks' Overall Features	82
18. Troubleshooting	87

1. WELCOME TO D-Talks!

D-Talks! Software and its additional modules, avatars, and plugins are available on [NextOS DAZ3D website Store](#).

Thank you for purchasing D-Talks. You are now entering a new world of human-computer interaction, and we at NextOS.ai and DAZ3D are happy to have you with us in this new era of intelligent applications.



Note: Like the Character above, you may not find it on the D-Talks default installation, but they are available at the NextOS DAZ3D Store website, among several other free and paid Avatars.

With D-Talks, you can:

- Have beautiful Avatars with a transparent background hovering on your desktop, listening and talking to you!
- Resize the Avatar using the middle mouse button
- Rename D-Talks' Avatar name to any other you like
- Create new custom Avatars to work as D-Talks' main Interface by using the free Avatar Editor.
- Get a 140-page tutorial on how to use free 3D software to create realistic talking avatars to work within D-Talks (purchased individually at the DAZ Store or as part of the **D-Talks Bundle**)
- Create, edit, and add new knowledge to D-Talks' Artificial Intelligence using the Content Editor (purchased individually at the DAZ Store or as part of the **D-Talks Bundle**)

- Use your Voice to talk to D-Talks Avatar or dictate to any application you have installed on your computer, like Word, notepad, .pdfs, etc. The more you talk to D-Talks, the better the speech recognition becomes. **No additional fees or limits!**
- Transcript any .mp3 voice sound file into editable text
- Create your own custom Voice Commands to trigger actions
- Drag and drop any webpage text over D-Talks' Avatar to make it speak it aloud
- Navigate a webpage using voice (page down, page up, next line, next paragraph, etc.)
- Open any desktop shortcut application using voice (Open Word, Open Photoshop, etc.)
- Read aloud any text from any source
- Free Chat with D-Talks as with you are talking to a friend
- Use your voice to control the mouse and click/double-click anywhere on your Desktop
- Create and run Macros to automate repetitive computer tasks
- Connect D-Talks's Graphic Interface to third party software and have D-Talks to speak aloud messages received from this application
- Get a natural female text-to-speech voice for free to speak aloud text and responses coming from D-Talks or any other Windows application which works with SAPI5 TTS voices. **No additional fees or limits!**
- Use any additional voice (**SAPI5 format**) you may have installed on your computer with D-Talks
- Get additional female and male voices by visiting NextOS's D-Talks Store
- Get additional free and paid Avatars in D-Talks' Store
- Become an affiliate artist by creating new avatars and selling at NextOS's D-Talks' Store
- Both the Avatar, the Speech Recognition engine, the Text to Speech voice, and the Artificial Intelligence runs locally on your computer. This means ultra-fast recognition and responses and total privacy over your conversation data. No cloud services are used, and **no Internet connection is needed!**

A Brief History

D-Talks is a new product that was created based on the famous Virtual Assistant Denise, released in 2008 by NextOS.ai company. By that time, it was a unique software and a predecessor of most of the current digital assistants we know today. NextOS sold many copies of Denise worldwide, with people using it for many different purposes. We are glad we could also help many people with physical limitations to be able to use a computer and control home appliances by using voice. It was a big change in how everyone used and interacted with computers, smartphones, and automation devices.

NextOS paused its development in 2015 to dedicate our efforts to creating Human-Like Robots.

The success of Denise gave us the confidence and resources we needed to resume the work and create the D-Talks software in the format of an open Framework that offers users additional tools to create custom and realistic talking Avatars and the ability to add and customize the AI content to specific purposes.

D-Talks' abilities and cognitive functions will grow and improve with time, and we would like your help to feed her intelligence with new knowledge and help us improve her interface and usability. D-Talks is very unique software, different from anything you've ever seen. It's not only a digital talking character and assistant but also a virtual friend with whom you can talk about anything. Try to treat

her as if she was a real person. Sometimes she will amaze you, sometime you will have to be patient and teach her the right thing to do.

Different from Virtual Assistant Denise 1.9, with D-Talks and the new **Content Editor** Module, you can modify its AI content, add new text, customize your questions and answers, create custom realistic avatars with the new **Avatar Editor**, and use it as the Graphical Interface to third party applications adding speech recognition and voice and much more.

NextOS.ai is building D-Talks to be an open AI platform and Framework, so regular users, companies, or software integrators will have the tools to customize her to meet their specific needs and expectations fully.

It's important that you take some time to get used to this new way of interacting with your computer, so we really advise that you read this manual and the help files provided with D-Talks, and constantly visit NextOS's DAZ3D Store to check for new tutorial videos and new features.

One of the most important things is understanding how Voice Recognition works with D-Talks. Voice Recognition is not perfect yet. It is improving every day and NextOS.ai experts are working hard with other voice technology companies to improve this technology the most. Don't forget you also need a good microphone and a silent place to get better results.

D-Talks' uses a local Speech Recognition engine, and this is a great advantage because you can work with D-Talks even without an Internet Connection, and because it runs locally on your computer, the results are much faster as it does not need to reach a remote server.

With its embedded Speech Recognition, D-Talks will try to understand every single word you say. This mode is used for dictating new documents or e-mail body content. Dictation Mode depends on several factors, like User Training, good Microphones, quiet ambient, and a good computer processor.

You will take some time to feel comfortable using Voice Recognition, but as soon as you get used to it, you will probably never get back to your keyboard and mouse!

Different from the former Virtual Assistant Denise 1.9 version, D-Talks! Artificial Intelligence is not focused on Assistant tasks, like checking e-mails, getting the latest news, running applications, and managing your appointments. These features were removed from this version and will be replaced with modern Cloud services. Although you can talk to her about anything, understand that her free chat and learning capabilities will improve with time. Don't expect her to answer all your questions correctly. Think of D-Talks as a very smart young person you, as her master, need to teach and take care of.

Although we have exhaustively tested D-Talks, we know that bugs will appear. If you happen to find any problem running D-Talks, please use the form at the bottom of our webpage at www.DTalks.ai to request help.

We believe in a couple of years, you will hardly believe she's not a real human being. You will have a very important place in this improvement process, feeding her artificial brain with new knowledge and sending us your suggestions.

What the Future Holds

These are features that we are currently working on or have on our wish list:

- Home Automation integration to control home appliances
- Integration with both Google Home and Amazon Alexa devices
- Word Studio (to convert a large amount of text to .mp3 files) with real-time translation
- Integration with Cloud services like Google, Microsoft, IBM and Amazon for e-mail integration, weather forecast, personal calendar, search results and display web pages content
- APIs to connect D-Talks to third-party services like Microsoft, Google, IBM, Amazon, and OpenAI, AI21 Labs and other similar cognitive services
- Integrate D-Talks with modern AI Datasets like GPT-3, AI21 Labs, BlenderBot 2.0, EleutherAI, etc. to experience a very natural conversation
- Upgrade de Avatar engine to use the amazing realistic **Epic Unreal MetaHumans**
- Improve the voice quality by using modern **Neural Machine Learn** generated voices.
- Improve Speech Recognition by using Cloud Services
- Use D-Talks to create professional presentations using realistic Avatars.

Thank You,

NextOS.ai Team - August 2022

DTalks.io (website under construction)

2. BEFORE INSTALLING D-Talks

Minimum Software and Hardware Requirements:

Hardware:

- Intel Core processors or AMD Ryzen processors
- 4 Gig RAM Memory
- Sound Board and Speakers
- Headset Microphone (for better Speech Recognition) or a unidirectional noise-canceling microphone.
- 8 Gigabytes free Hard Disk space available

Operational System:

- Windows XP
- Windows Vista and 7
- Windows 10
- Windows 11
- MAC OS by using a Virtual Machine like Parallels (Parallels not included)

Software:

- Windows Media Player 12 or newer
- Windows Internet Explorer

Recommended Software and Hardware Requirements:

Hardware:

- * Intel Dual Core or AMD Turion x2 processors
- * 16 Gig RAM Memory
- * Sound Speakers
- * Noise Cancelling Headset Microphone
- * 8 Gigabytes free Hard Disk space available
- * 4 GB dedicated Video Board
- * 1280 x 1024 Desktop Video Resolution

Operational System:

- * Windows 7, Vista, 10 or 11

3. FIRST STEPS

3.1 Installing D-Talks

Get the latest install file from the link below:

[D-Talks Installation file](#)

Note: Reinstalling D-Talks.

If for some reason you need to **reinstall DTalks**, you only need to completely delete the folder \DTalks. When running the installation file, you may get a warning that the installer detected a previous installation and asks if you want to update it. Please ignore this message and click no to continue the installation.

Note: I forgot my username or password.

If after a new installation or any other reason you cannot login to D-Talks because you forgot your username or password, please close D-Talks, open the folder \DTalks\database and double click the file "reset.bat". Run D-Talks! and chose your user name and password again.

Note: When I chose a different Avatar in the Setting option, the avatar does not show up

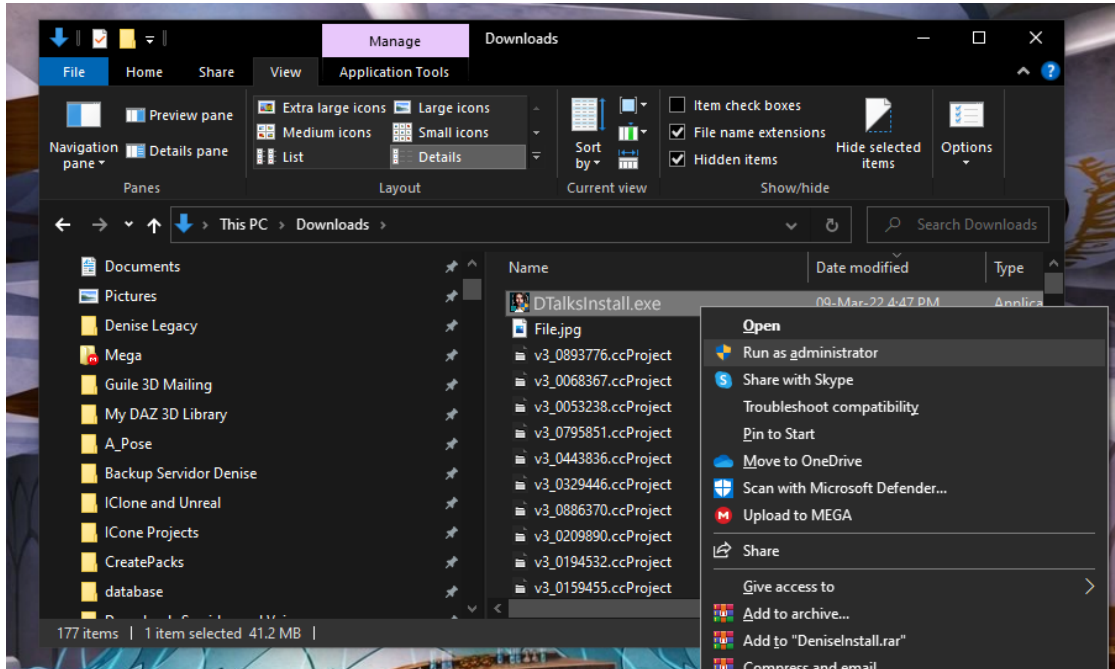
If after changing the Avatar, it does not shows up on your screen, go the the chat box and type "SHOW"

Important Note: Before installing D-Talks, please disable any Anti-Virus and Firewall software, like Norton, AVG, McAfee, or Kaspersky.

NextOS.ai assures you that no Virus, Spyware, Malware, or any other intrusive files will be installed on your computer. The firewall and anti-virus process is required by the Speech Recognition installation engine. You can turn both firewall and antivirus on again after D-Talks' installation is complete.

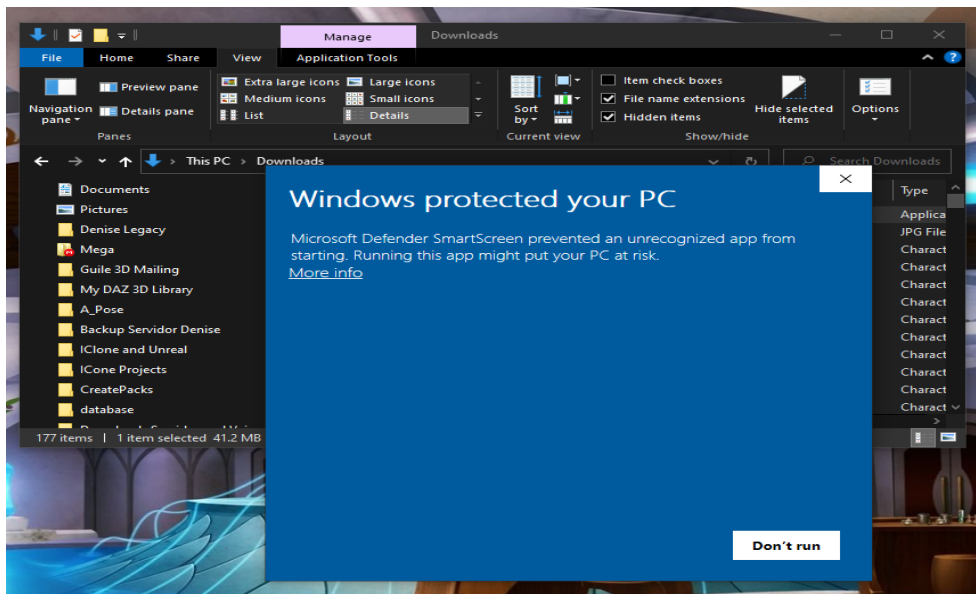
Just after you purchase a D-Talks license at the DAZ3D Store, you will get access to the Installation file called **DTalksInstall.exe**. Run this application to download all files necessary for her full installation.

Important Note: To start the installation, right-click on the **DTalksInstall.exe** file and choose "**Run as Administrator**". This will open a window asking for your e-mail address. Please fill in any valid e-mail address. Your email address will not be shared to anyone. We will only use it to send you updates and relevant information. Also, **it is recommended** that you close other applications that may be running, like web browsers or text editors. Also, check if you have at least **8 GB free** on your installation hard drive.

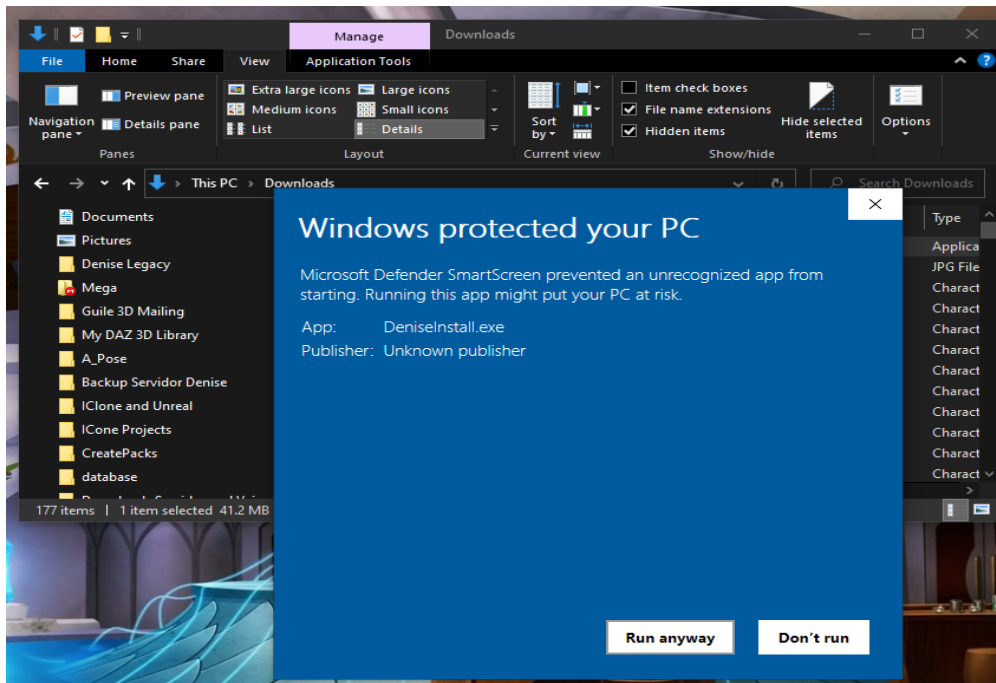


If you would like to transfer your licenses to another computer or purchase additional licenses with a discount, please send a request to support@denise.ai

IMPORTANT: If Windows shows you a Message Window to allow or block D-Talks, please click “Allow”. Also, Windows Firewall can show you another Message Window, please always click on the “Allow” or “Unblock” options.



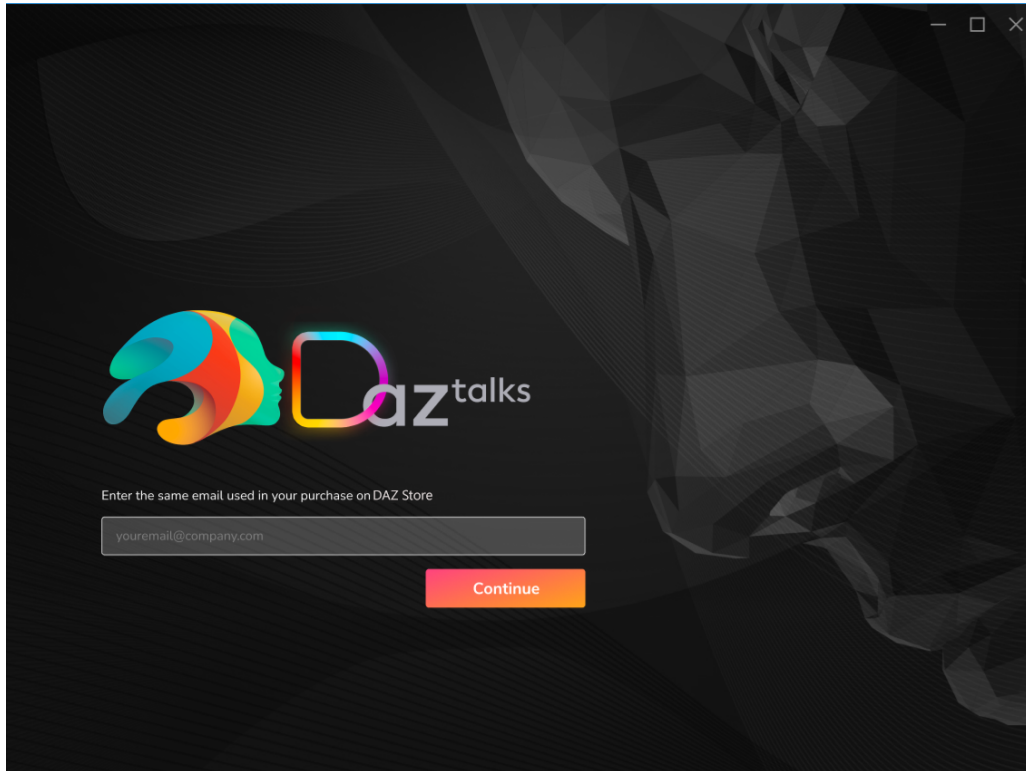
On the screen above, click “More info”



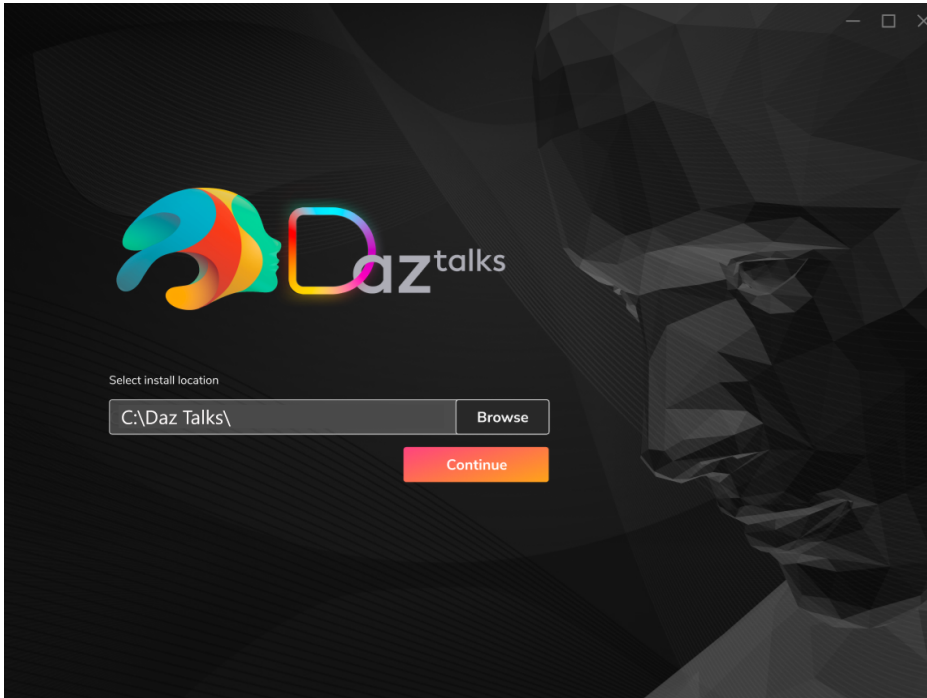
Click on the **“Run anyway”** option. This is a normal Windows message when running an executable file for the first time.

The installation process can take from 20 minutes to one hour, depending on your Internet access connection speed. Please don't interrupt this download process even if the download window seems to be frozen or not responding. Also, avoid running any other application at the same time.

TIP: If you are under Windows Vista or Windows 7, there is a protection system called UAC (User Account Control) that can try to block the execution of D-Talks. If Windows shows you a message to Allow D-Talks' application, please do it so.

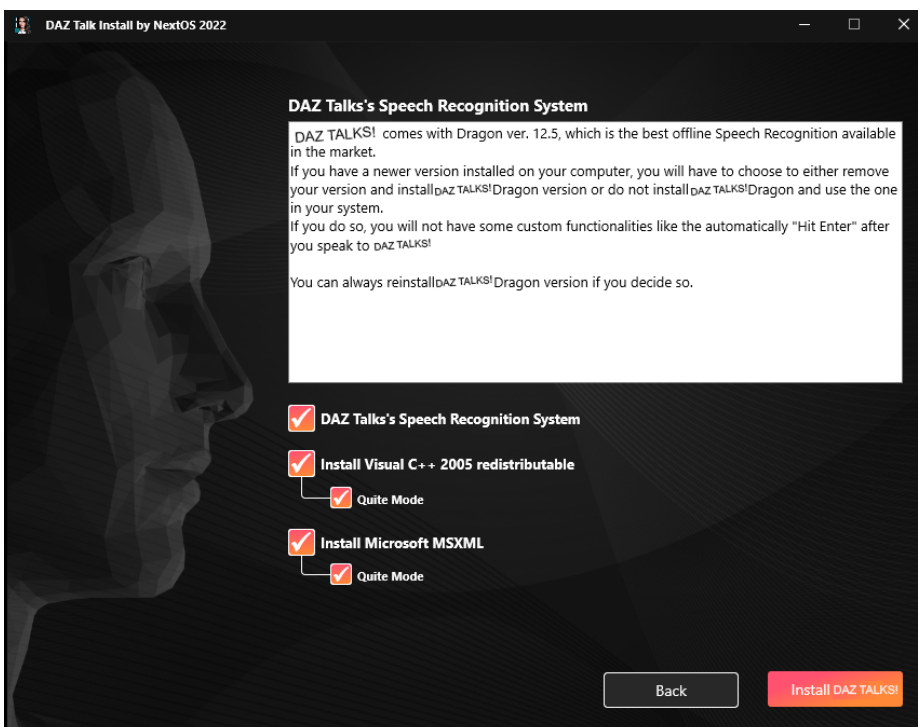


Select a folder on your computer to install D-Talks. **We recommend** installing it in the C: drive as it generally is a fast **SSD-type** drive. This will greatly improve your experience with D-Talks' avatar animation and faster Speech Recognition responses. If this is not possible, you can install D-Talks on any other HD drive.



During the installation process, you will be asked to install or not the Speech Recognition engine. By default, all checkboxes will be checked.

Important Note: You may already have the Visual C++ and the MSXML installed on your computer. You may also already have the Speech Recognition engine installed. If this is the case, you may experience problems when opening D-Talks for the first time. If this problem happens, run the installer again and **uncheck all the checkboxes** from the windows below.

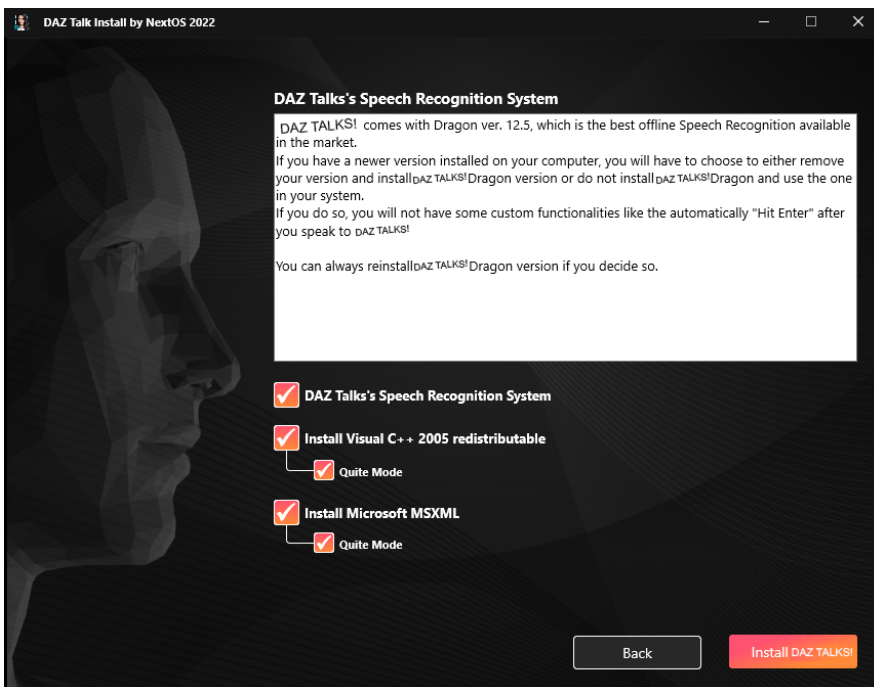


By clicking on the “Install D-Talks” button, the installation will start.



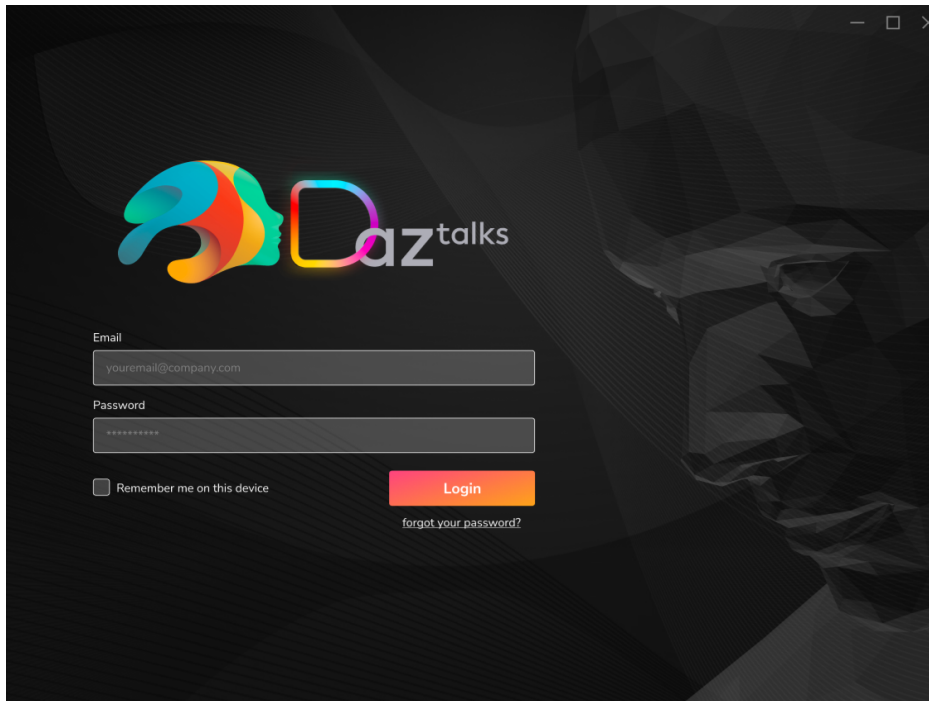
3.2 Troubleshooting the Installation

If at some point you note that the progress bar has stopped, you may need to cancel and start again by changing the options below. For instance, you may already have the C++ installed on your system. Try unchecking this option as well as the suboption “Quiet Mode”. It may also be necessary to uncheck the “Install Microsoft MSXML” to complete the installation successfully.



4. CONFIGURING D-Talks AFTER INSTALLATION

After installing all files, a window will show up on your desktop screen asking for your login and password. Feel free to choose any name for the user and for the password.



After the first login, D-Talks will check your audio system, speakers, and microphone and ask you a few questions to get to know you better. She will only use this information to improve the natural conversation with you.

Important Note: *NextOS.ai assures you that no personal information (e-mail, name, address, etc..) collected during installation will be used for any other purpose other than getting you a better natural conversation experience.*

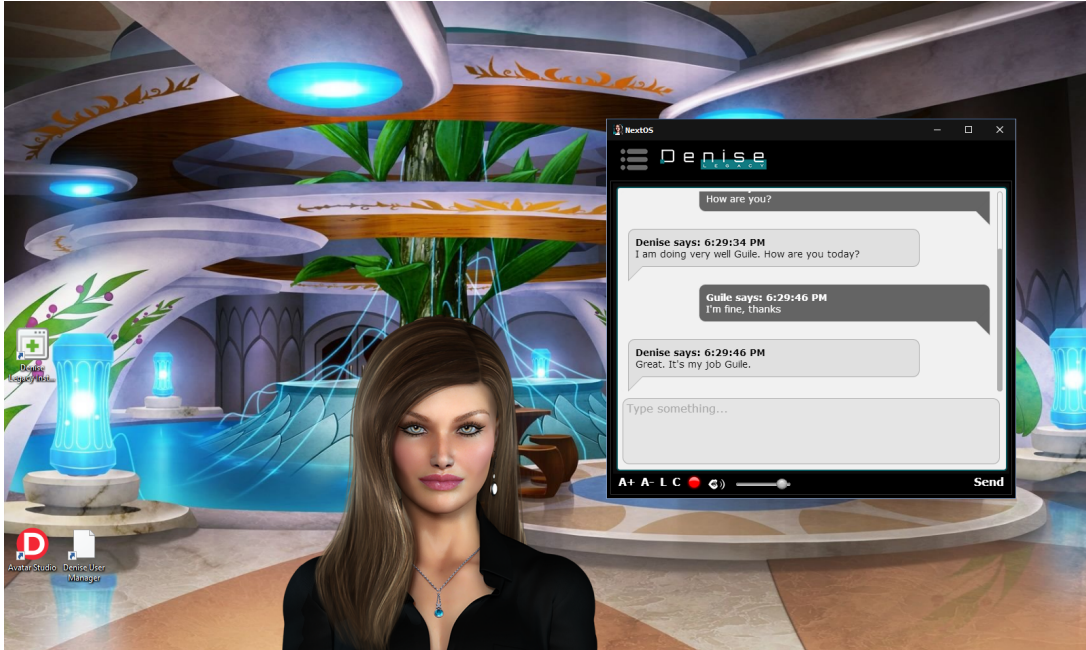
4.1 Initial Screen

D-Talks! main interface is basically the Avatar and the Chatbot window. The Avatar shown below is one of the several characters available for you to choose from, purchase at the NextOS DAZ3D Store, or that are offered for free. The Avatar below is called “Denise2015” and comes as the default Avatar. You can choose a different Avatar by clicking on the Chat Window upper left menu button.



Left Double-click on the avatar to minimize it. Use the middle mouse scroll wheel to change the avatar to any dimension. Left Double-click again on the avatar to maximize it.

Note: In this tutorial, you may find some references to the name “**Denise Legacy**” and this name in some images used in this tutorial. This is because D-Talks was created upon NextOS Virtual Assistant Denise and Denise Legacy core code.



At this stage, you can already type anything in D-Talks' chat box and hit enter to start a conversation. You still will not be able to use Speech Recognition as there is voice training you need to do.

4.2 Initial Setup

Before start talking to D-Talks, there are a few configurations you can do. To do so, click on the upper left menu icon as shown below:



This will open D-Talks' Settings Menu:



From the image above:

1. Chose a name for your new digital friend
2. Choose the avatar you'd like to use. D-Talks comes with one avatar, and there are several additional free and paid avatars in D-Talks' Store

Note: If after changing the Avatar, it does not shows up on your screen, go the the chat box and type "SHOW"

3. Select the Avatar's Resolution (quality of the avatar). Keep in mind in some older computers, choosing the biggest resolution can slow down the avatar's animations and lip-syncing. Remember also you can change the avatar's size by double-clicking on the Avatars' face, or by using the middle scroll mouse button.
4. Select the Text to Speech voice you'd like to use. D-Talks comes with one free female voice, and you can purchase additional voices in D-Talks' Store. If you'd like to get voices from a different seller, be sure you get TTS voices compatible with the Microsoft SAPI5 protocol. Additionally, you can set up the volume and speed of the talking.

TIP: The ideal Graphic Quality Resolution makes D-Talks' face movements, animations, and lip-syncing during talking run smoothly. Try changing from one resolution to another until you find the best one for your computer.

Important: Note that if you choose a TTS voice other than in English, D-Talks will still be using an Artificial Intelligence database in English. To make D-Talks speak in your desired language, you will have to create your own Artificial Intelligence database in the desired language. Use D-Talks' **Content Editor (sold at NextOS DAZ3D Store)** to create your custom knowledge base sets in any language.

Volume

Controls de Volume of D-Talks' voice

Speed

Controls de Speed of D-Talks' voice

Animation Delay

Sets the delay in milliseconds for D-Talks' animation, like smiles, blinking, upset faces, etc. If you feel that D-Talks' animations are too slow or too fast, use this setting to adjust it.

When starting, show:

Choose D-Talks' display size for when she starts. Note that for every resolution (800 X 600, 1024 X 768, and 1280 X 1024) there are always two default display sizes, minimized and maximized. You can also change D-Talks' size by using the mouse middle scroll button.

TIP: To change between small and big display sizes, double click on D-Talks' face.

5. VOICE RECOGNITION

On the "Dictation" D-Talks' Settings Menu:

It is important that you check if your microphone and speakers are turned on and correctly configured. (Not too loud or not too quiet)

An easy way of doing that is from your Windows Start menu; choose "Control Panel" and "Sound" (or "Hardware and Sounds")

In the window that opens, you have a "Playback" and a "Recording" tab.

Check Sound Speakers

Click on the "Playback" tab to check your speakers. You have to have at least one speaker font enabled. Click on it and then on the "Properties" button, to set its "Levels" properties.

Checking Microphone

Click on the "Recording" tab to check your microphone. You have to have at least one speaker font enabled. If you say something now using your microphone, you should see its graphic equalizer changing its level while you talk.

Click on the microphone name and then on the "Properties" button, to set its "Levels" properties.

Ambient Noise

It is **very important** that you don't have too much ambient or background noise while using D-Talks with Voice Recognition. This noise can come from background music, TVs, radios, air conditioners, and other people talking.

5.1 Voice Recognition Initial Training

Before starting using Speech Recognition with D-Talks, you need to train your voice by reading a few sentences and creating a user profile. This stage is necessary because D-Talks uses a local embedded Speech Recognition engine. This is a great advantage over using a cloud-based similar system because

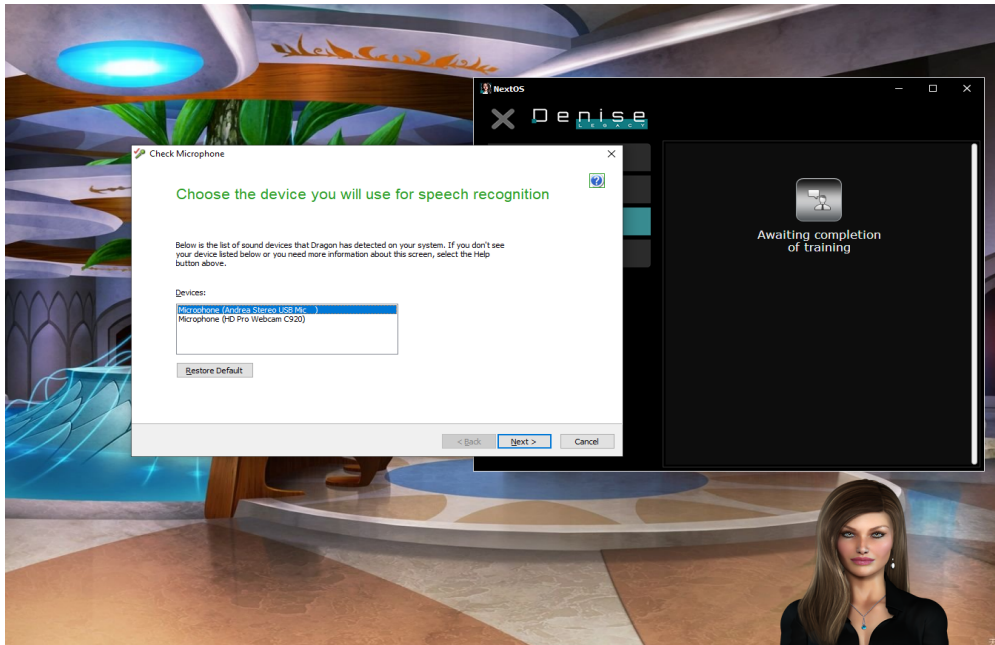
1. You don't need an Internet connection to speak to D-Talks
2. Because it runs locally on your computer, you get much faster responses. (The powerful your computer is, the faster and more accurate results you will get)
3. The more you talk to D-Talks, the better the Speech Recognition becomes
4. You can create custom commands to execute specific tasks
5. You can operate your mouse and simulate a mouse click and double-click on any position of your computer screen
6. You can turn it on and off by speaking keywords like "Go to Sleep" and "Wake Up"
7. You can navigate a webpage (page up, page down, go to start, go to the end, line down, paragraph down, etc.) by using your voice
8. You can dictate not only to D-Talks but to any other application installed on your computer. For instance, you can create a new Word or .pdf document entirely using only your voice
9. Different from most the cloud speech services, with D-Talks, there is no limit to the text you can dictate. No additional fees or costs.
10. Use the Auto Transcribe Tool to automatically translate voice audios to text. With this tool, you can use small voice recorders to record your text, ideas, and documents while in the run, and later on, transcribe your recordings to text. No more typing!

To run the Initial Voice Training, click on the **"Dictation"** option from the Setup Menu.



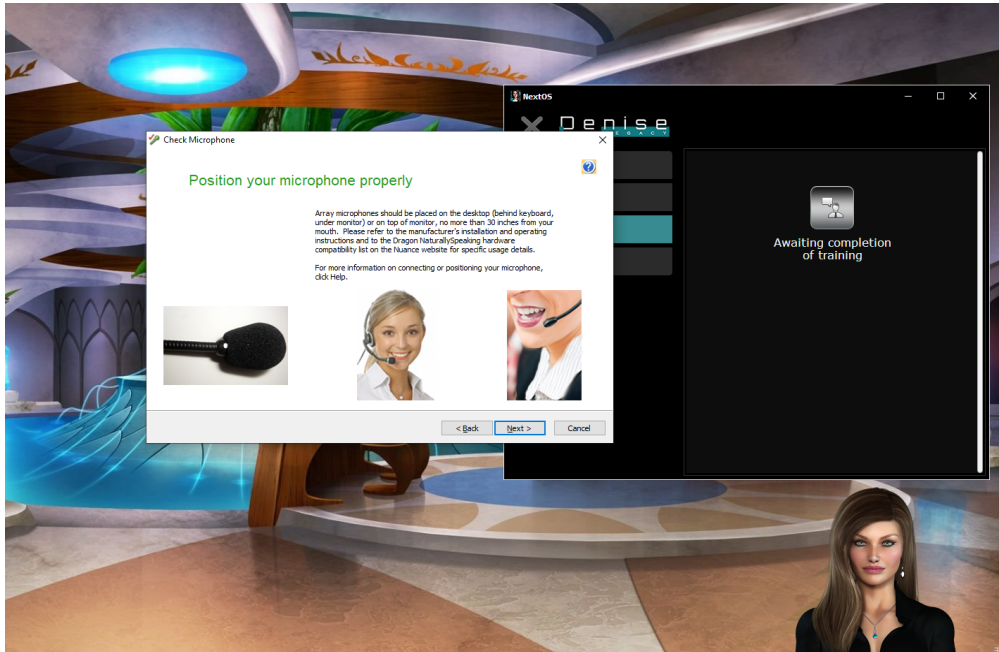
1. Select the appropriate microphone type from the “Dictation Source”. If you are not sure what the type of your microphone is, leave it as it is.
2. Select your Region.
3. If you are not an English native speaker, select the appropriate accent
4. Click the “Start” button

Your computer may freeze for a few seconds until the “Check Microphone” screen shows up.



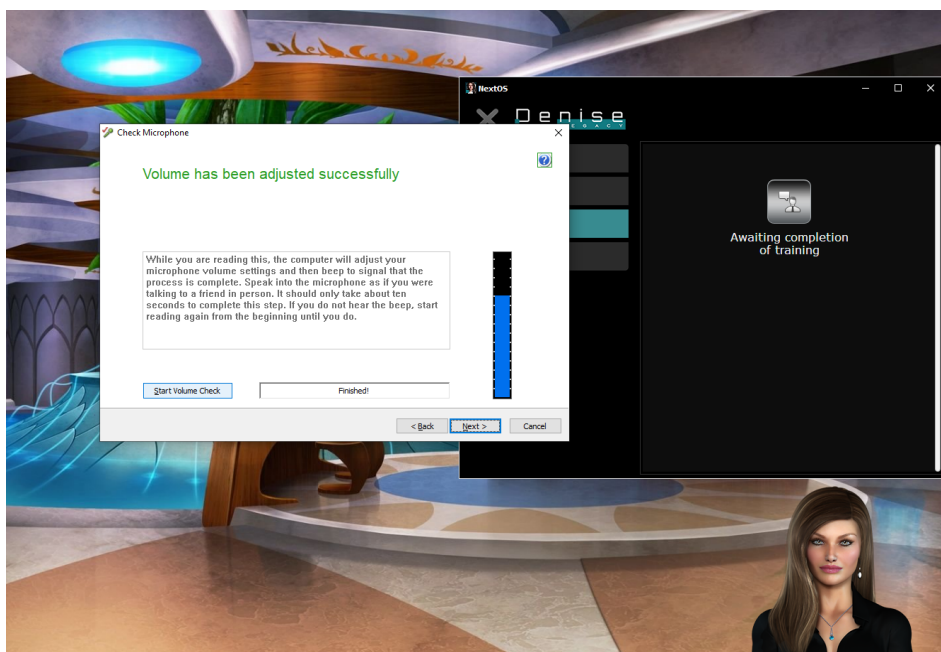
In this window, you may select the best microphone you have attached to your system. Avoid using WebCamera’s microphone, as this type is not recommended for Speech Recognition.

Click “Next” for the next step.



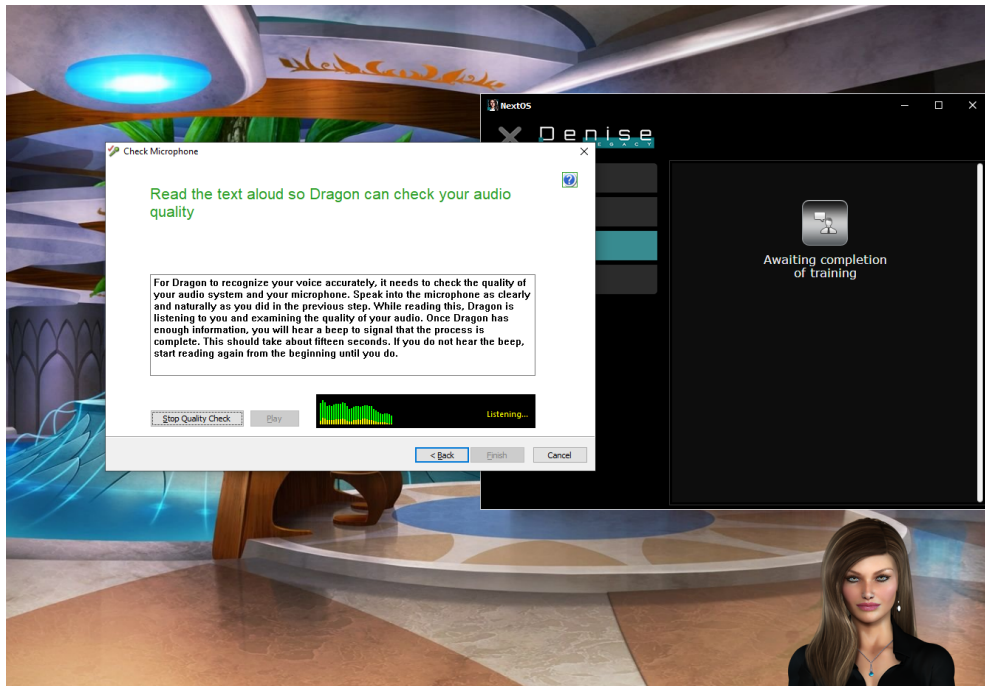
Follow the instructions to correctly position your microphone. Don't worry if you don't have a headset microphone. Today there are great external microphones that will work just as well as headsets. The most important thing is not to use a web camera or embedded notebook microphone. Those will work, but you will not get the best of what D-Talks' Speech Recognition can offer.

Click "Next" to advance. In this new window, click the "Start Volume Check" to have your microphone volume adjusted to the best level. Read the sentences. You will hear a "Beep" when this process has finished.

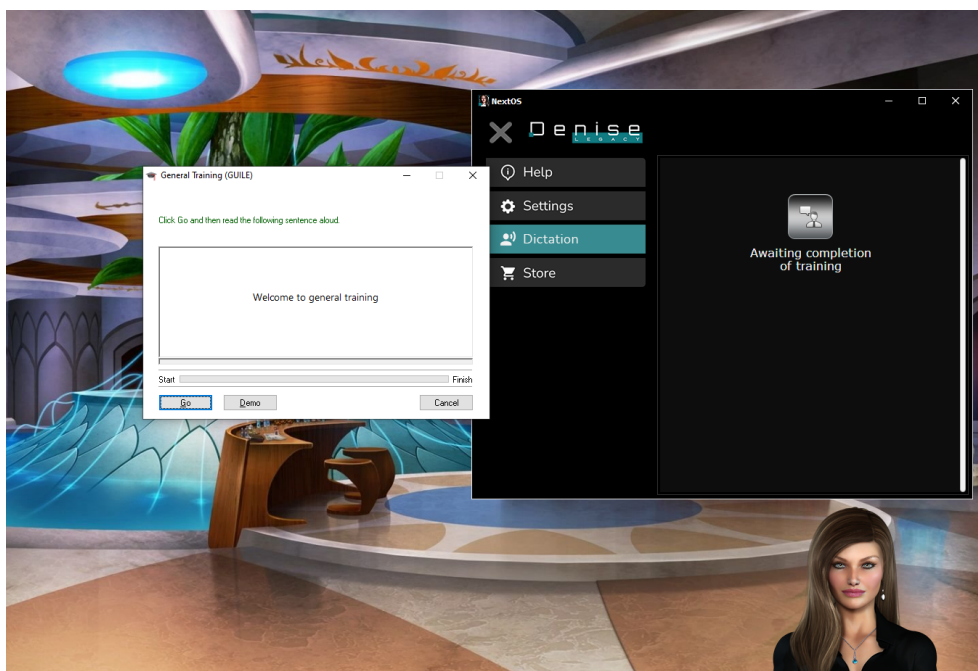


Click the “Next” button. In this step, the Speech Recognition engine will check your audio system quality and fine-tune it to get the best results.

Click the “Start Quality Check button”. Read the indicated sentence. You will hear a “Beep” when your audio system is configured. Click the “Finish” button.

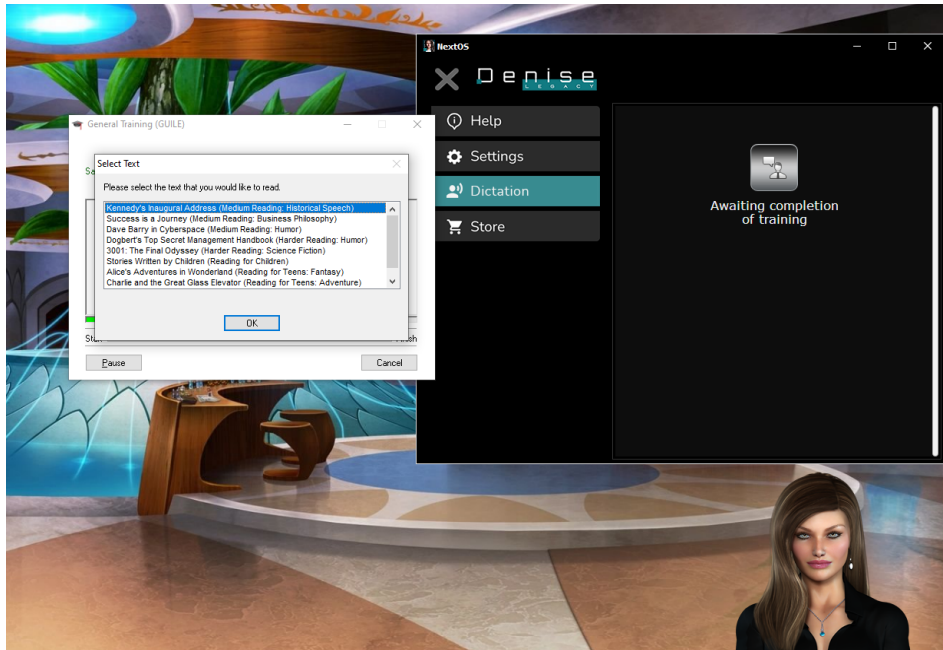


The “General Training” pop-up windows will show up on your screen. Click the “Go” button and read the indicated sentences.

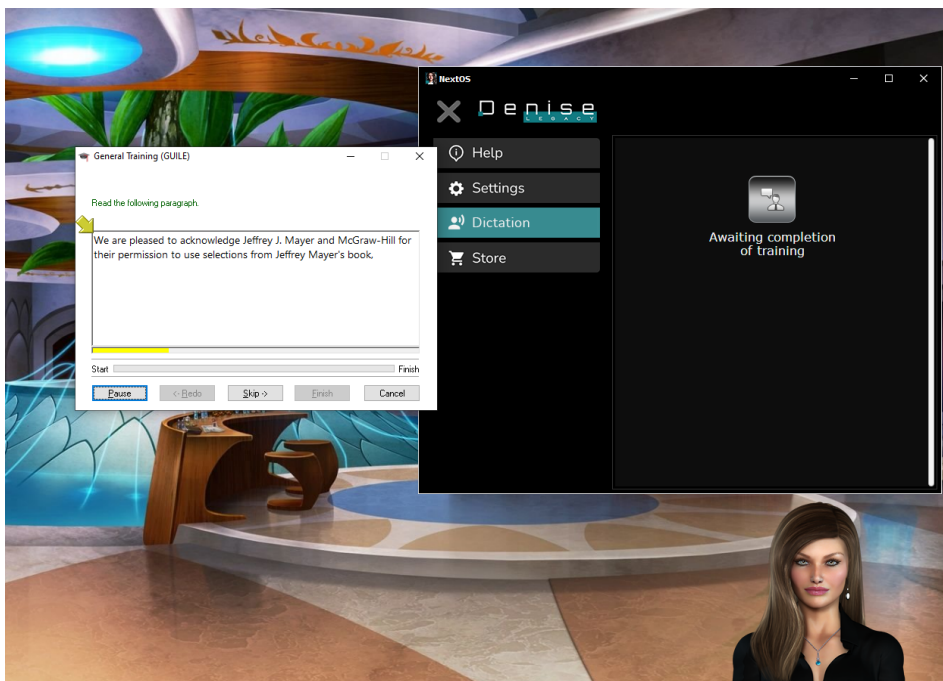


A few other windows will show up for you to read. You can pause this process by clicking on the “Pause” button.

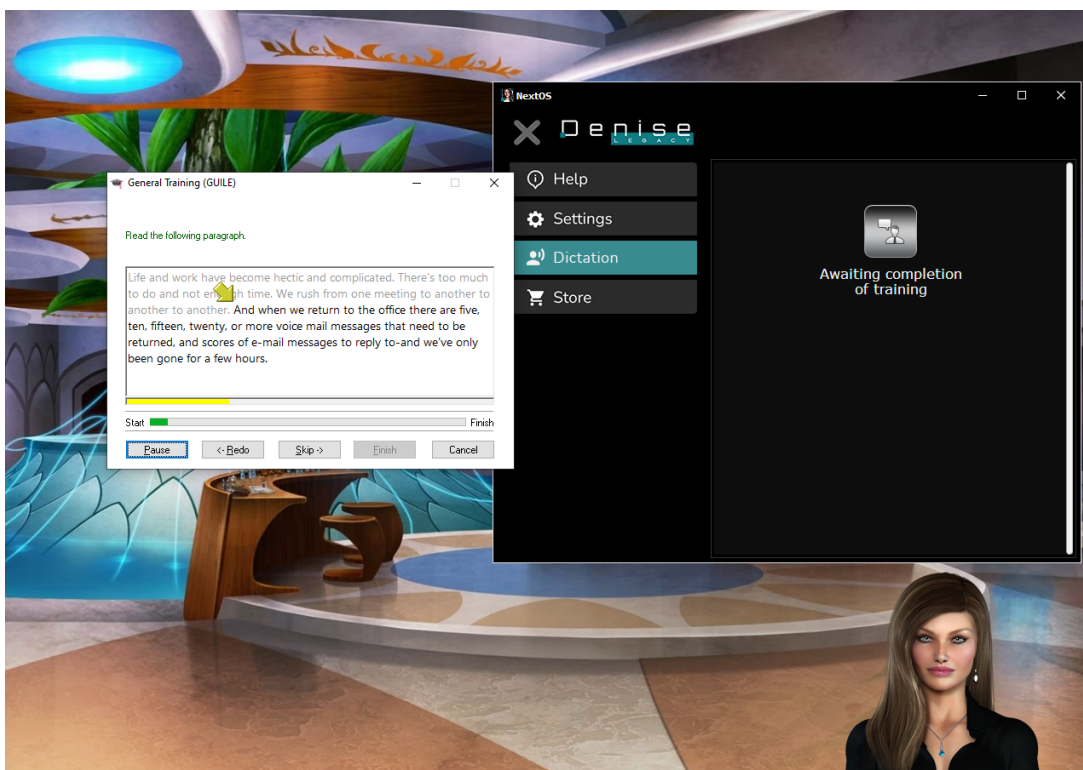
Finally, you will get a window asking you to choose a short story. Click the “Ok” button to start reading and training the recognition engine. You can choose any text you want. The “Hard Reading” options will be longer but will improve a bit the recognition process.



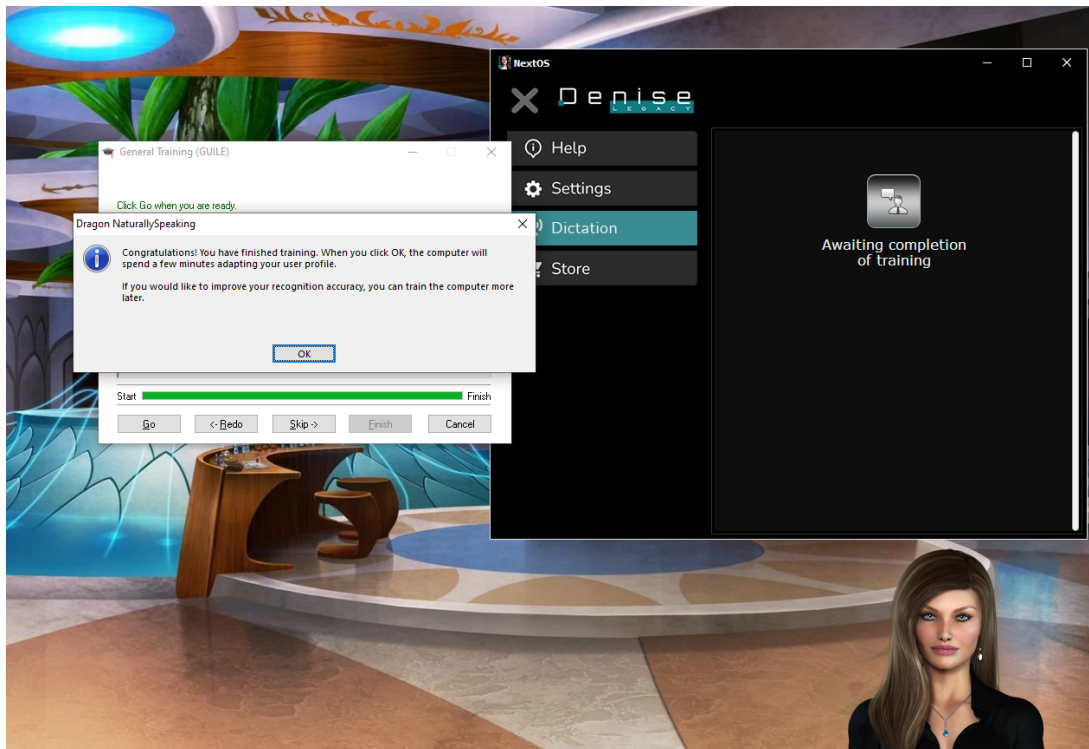
Read the indicated sentences normally, the same way you talk to a friend. If the yellow arrow stops, you need to repeat the word until the process continues. If for some reason the Yellow arrow doesn't move, click the “Skip” button. This generally happens with non-native English Speakers.



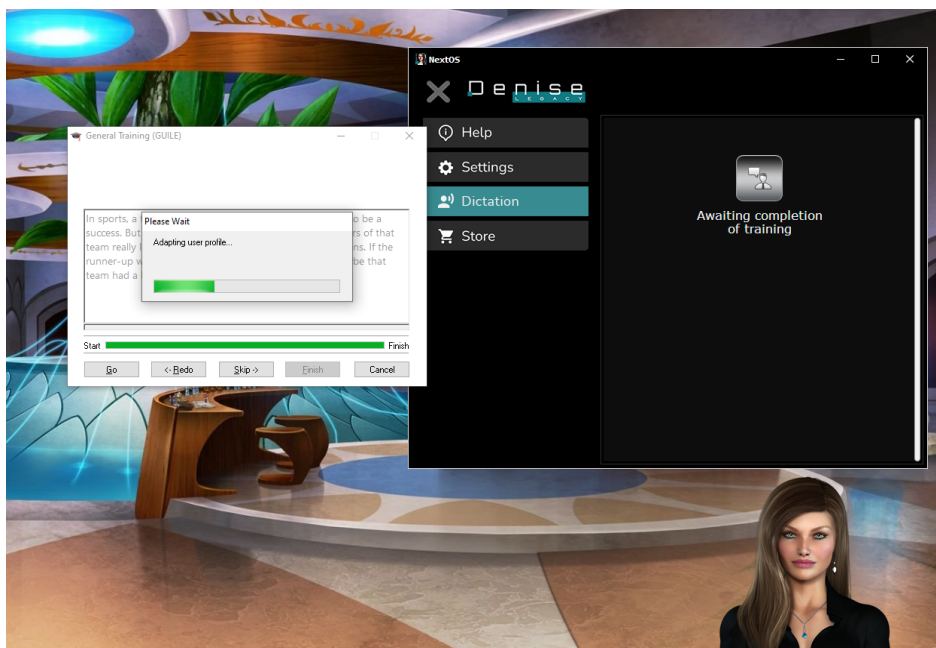
Continue the reading process. You can always hit the “Pause” button when needed.



When the training process is completed, a prompt message will congratulate you. Click “Ok”



The Speech Recognition engine will now process all the data and create your user profile. This process can take a few minutes.



This step completes the voice training process. Note that you can, later on, read additional stories to improve even more the speech recognition accuracy. We will check this process in a while.

D-Talks will close the voice training process and tell you that she can hear you. Note also the green round icon. When green, D-Talks is listening to you.

Important Note: While talking to D-Talks, if you note that she is recognizing what you speak, but the text does not appear in her chat box, just left-mouse click on the chatbox (the box with the “Type something” text) to give it focus.



5.2 Turning Voice Recognition on and off

You can check the status of the Speech Recognition engine by the color of the small circle located at the bottom of the chatbox.

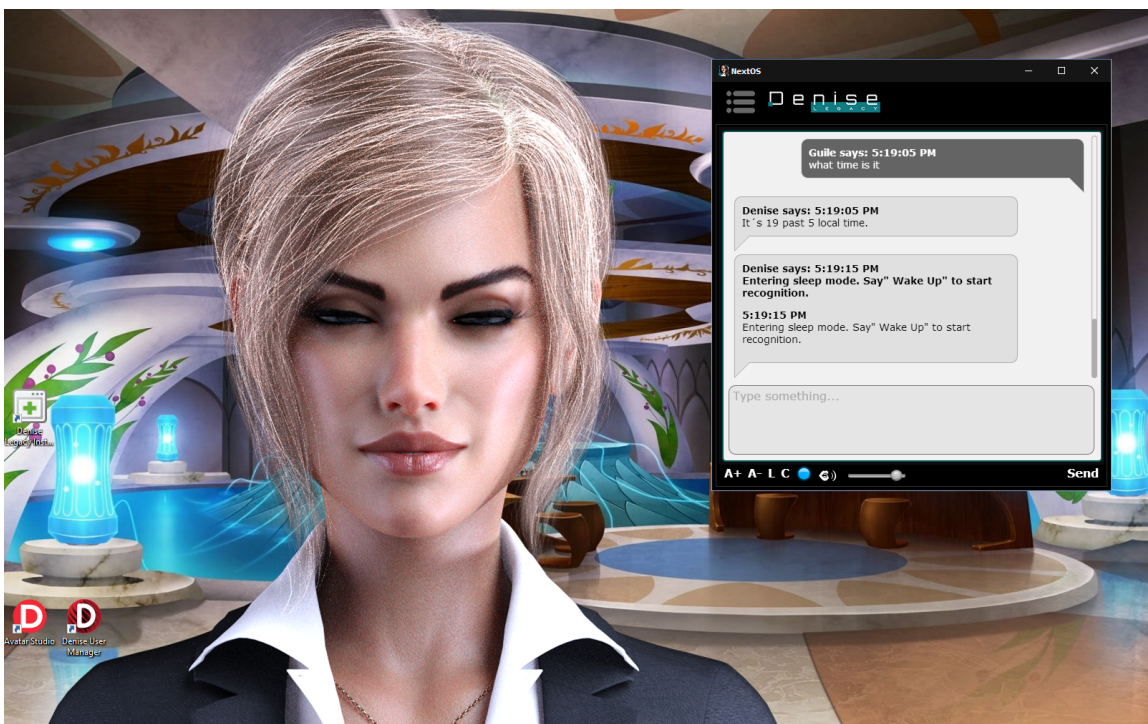
- Blue = Speech Recognition is on but not listening
- Green = Speech Recognition is on and listening
- Red = Speech Recognition is off

These are the methods you can use to turn the Speech Recognition on and off:

1. Speak “Wake Up” to turn the Speech Recognition on if the small circle is Blue
2. Speak “Go to Sleep” if you want to turn the Speech Recognition off when the small circle is Green
3. Use the mouse left-click on the small circle to turn the Speech Recognition off if it is green or blue
4. Use the mouse left-click on the small circle to turn the Speech Recognition on if it is red



In the image above D-Talks is listening to everything you say.



In the image above the Speech Recognition engine is on, but D-Talks is not listening.



The Speech Recognition engine is off in the image above because the user has left-clicked on the small circle.

Left-click on the small circle to turn the Speech Recognition engine on again.

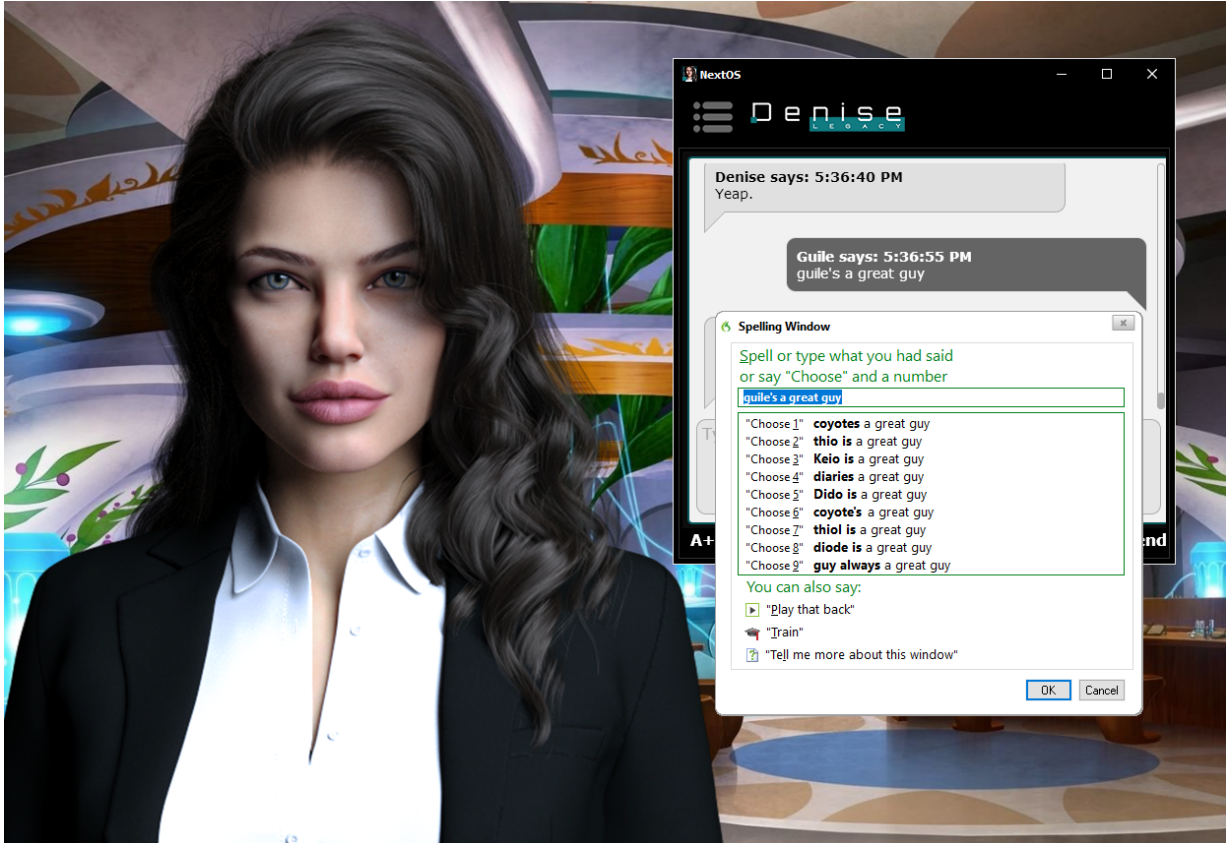
5.3 Correcting words not recognized by the Speech Recognition from within D-Talks

While speaking to D-Talks, the Speech Recognition engine may misunderstand a word or phrase. You can correct it by speaking “Spell That” or “Correct That” just after you note that the text was transcribed wrong in the chatbox.

Correcting speech errors by speaking “Spell That”

Sometimes the Speech Recognition engine does not understand the words or sentences you spoke. When this happens, speak “Spell That” right after you finish speaking the sentence or word. By doing so, the “Spelling Window” will show up.

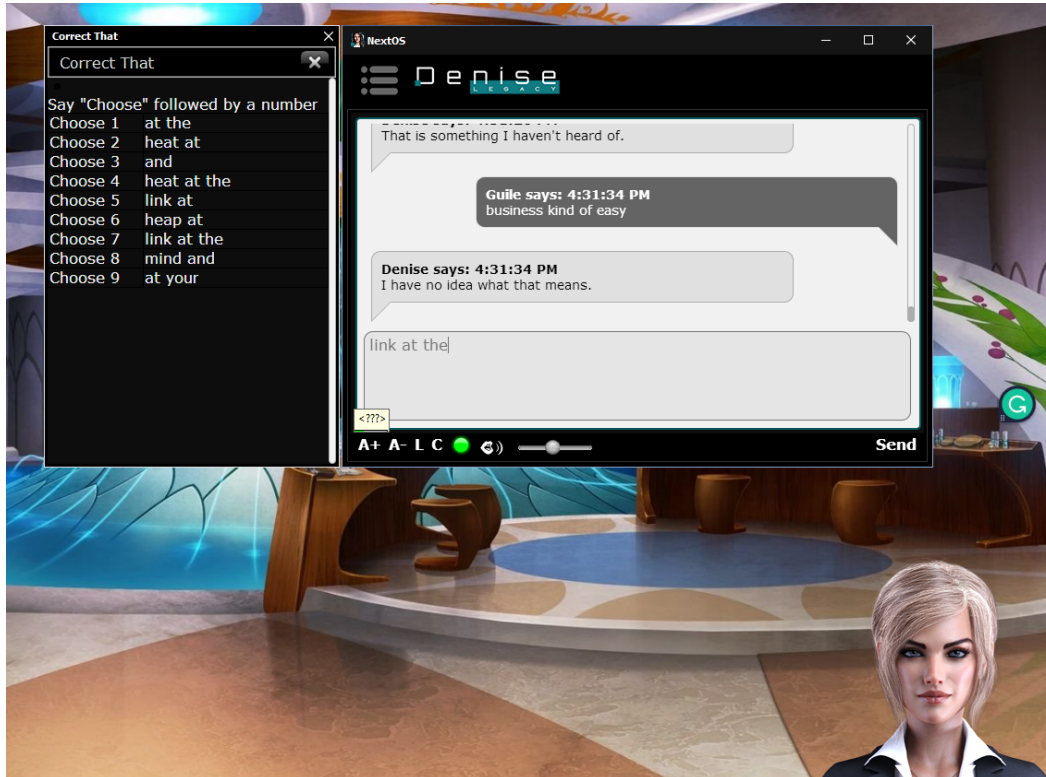
If you see the right transcription within this window’s options, speak “Choose (number)”. You can also type the word or sentence and click the “Train” option at the button in this window.



Correcting speech errors by speaking “Correct That”

Similar to the previous option, you can speak “Correct That” when you check the transcription wrote wrong words or sentences. By doing so, the “Correct That” window will show up next to D-Talks’ Interface with several alternative text or phrases. If one of them is what you meant to say, speak “Choose 1” or “Choose (the correct number)”

If none of the options from this window is correct, you will have the chance to train specific words and phrases by following the instructions in the next chapters.



5.4 Improving Speech Recognition Accuracy by doing additional Speech Training

Additionally to the initial speech training you did, you can repeat this training by reading extra text.

To do so, please follow the instructions below.

There are two methods to improve the speech recognition accuracy within D-Talks.

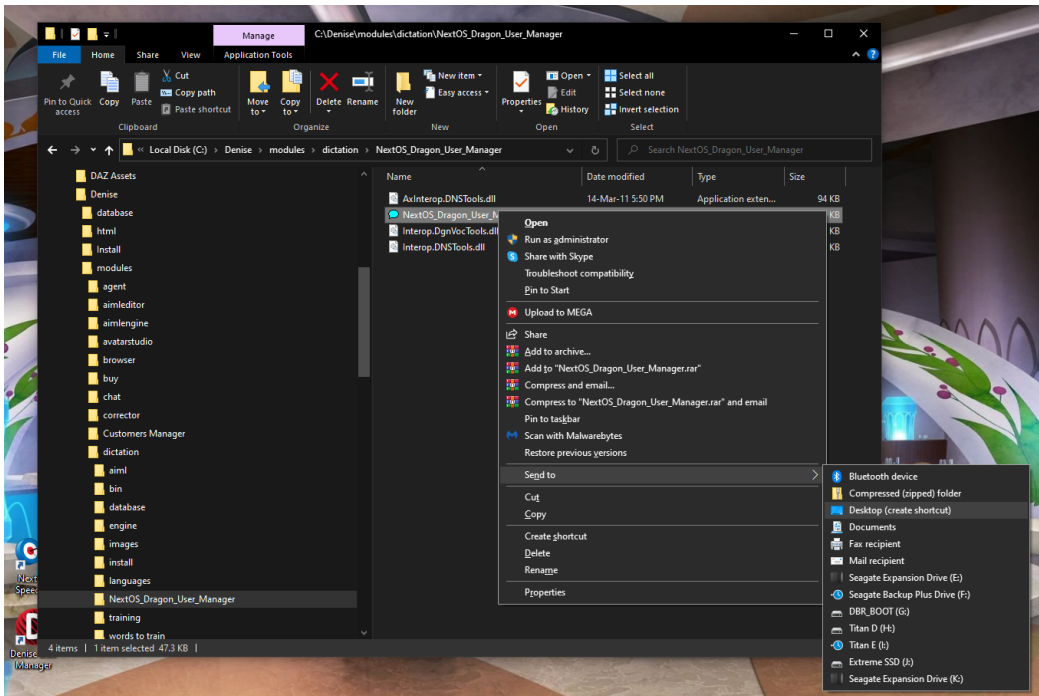
A - Methode 1: Run D-Talks with the Speech Recognition disabled (click on the circle at the bottom of D-Talks' chat to turn it red) and skip to "[Performing the Additional Voice Training](#)" section on this tutorial

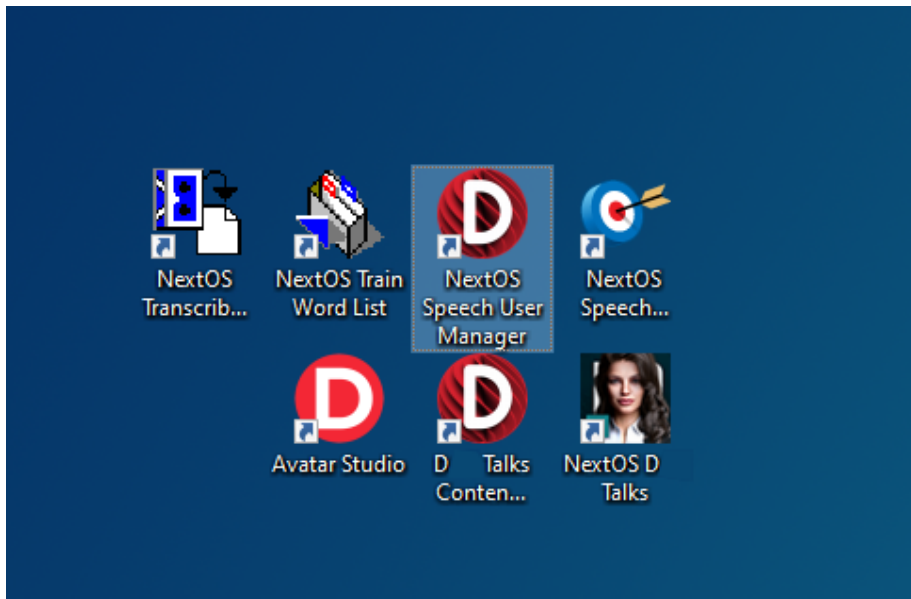
B - Methode 2: With D-Talks, not running, follow the steps below:

Open the User's Voice Profile

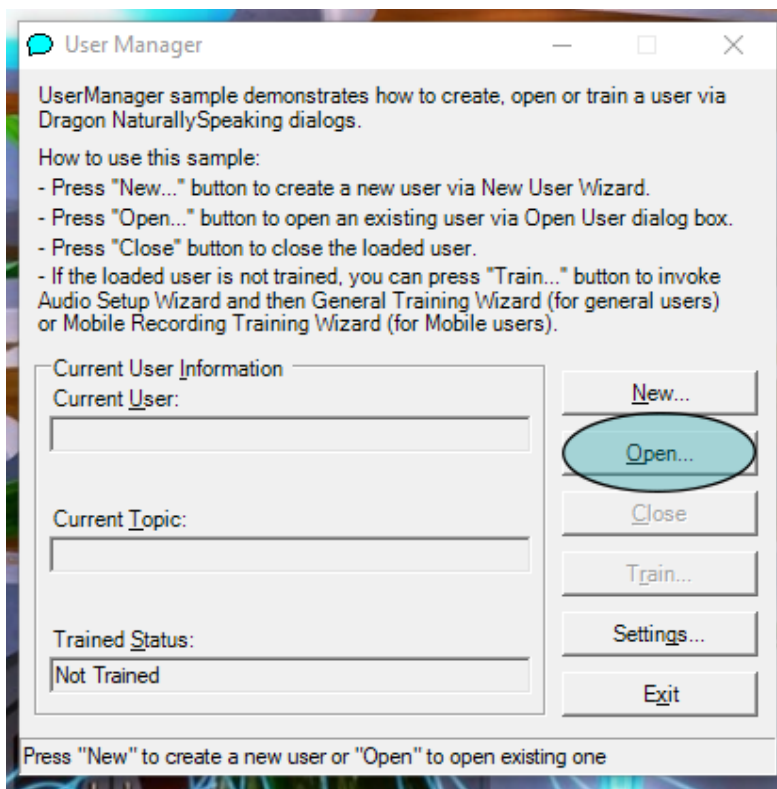
D-Talks comes with a speech tool to open a Speech User's Profile located in DTalks\modules\dictation\NextOS_Dragon_User_Manager\ folder. Open this folder and locate the file "**NextOS_Dragon_User_Manager.exe**" If you cannot find this module, please download it from the link https://www.dropbox.com/s/857v1h0he4zfzm0/NextOS_Dragon_User_Manager.rar?dl=0

Right-click on it and choose "Send to -> Desktop." This will create a shortcut on your computer desktop. You can rename this shortcut for a more legible name like "**NextOS Speech User Manager**"

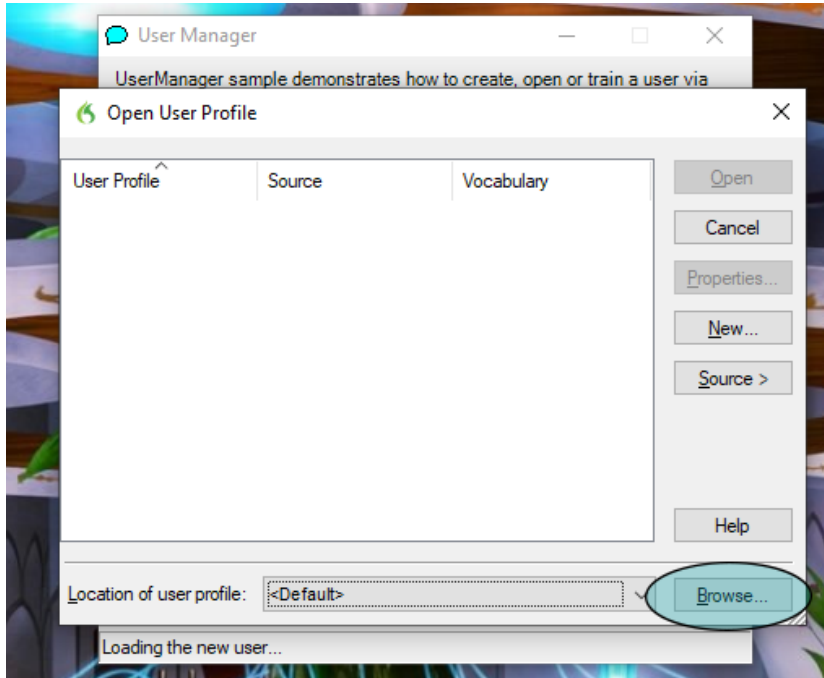




Double-click on this shortcut to open the “**User Manager**” windows.



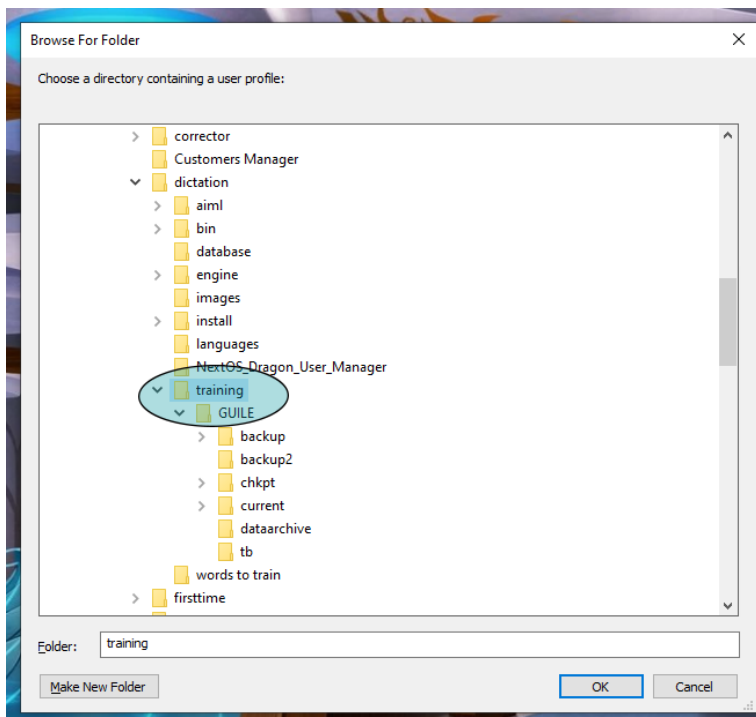
Click on the “Open” button.



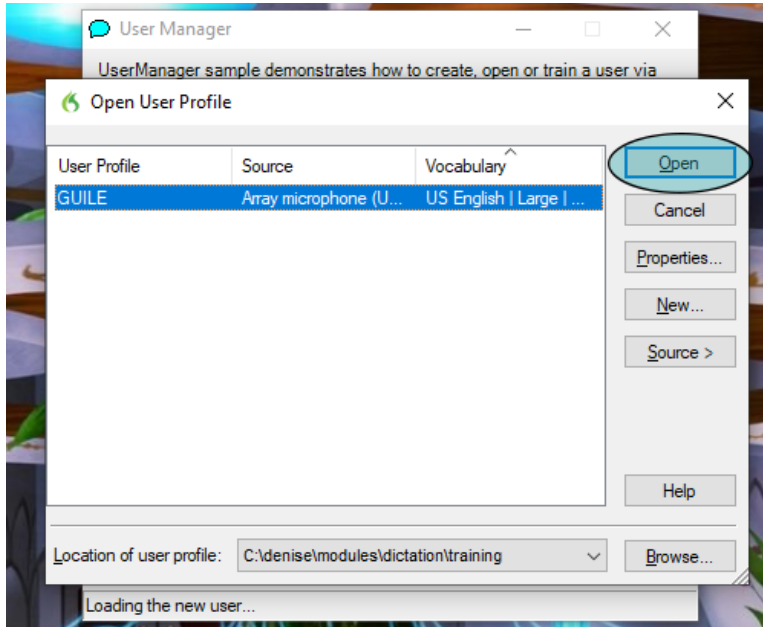
In the “Open User Profile” windows, click on the “Browse” button

In the browse window, navigate to DTalks\modules\dictation\training and click in the “Training” folder to select it.

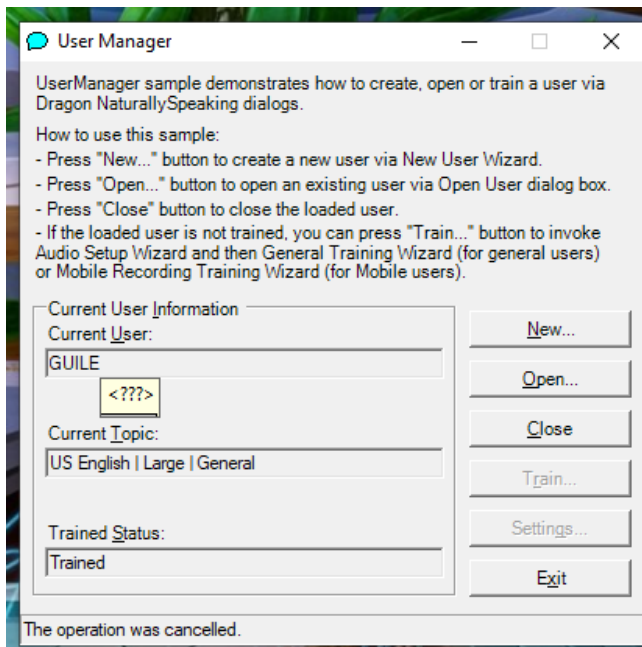
Important: Note that you may have installed D-Talks in a different folder other than in “\D-Talks”



Select your User profile and click on the “Open” button

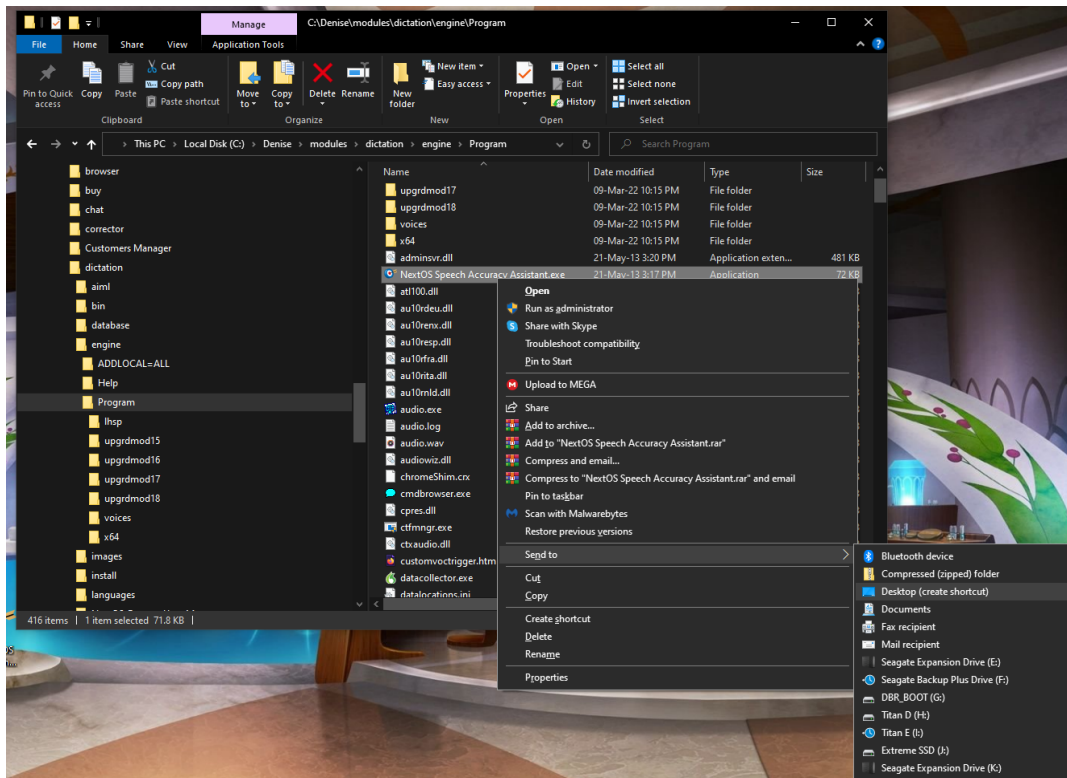


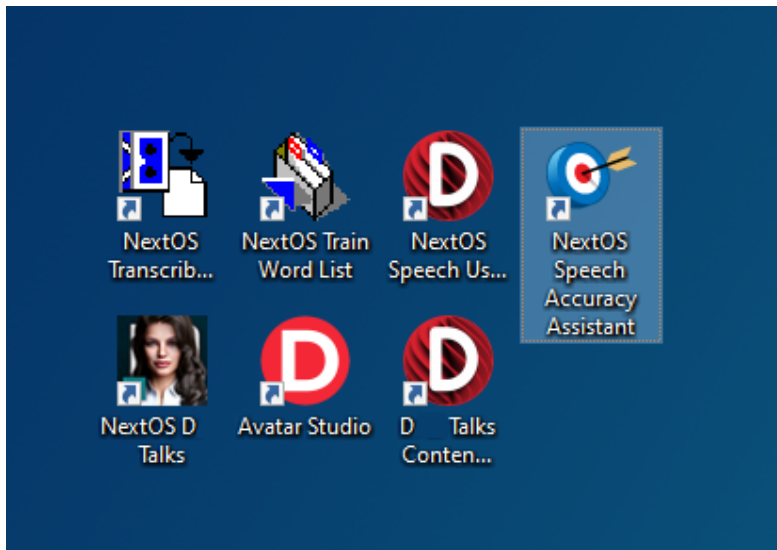
This will open your Speech User Profile, and now you can perform the additional speech training.



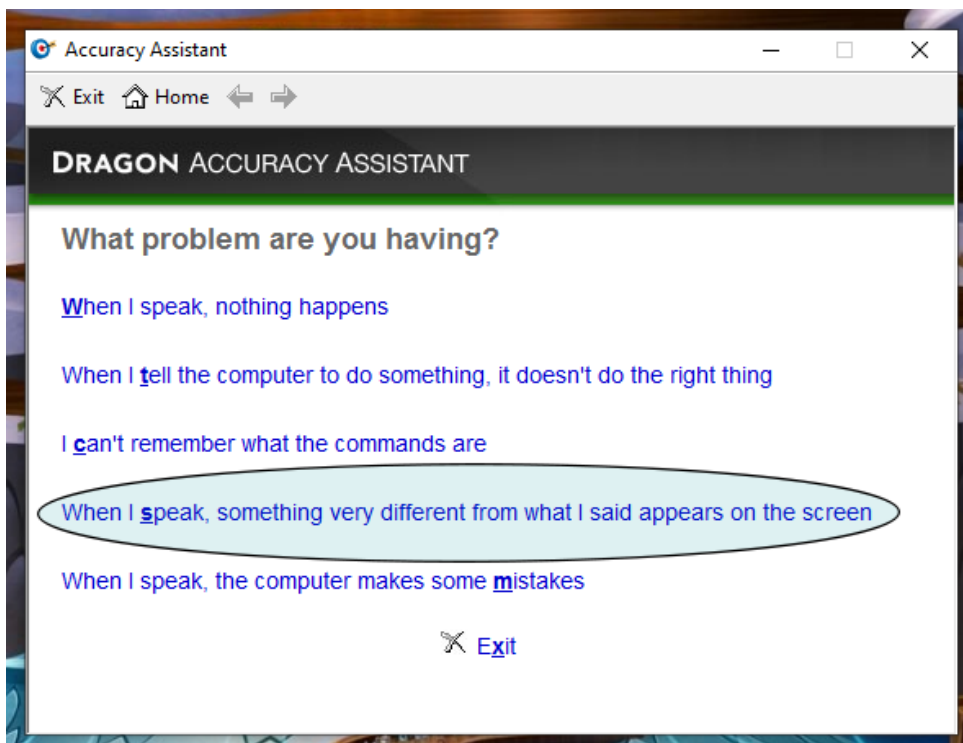
Performing Additional Voice Training

With your Speech user profile open or with D-Talks Running with the **Speech Recognition** disabled (click on the circle at the bottom of D-Talks' chat to turn it red), you need to run an additional application. To do so, open the folder \DTalks\modules\dictation\engine\program, and right-click on the file "**NextOS Speech Accuracy Assistant.exe**". If you cannot find this file, you can double-click and run the file "**assistant.exe**" located in the same folder. From the menu, click "Send to->Desktop (create shortcut)"

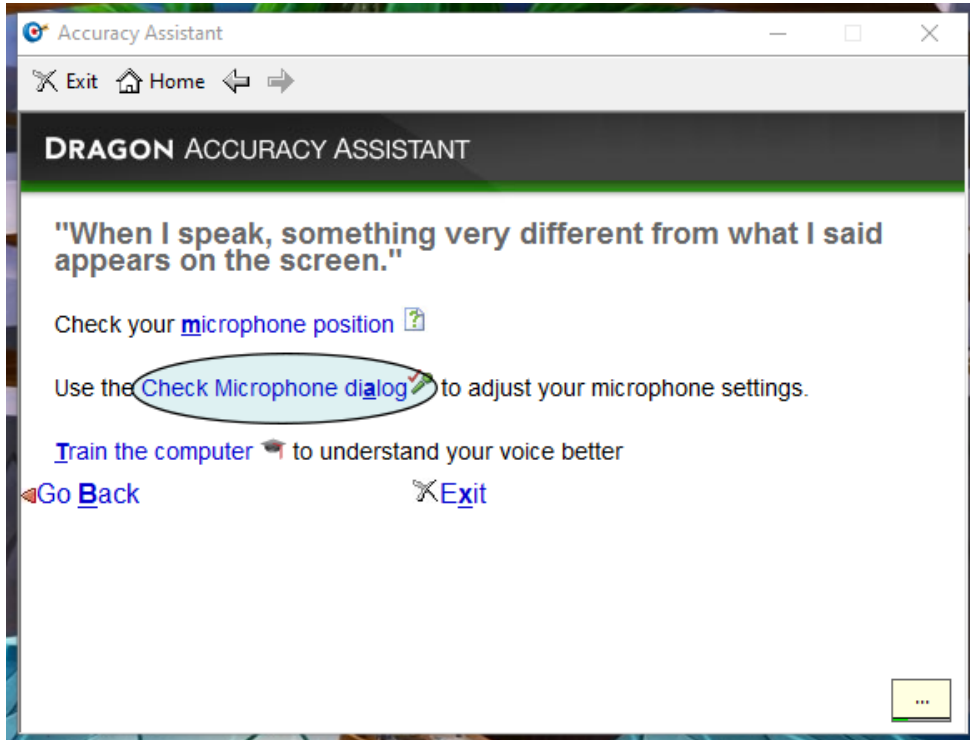




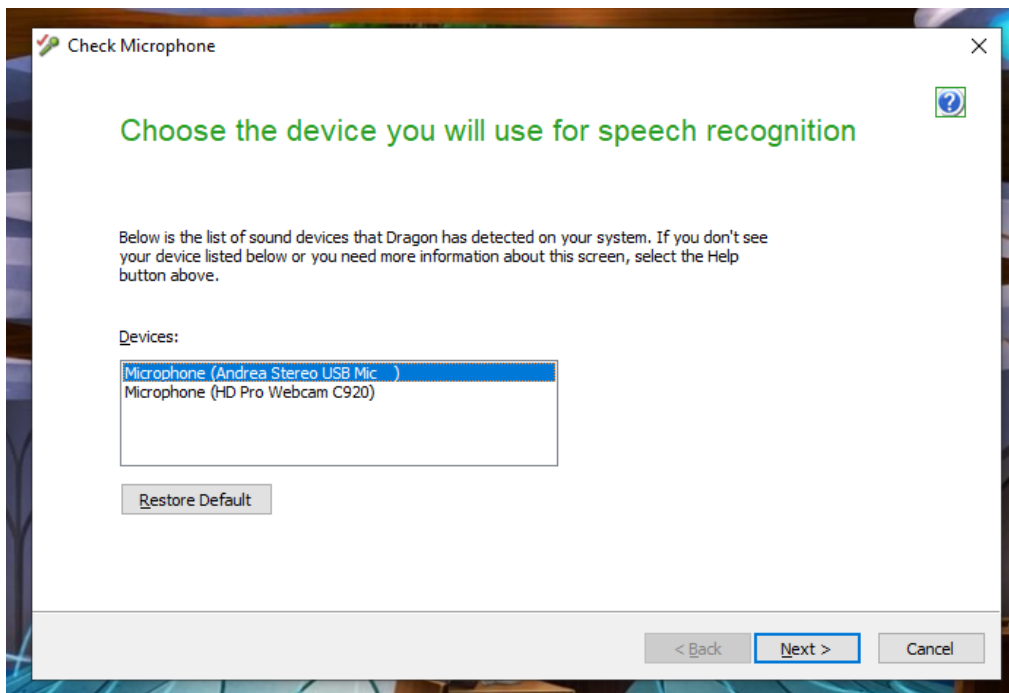
In the following window, click on the fourth option “**When I speak, something very different from what I said appears on the screen**”



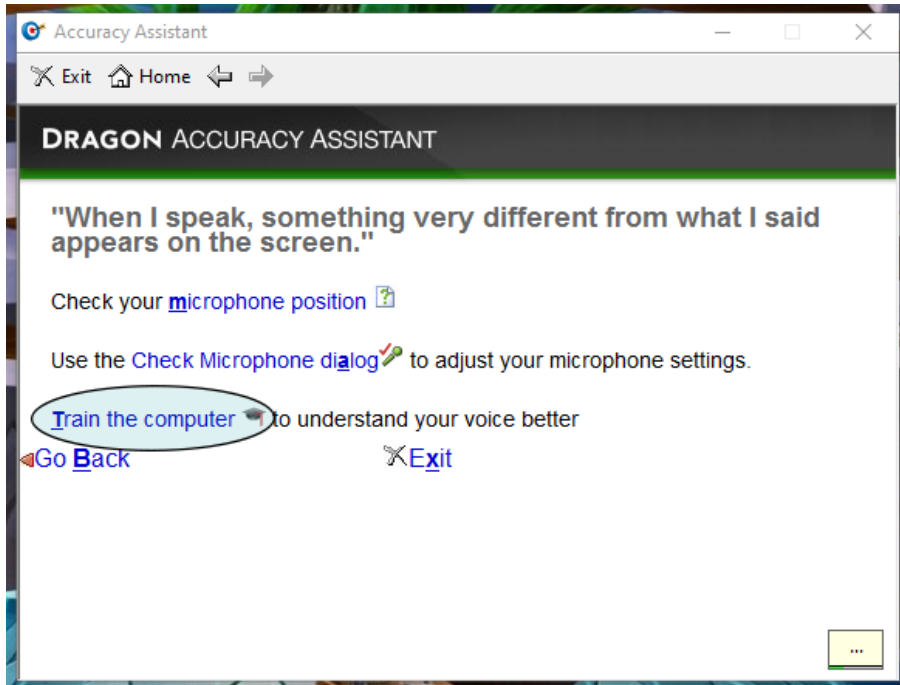
First of all, let's check if your microphone is adjusted correctly by clicking on the option “**Check Microphone dialog**” in the “**Accuracy Assistant**” window.



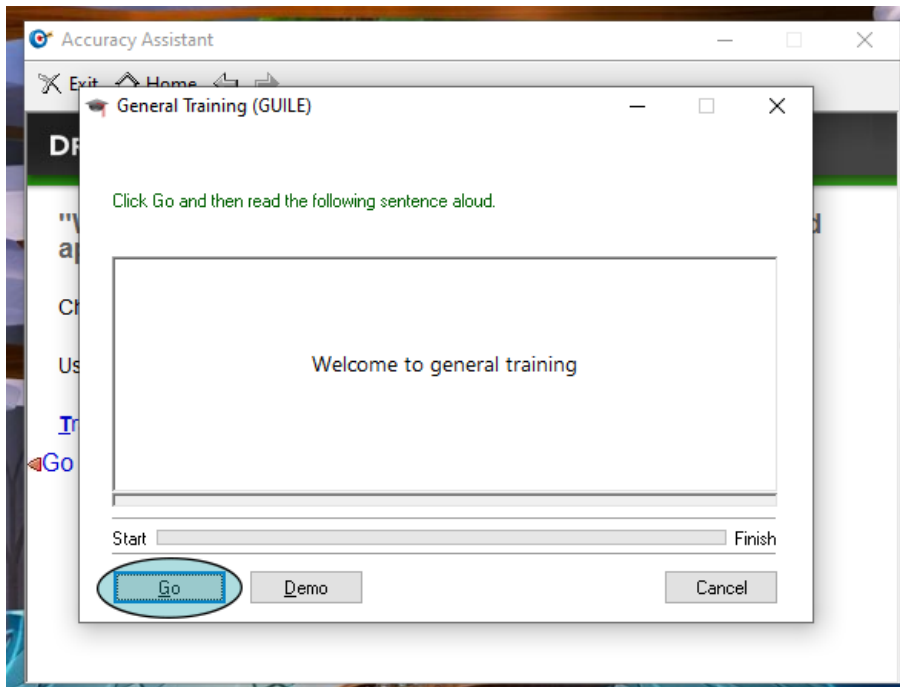
This will open the “**Check Microphone**” window. Avoid using your webcam or notebook microphones because they are not appropriate for Speech Recognition.



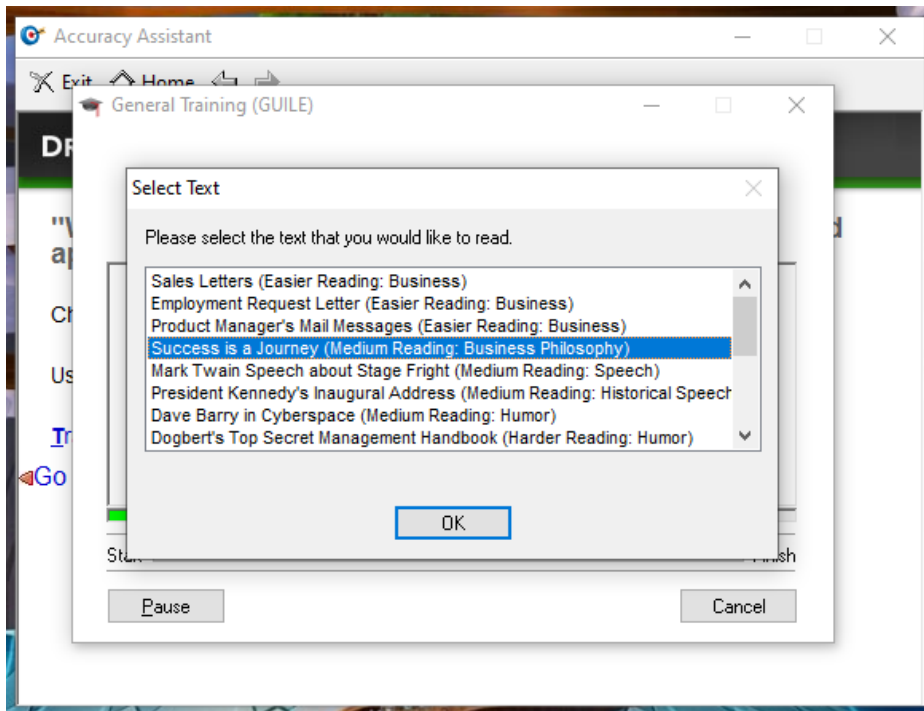
After completing your microphone testing, you will be back to the “Accuracy Assistant” windows. This time click on the “Train the computer” option.



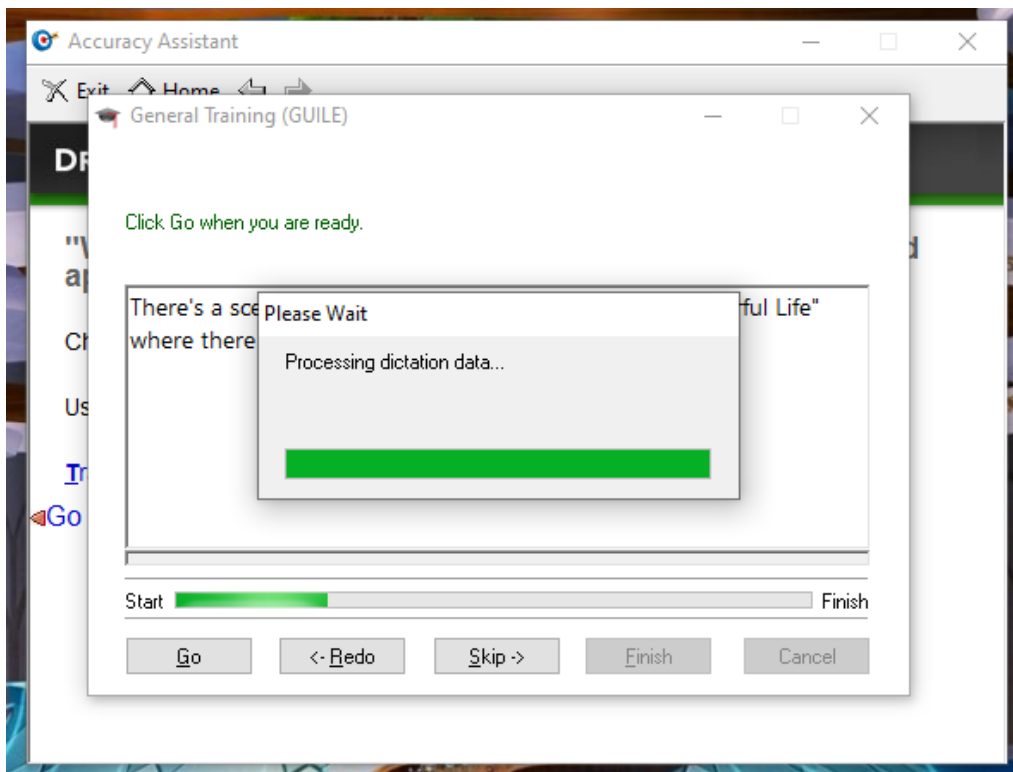
This will open the “**General Training**” window, the same one you have used to train your voice for the first time after installing D-Talks. Click on the “**Go**” button.



After reading a few sentences, you will be prompted with a few reading options. This additional reading can take from 10 to 30 minutes, according to the text you choose. Click “Ok” to start.



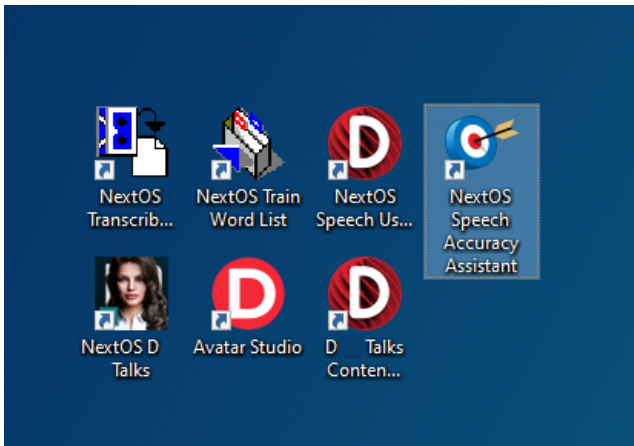
After reading the selected text, your Speech User Profile will be recreated with additional information which will improve the recognition accuracy.



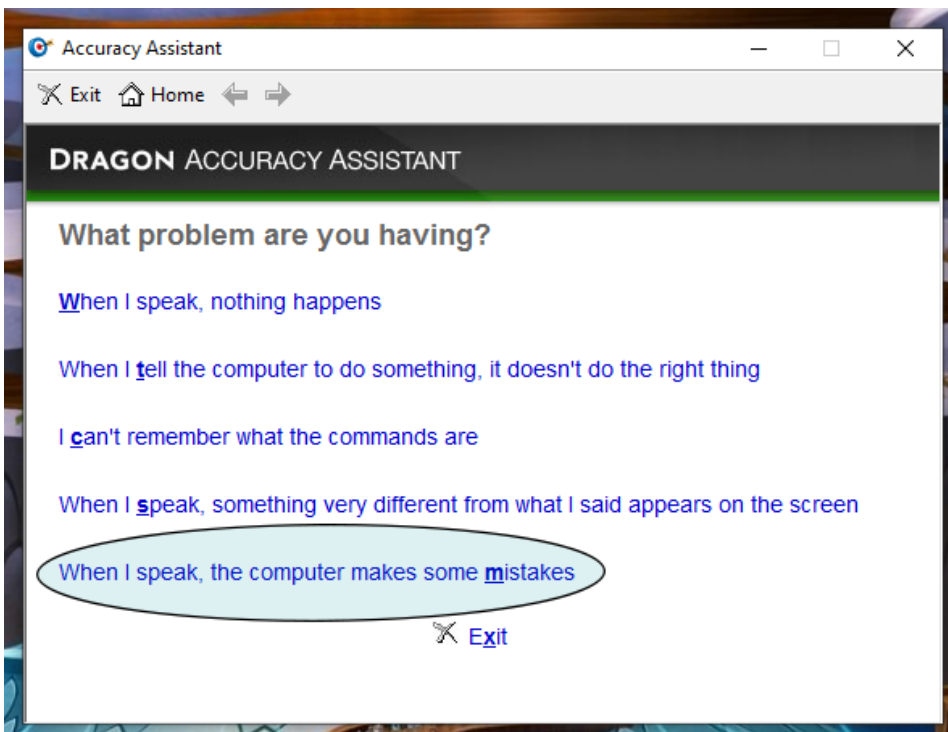
Training the pronunciation of specific words

While speaking to D-Talks, there can be times when the Speech Recognition does not recognize some words correctly. To fix that, click on the “**NextOS Speech Accuracy Assistant**”

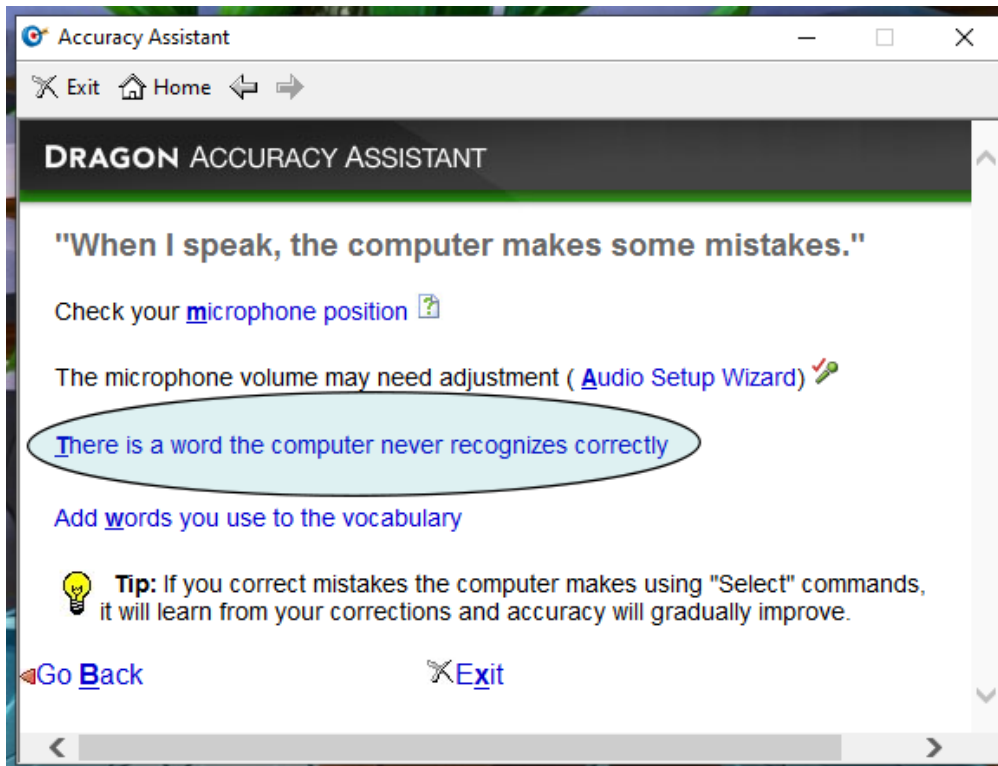
Important: Before opening this application, you need first to have D-Talks open with the Speech Recognition disabled or to open a user Speech Profile by following the steps at “[Open the User’s Voice Profile](#)”



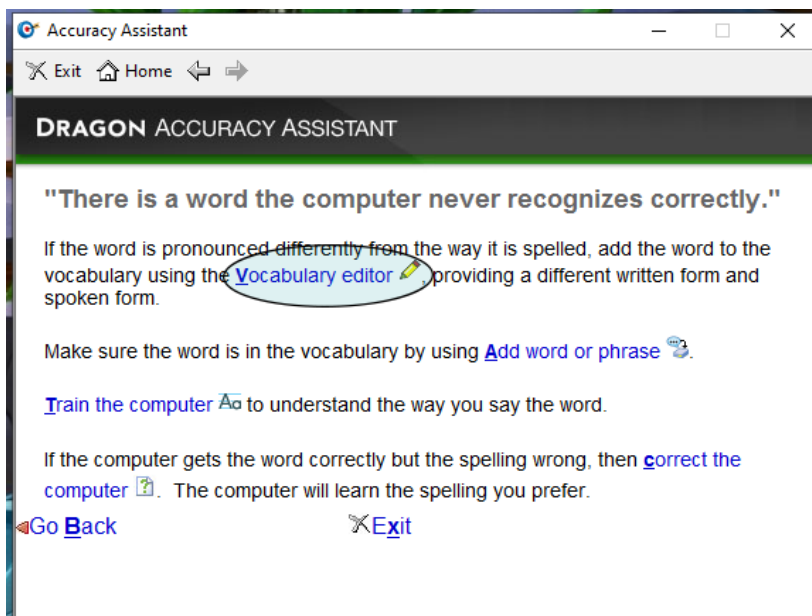
Click in the fifth option “**When I speak, the computer makes some mistakes**”



Click in the “**There is a word the computer never recognizes correctly**” option



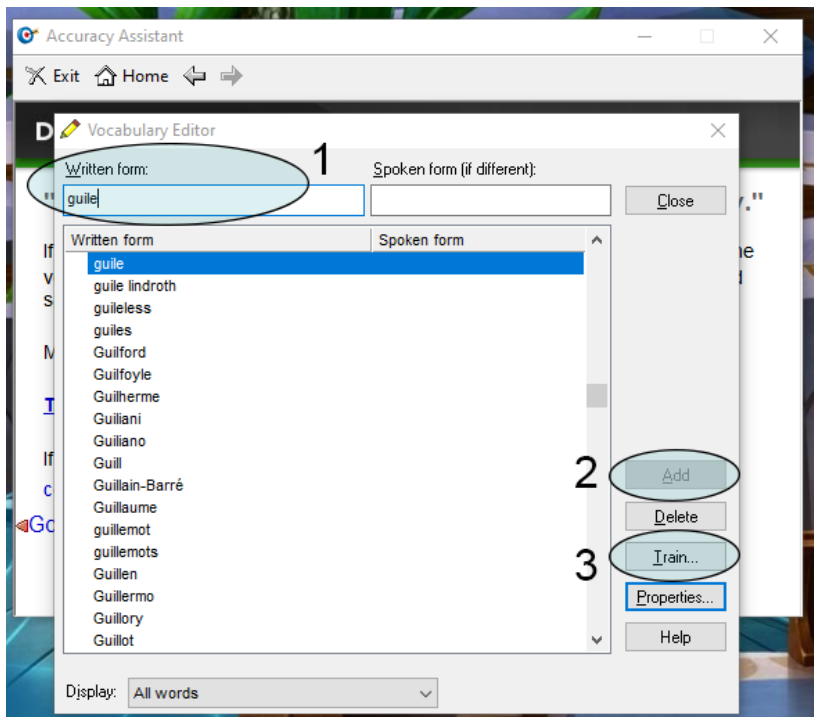
In the new window, click on the **“Vocabulary Editor”** option



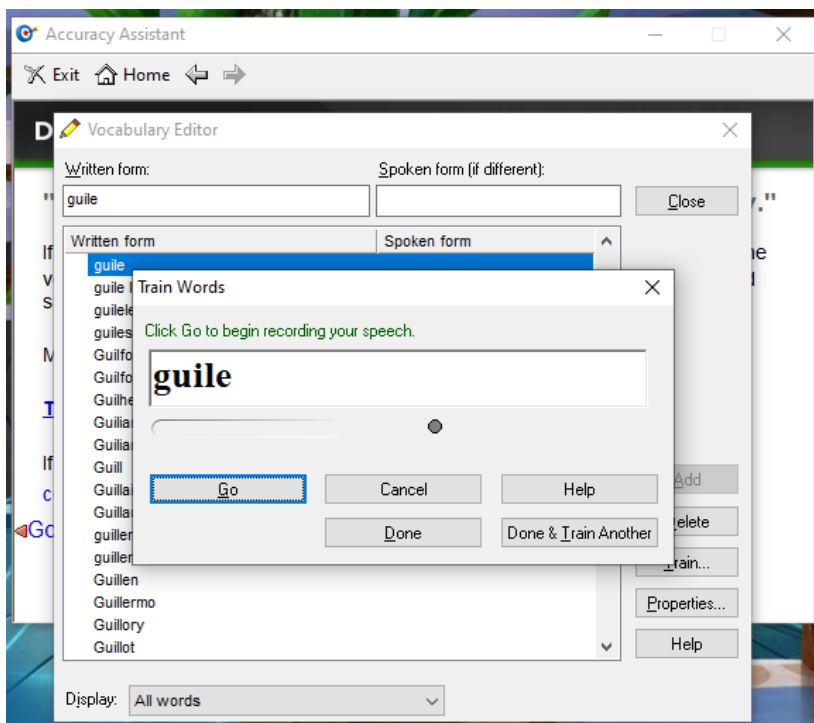
In this new window, you can add and train words for better Speech Accuracy. Use the **“Written form”** to search for the desired word. If it does not exist, click on the **“Add”** button.

In this example, I typed my name **“Guile”**, which is not recognized at all times (since it's really not a common name if you are not a **Street Fighter** fan!). This word already existed in the vocabulary (really

cool to get to know that!), so all I need to do is click on the “Train” Option to teach the Speech Recognition engine how to transcribe it correctly when I speak it.

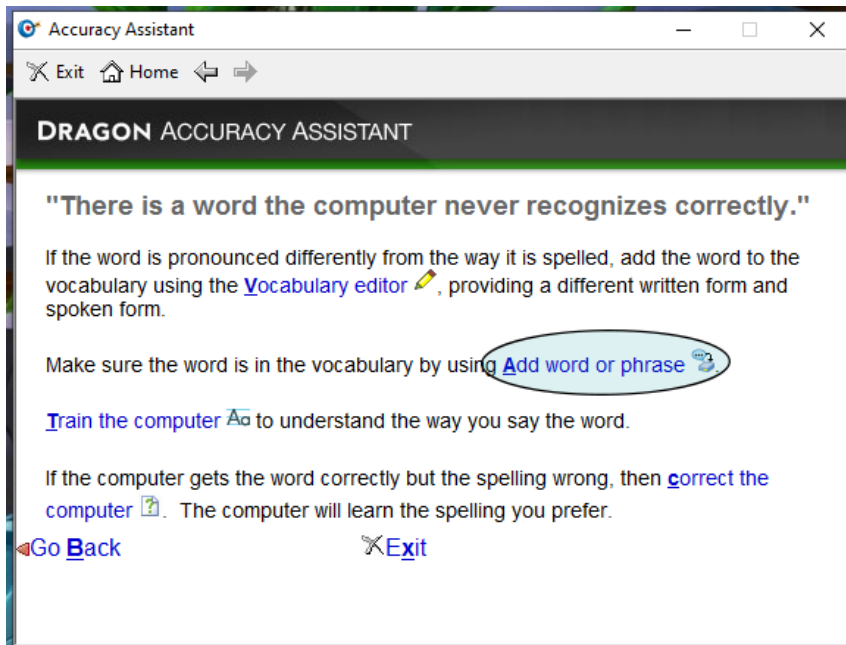


Clicking on the “Train” button, you will get the window below. Click on the “Go” button and speak the word.

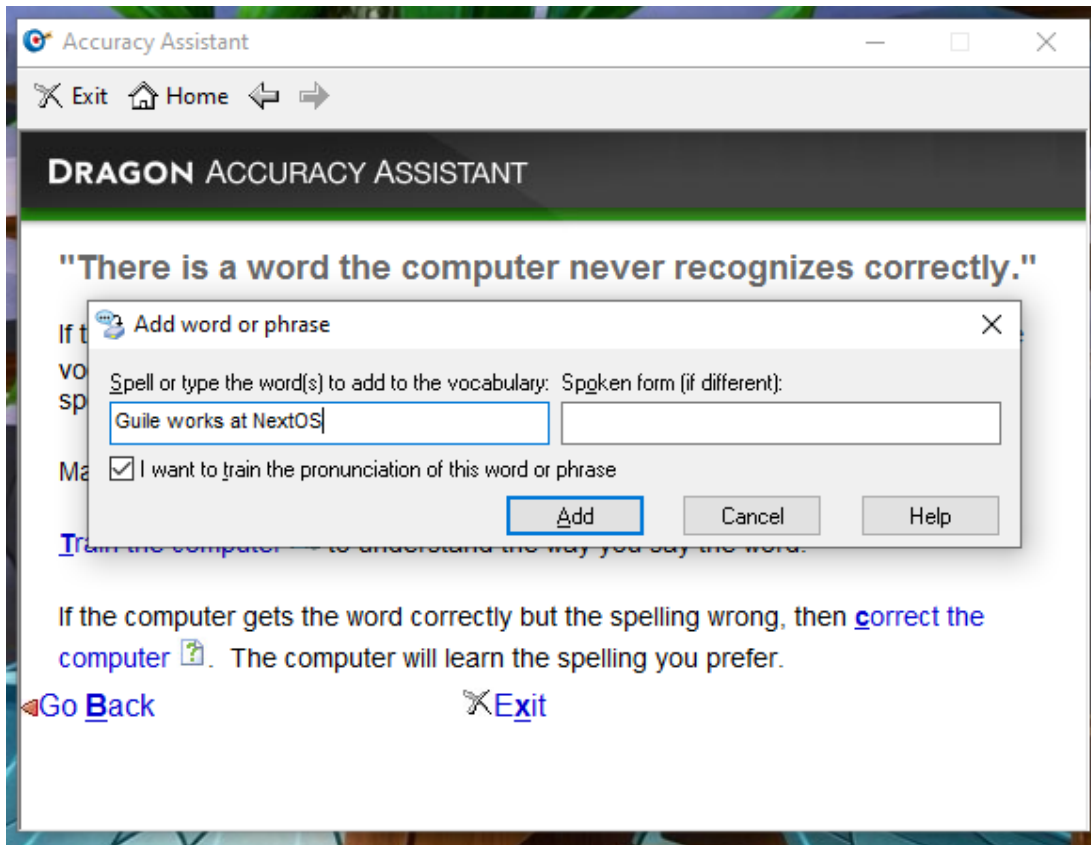


After training all the words you want, click the **“Done”** button and in the Vocabulary Window, click **“Close”** to return to the **“Accuracy Assistant”** window.

If you wish, you can easily add words to the Speech Vocabulary by clicking on the **“Add word or phrase”** option in the **“Accuracy Assistant”** windows. Using this option, you can train not only a single word, but a full sentence.



After typing in the word or sentence, click the **“Add”** button. By doing so, you will have also a chance to train how to pronounce the sentence.



Note: You can repeat this process as many times as you want to improve even more the Speech Recognition experience.

Important: There are a few things that can generate poor or slow speech recognition:

- Poor microphone. The best ones are the headset and external models, with noise-canceling features
- A computer with a slow processor and less than 8 GB of RAM memory
- Installing D-Talks on a non-SSD hard drive
- Too much background noise (people talking next to you, TV or Sound devices on, etc.)
- A strong accent from non-native English Speakers
- Not doing or completing the initial Speech Training by skipping it.

Note: For additional help, please open the folder

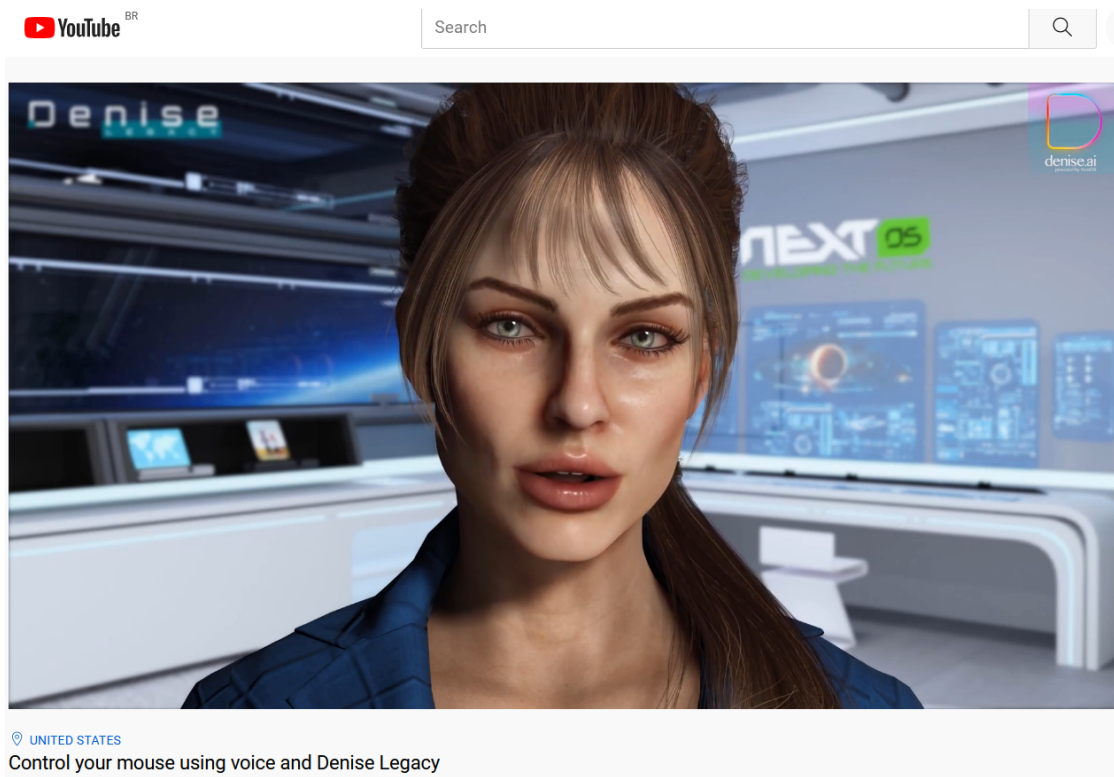
“DTalks\modules\dictation\engine\Help\enx\professional” and double-click the file “**dragon_enx.chm**”

Not all the features from the Dragon Help file work within D-Talks, like the “Dragon Bar”, as it is a feature only present on the stand-alone Dragon product.

5.5 Controlling your mouse with Voice

With D-Talks, you can control your mouse and simulate a single mouse click or a double-click in any desktop region. This can be very useful for people who cannot use their hands to use the mouse.

Please click on the image below to watch the tutorial video, which explains how to use this feature.

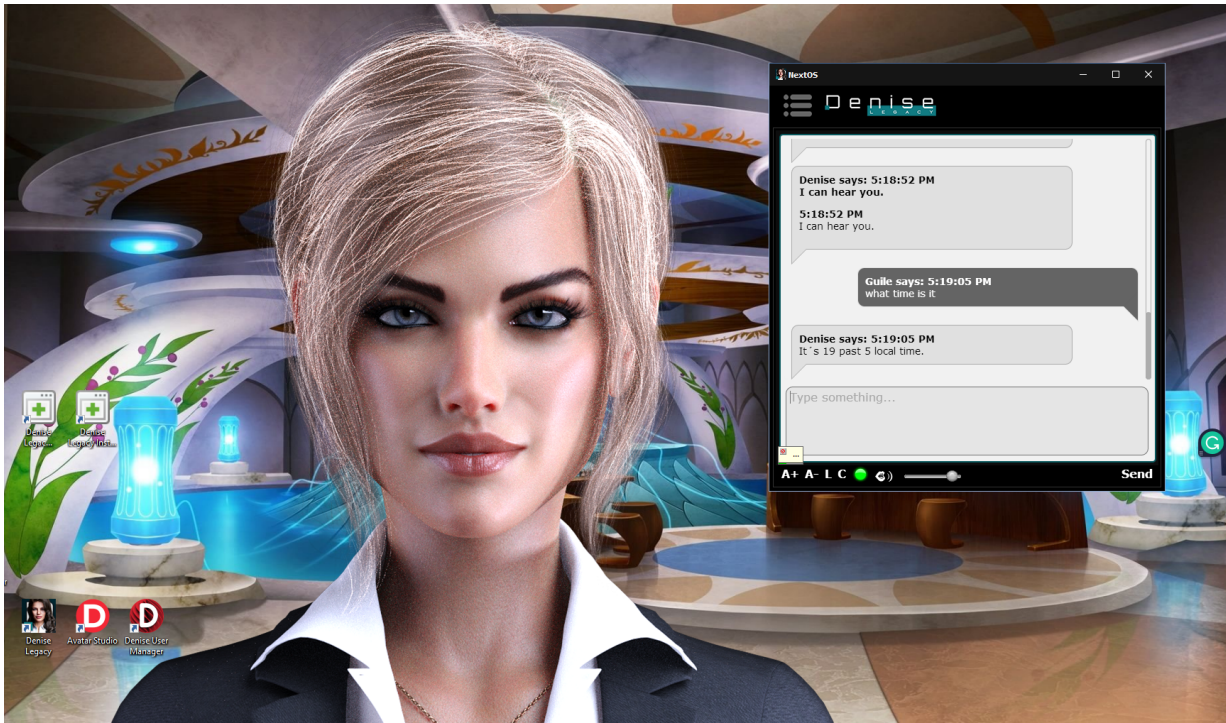


5.6 Dictating into other applications

With D-Talks, you can use your voice to speak to D-Talks or to dictate to any other software and application you have installed on your computer, or from web applications like Google Docs. This includes Word, .pdf, and any type of document. You can also use voice to dictate into any text field. There are no limitations on the amount of text you can dictate, and the best part, no Internet access is required. This makes D-Talks a unique software since most of the available dictation software needs a good Internet connection to work and some cases charges you by the amount of text you dictate, not to mention that, by using a local speech recognition engine, the recognition has almost no delay and you can be sure your personal data is safe because it doesn't go to an external server. Everything works and is saved on your computer's hard drive.

How it works

By default when you run D-Talks, it will open with the Speech Recognition enabled (the small circle is green) and the focus is on D-Talks' chatbox. In this state, everything you speak will show up as text in the chatbox.



To dictate to other software, application, or any field that accepts text, just use your mouse and click in this field, so the cursor focus changes from D-Talks' chat box to this new text field or document.

In the image below, we've clicked on a Google Doc document (in this case this user manual) and started speaking. You will see your speech is converted to text in the document. You can speak special keywords to skip lines and paragraphs and add punctuation:

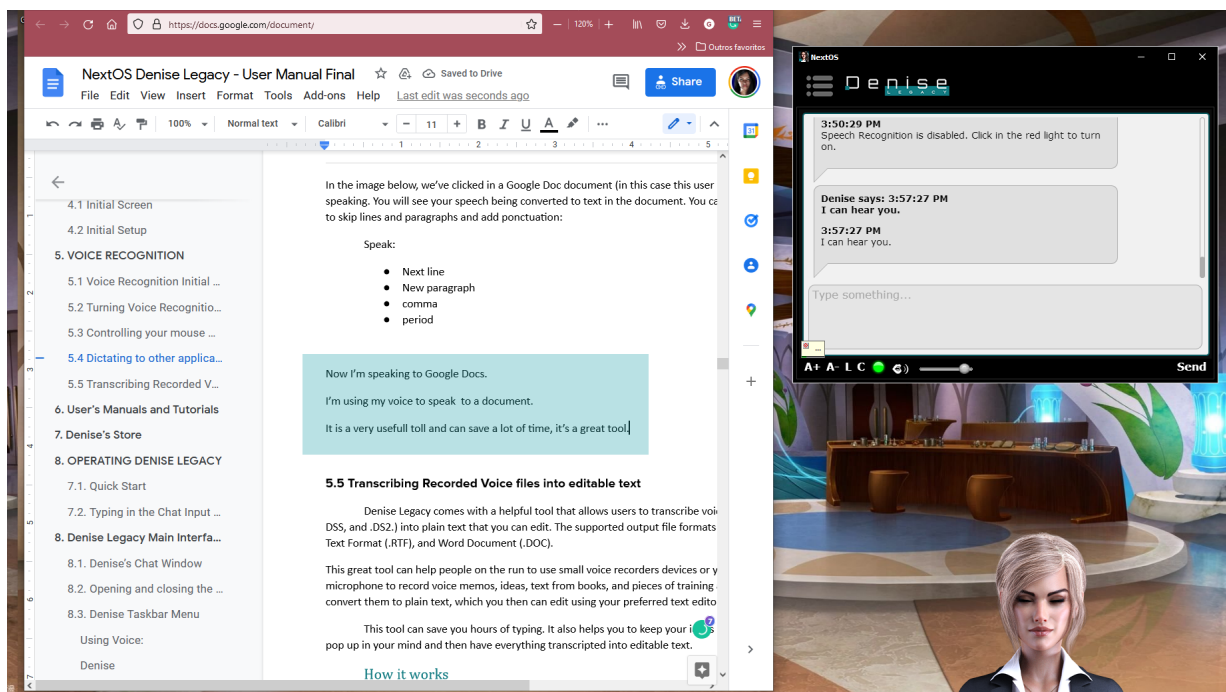
Speak

- Next line
- New paragraph
- comma
- period

“Now I'm speaking to Google Docs.

I'm using my voice to speak to a document.

It is a very useful tool and can save a lot of time, it's a great tool.”



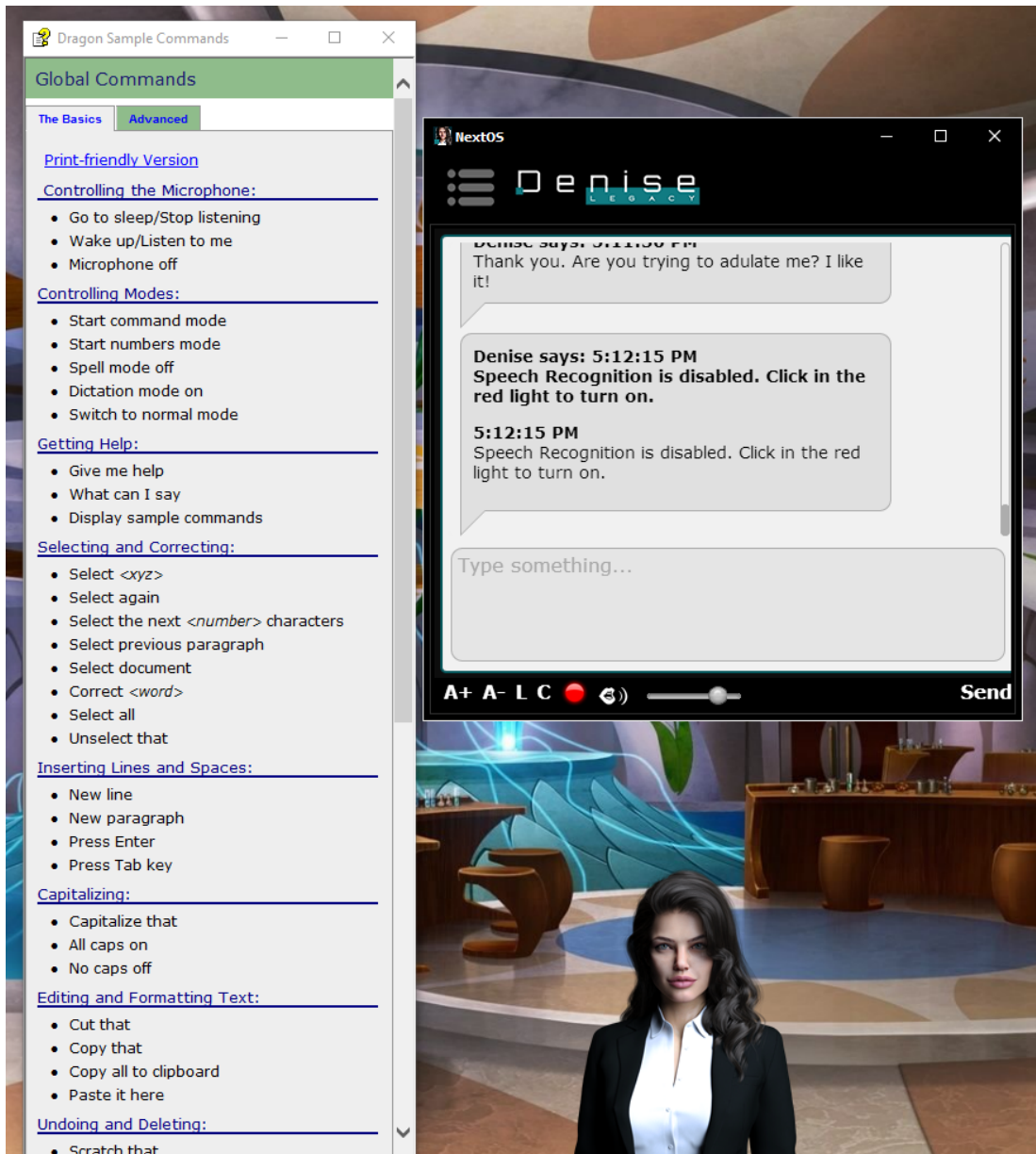
The “Go to Chat” command. Returning to dictate to D-Talks’ chatbox after dictating to an external application.

If you’d like to speak to D-Talks again after dictating into an external application, just use the mouse and click on D-Talks’ chat box to give it focus, or speak “**Go to Chat**”

Global Speech Commands to use within D-Talks or what dictating to an external application

D-Talks’ Speech Recognition engine allows a user to dictate a document, and add special commands to skip lines, paragraphs, add period or commas, etc.

Check the table below for the available voice commands. Note that not all commands are working yet, such as the “Search” voice commands. This feature will be added to D-Talks soon.



To open the “**Dragon Sample Commands**” as shown above, open folder “DTalks\modules\dictation\engine\Help\enx\professional” and click on the file “**samplecommands.chm**”

5.7 Transcribing Recorded Voice files into editable text

D-Talks comes with a helpful tool that allows users to transcribe voice files (.WAV, WMA, MP3, DSS, and .DS2.) into plain text that you can edit. The supported output file formats are Plain Text (.TXT), Rich Text Format (.RTF), and Word Document (.DOC).

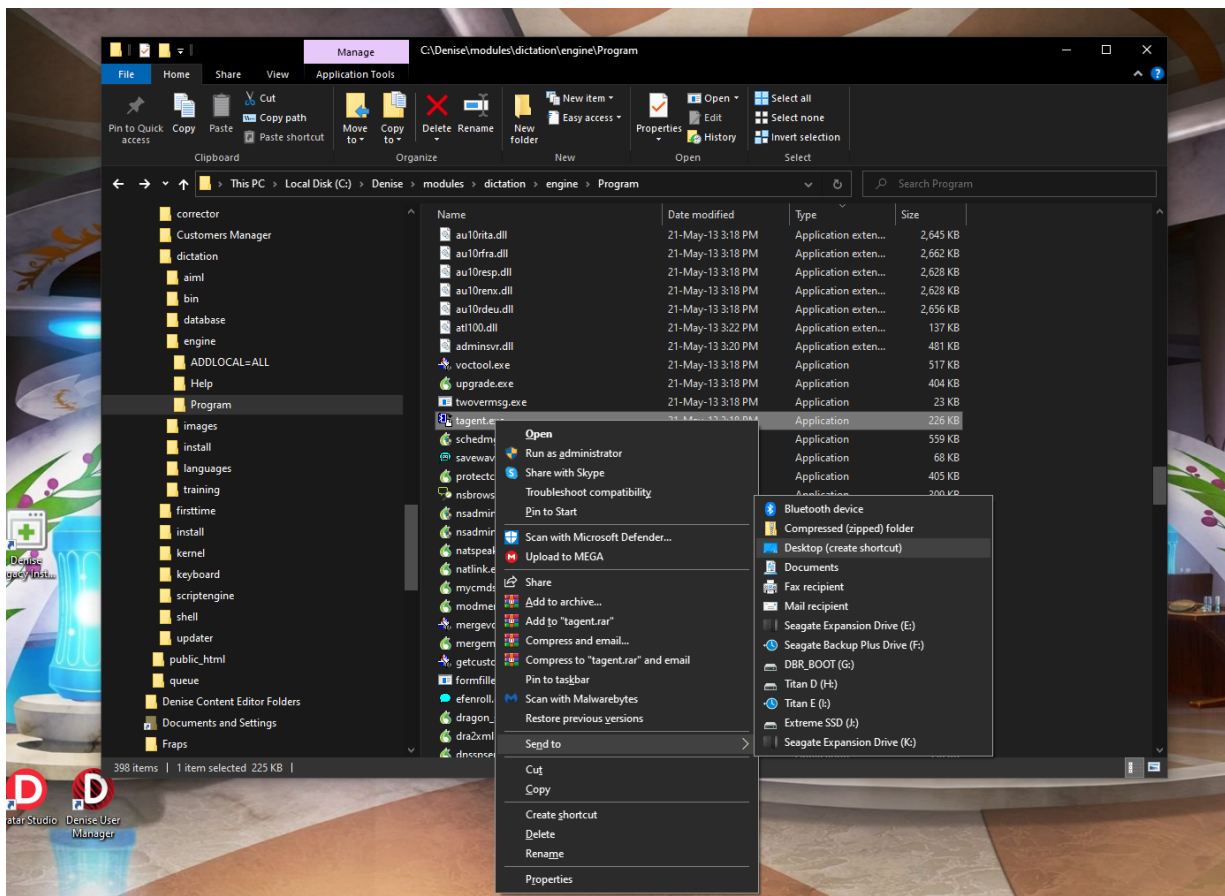
This great tool can help people on the run to use small voice recorders devices or your notebook/computer microphone to record voice memos, ideas, text from books, and pieces of training and then automatically convert them to plain text, which you then can edit using your preferred text editor.

This tool can save you hours of typing. It also helps you to keep your ideas safely recorded when they pop up in your mind and then have everything transcribed into editable text.

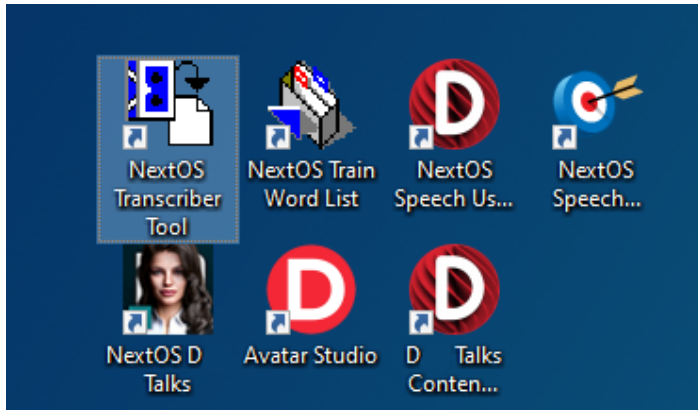
How it works

First, let's create a shortcut for this application to show up on your desktop. Open Windows Explorer and go to folder DTalksmodules\dictation\engine\Program

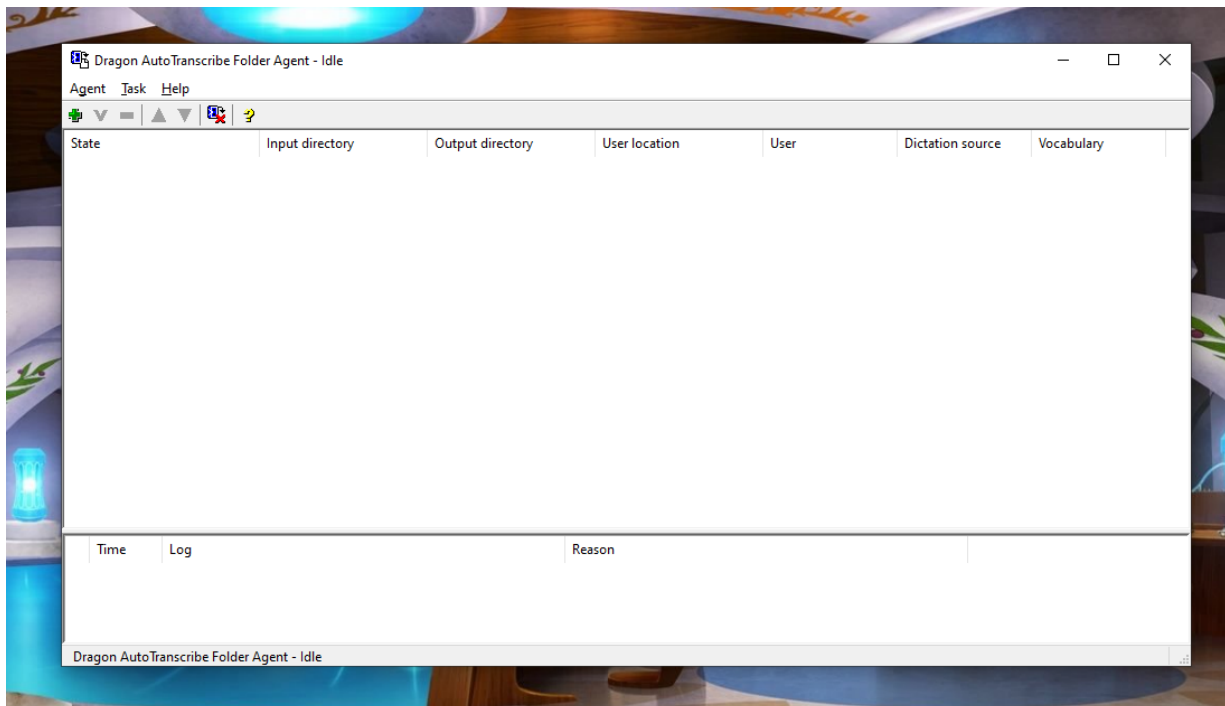
Search for the file **"tagent.exe."** Right-click on it, and from the menu, choose **"Send to->Desktop"**



Click in the shortcut's caption and change it to **"D-Talks Transcriber Tool"**

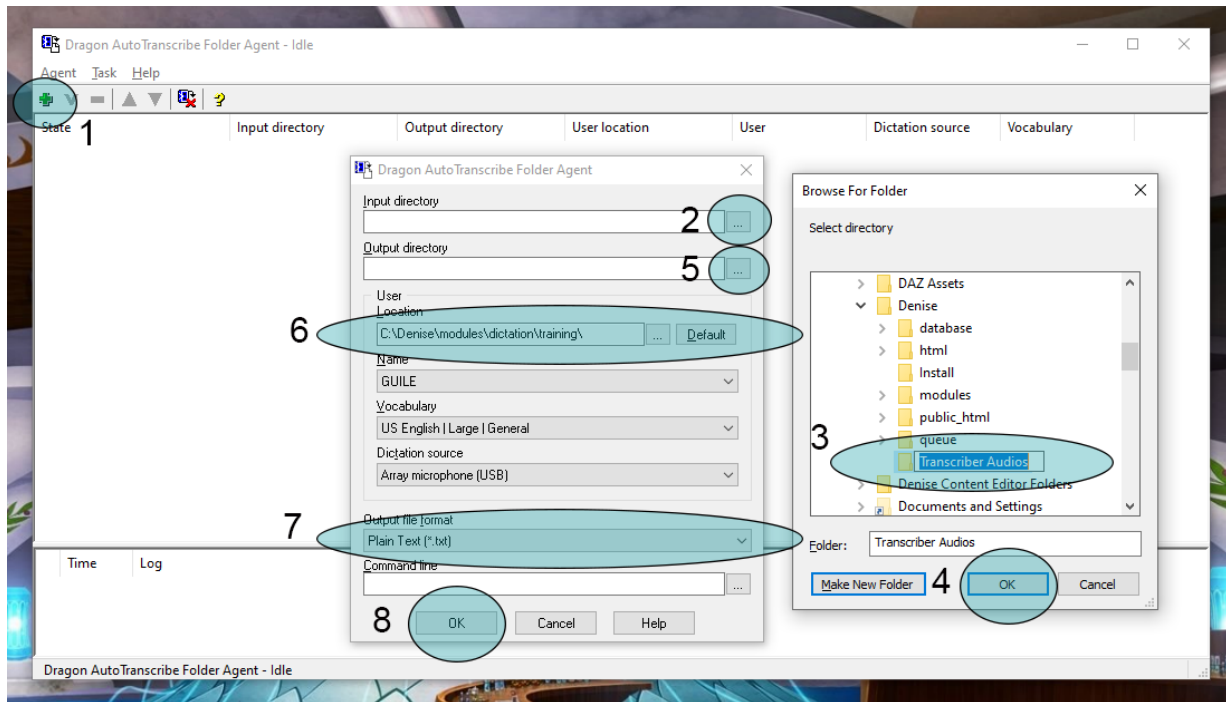


Double-click on this shortcut to run the Transcriber



The Transcribe Tool monitors a specific folder on your computer for audio files and uses the specified Speech Recognition user Profile created when you trained your voice with D-Talks to transcribe the recording. The resulting transcriptions are then written to a directory that you choose in an editable text file.

The Transcriber Interface

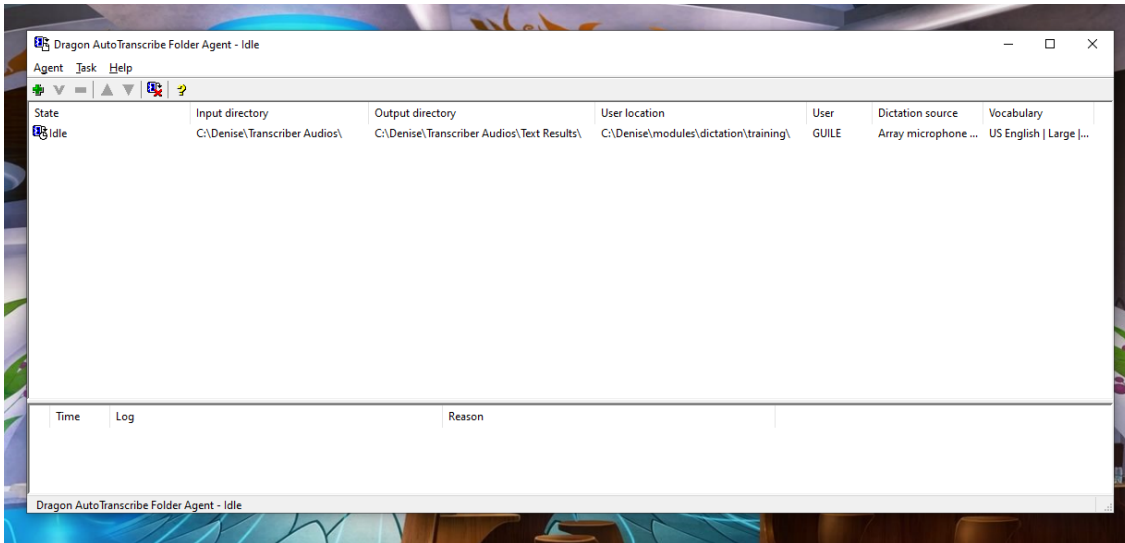


To start using the Transcriber, you need first to configure it by following the steps below:

1. Click on the “+” upper left menu option
2. Click in the “...” icon to select a folder on your computer where you will save the audio files. This can be any folder in any directory with any name you choose.
3. As an example, I’m creating a new folder named “Transcriber Audios” in my D-Talks’s installation folder.
4. Click Ok to create the new folder
5. Repeat this process to create a new folder to save the text transcribed results. This can be a subfolder of the “Transcribed Audios” folder we have just created. I have created a new folder “Text Results” at “C:\DTalksTranscriber Audios\”
6. Click on the “...” icon to select the folder for your User Speech Profile. This is by default created after you’ve trained your voice and it’s located at “DTalksmodules\dictation\training\”
7. You can choose among the supported output file formats. Plain Text (.TXT), Rich Text Format (.RTF), and Word Document (.DOC).
8. Click “Ok” to enable the Transcriber.

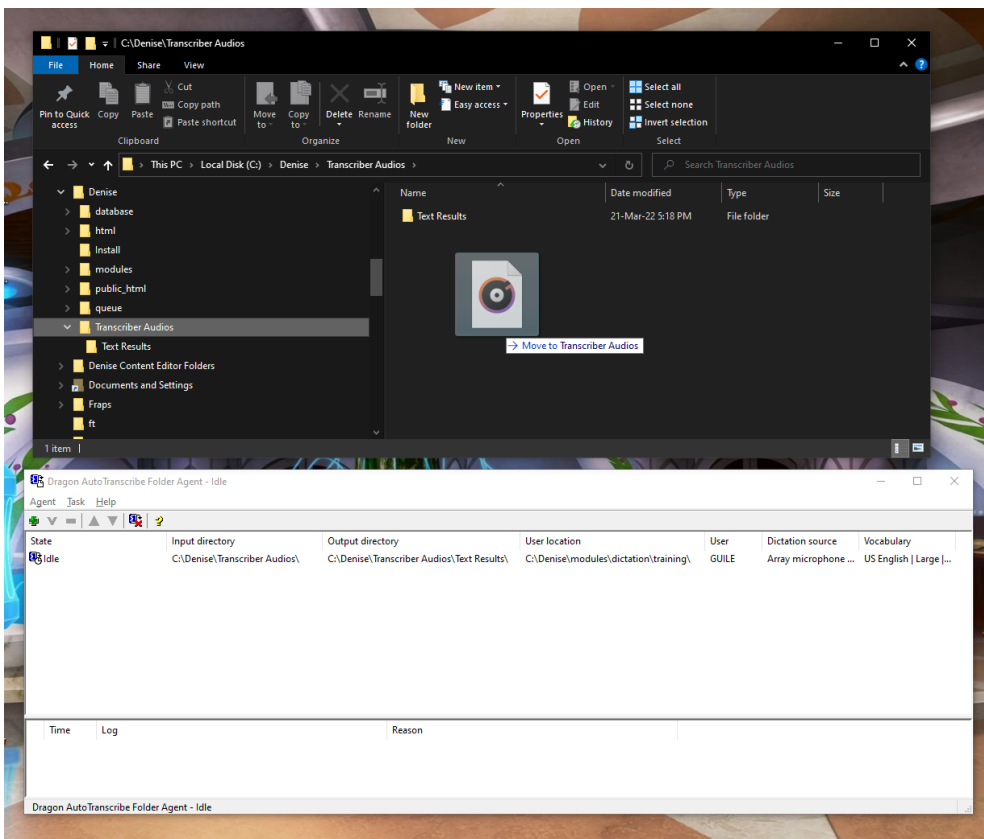
From this point, the Transcribe Tool monitors the created folder on your computer for audio files and uses your Speech Recognition user Profile to transcribe the audio recording. The resulting transcriptions are then converted to an editable text file and saved to the output directory that you’ve created.

After this configuration, your Transcriber interface should look like the image below:

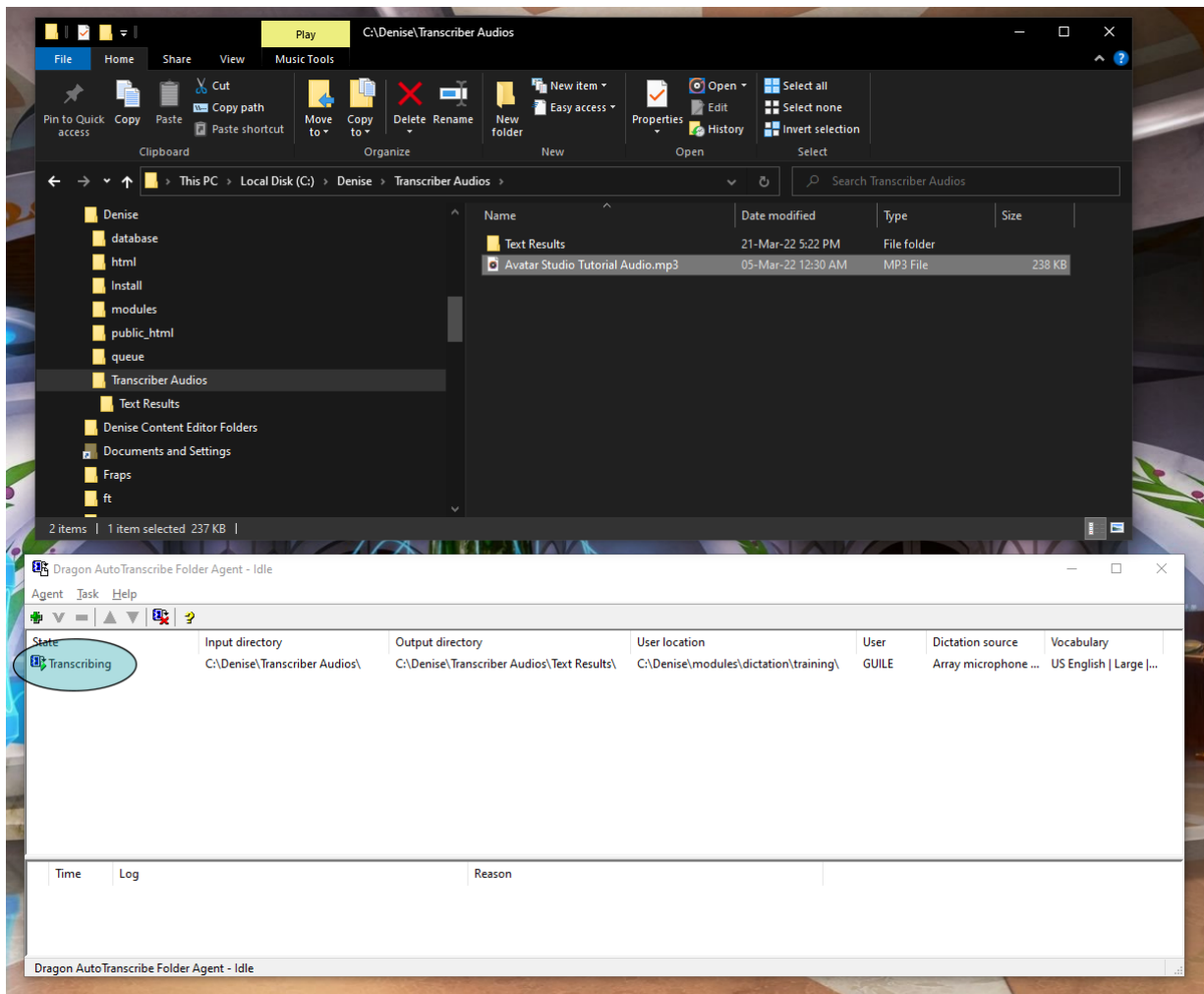


To test this tool, I've recorded a small voice .mp3 file using my computer's microphone and saved it in the "DTalks\Transcriber Audios\" folder.

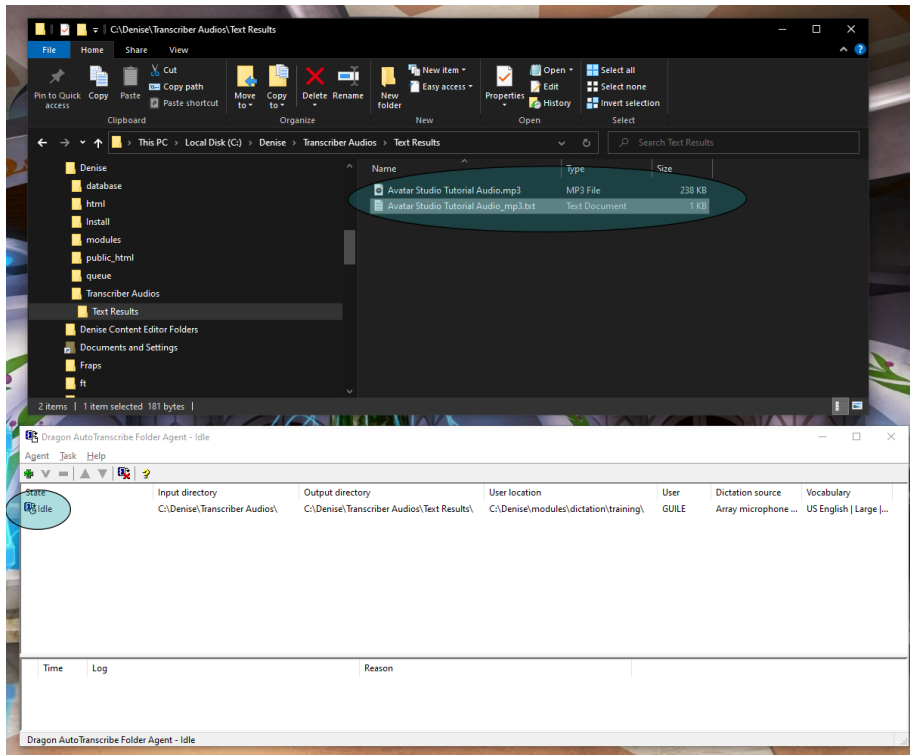
In the image below, I've dragged and dropped an audio file .mp3 into the "DTalks\Transcriber Audios\" folder.



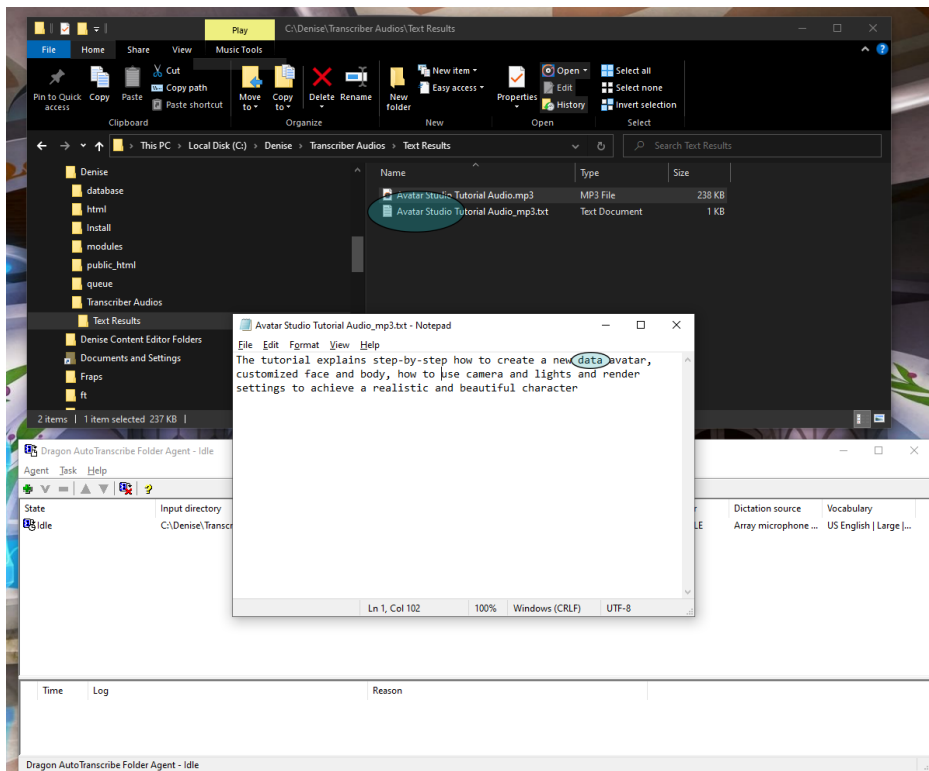
As soon as you drag and drop the audio file, you will note a processing message in the Transcriber Tool showing the message “Transcribing”. This process can take a few seconds to a few minutes depending on the size of your audio file.



When the transcribing process is done, the message “Transcribing” will change to “Idle”. To check the results, open the folder “C:\DTalks\Transcriber Audios\Text Results”



Double click the file “Avatar Studio Tutorial Audio_mp3.txt” to check the results.



Note that you can create several different tasks at the same time, each one monitoring different folders for audio files.

In our example, the quality of the transcription from Audio to Text was really good. It just got a few words wrong. The word “DAZ” was transcribed to “Data” because the DAZ word was not in the Speech Recognition Dictionary.

In the next section, we will learn how to add words to our Voice dictionary and train their correct pronunciation.

5.8 Adding words to the user’s Voice Recognition dictionary and training.

In some situations, we can have a list of words that are not typically in the English Dictionaries. This can include names of products, companies, personal names, application and software names, new technologies, and so on.

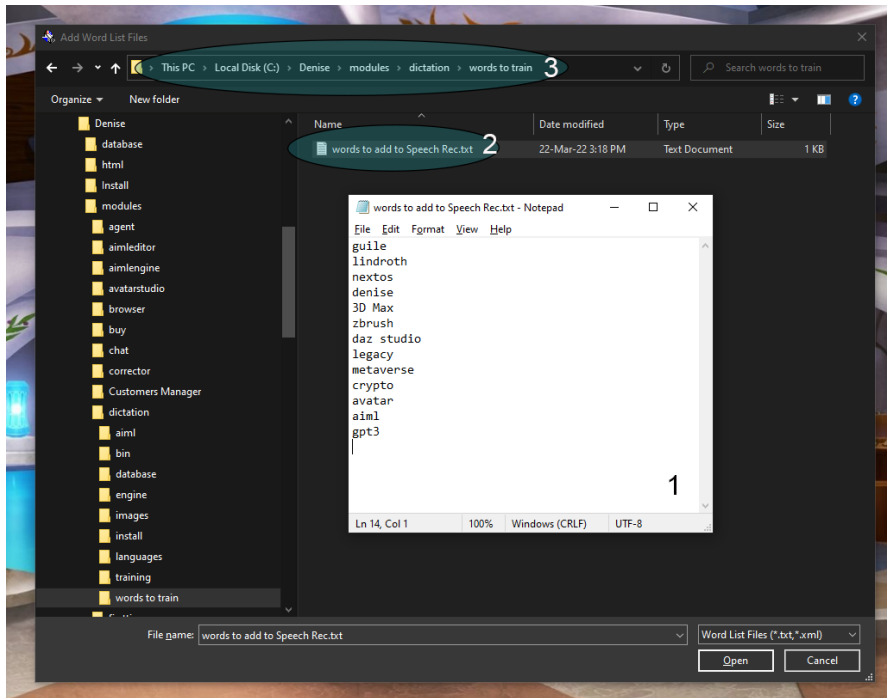
With D-Talks and its tools, we can create a text .txt file listing those words that you believe will not be recognized by Speech Recognition and train it.

How it Works

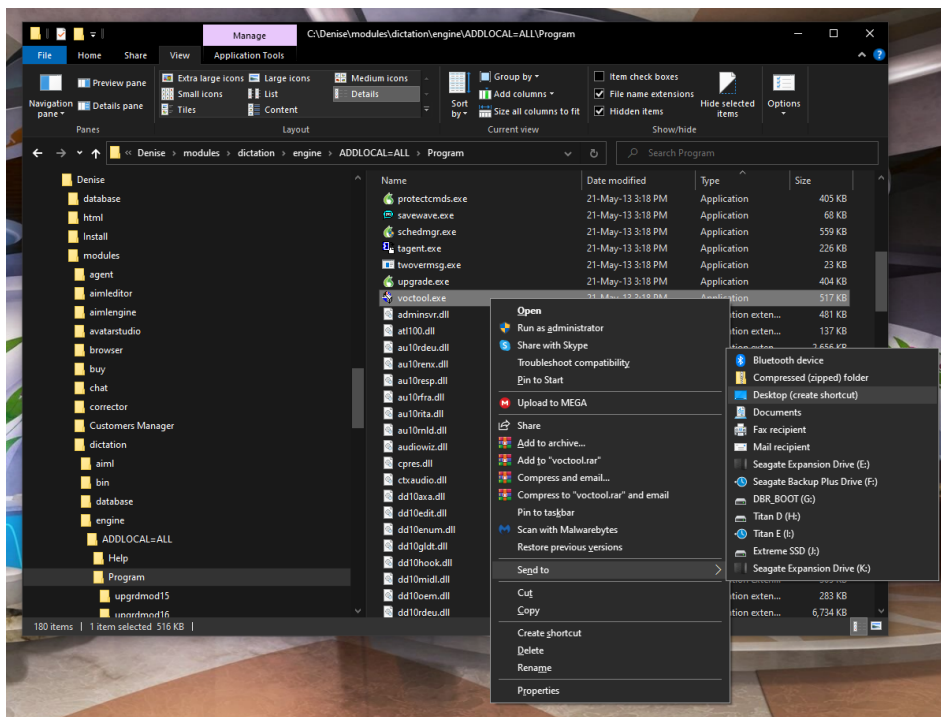
Step 1: Using Windows Notepad or any other text editor, I then created a new document and typed all the words or sentences I believe will be hard for the Speech Recognition to get correctly in a list format. In my case, I name this .txt file “**words to add to speech rec**” Write the words or sentences on their own line in the text file.

Step 2: Create a new folder on your computer and give it a name. In my case, and to keep things organized, I open the folder from D-Talks’ installation “DTalks\modules\dictation\” and created a new folder with the name “**words to train**”. The final folder is then located at “DTalks\modules\dictation\words to train”

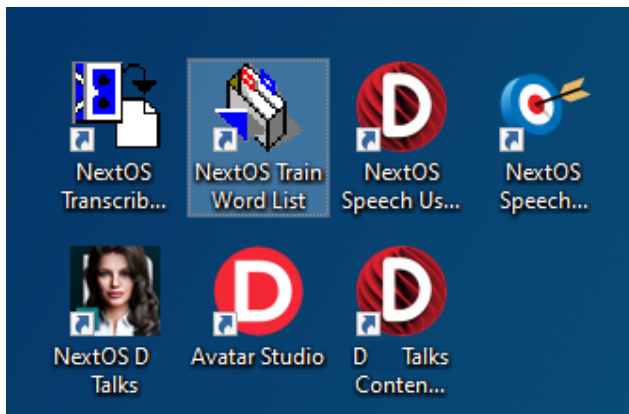
Step 3: Save this text file in the new folder “DTalks\modules\dictation\words to train”



Step 4: Open folder DTalks\modules\dictation\engine\Program and search for the file “voctool.exe” Right-click on it and choose “Send to” -> “Desktop (create shortcut)”

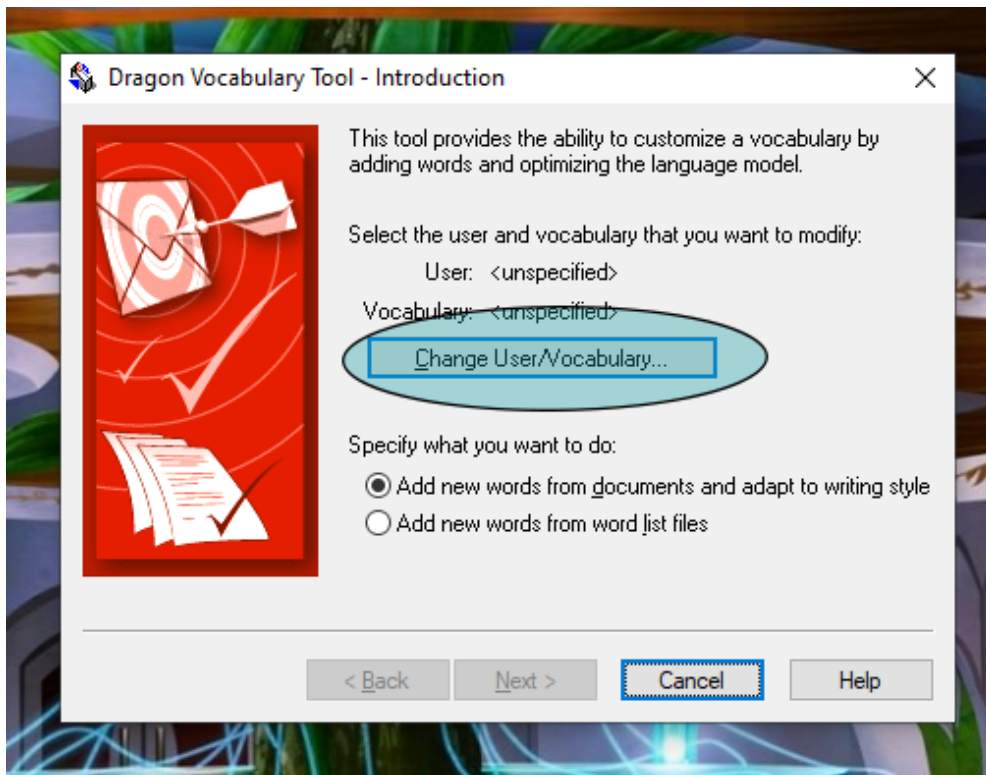


This will create a shortcut on your Desktop. You can click on this shortcut to rename it. In my case, I renamed it from “Voctool Train Word List” to “NextOS Train Word List” so you will remember this is a tool that belongs to D-Talks.

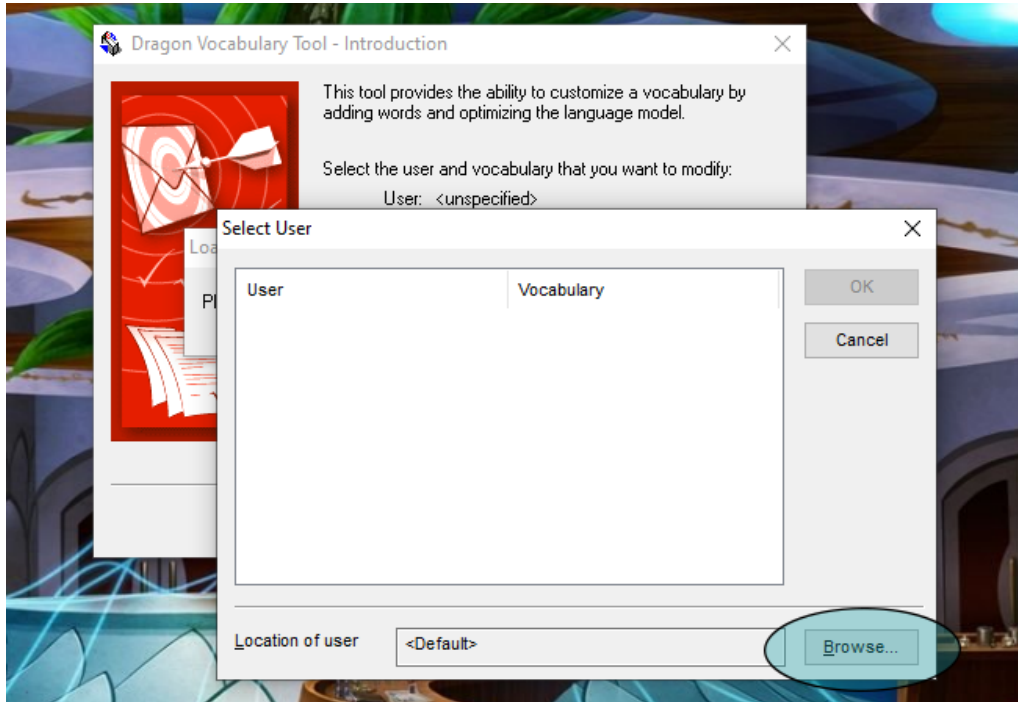


Step 5: Opening the User’s Speech Profile

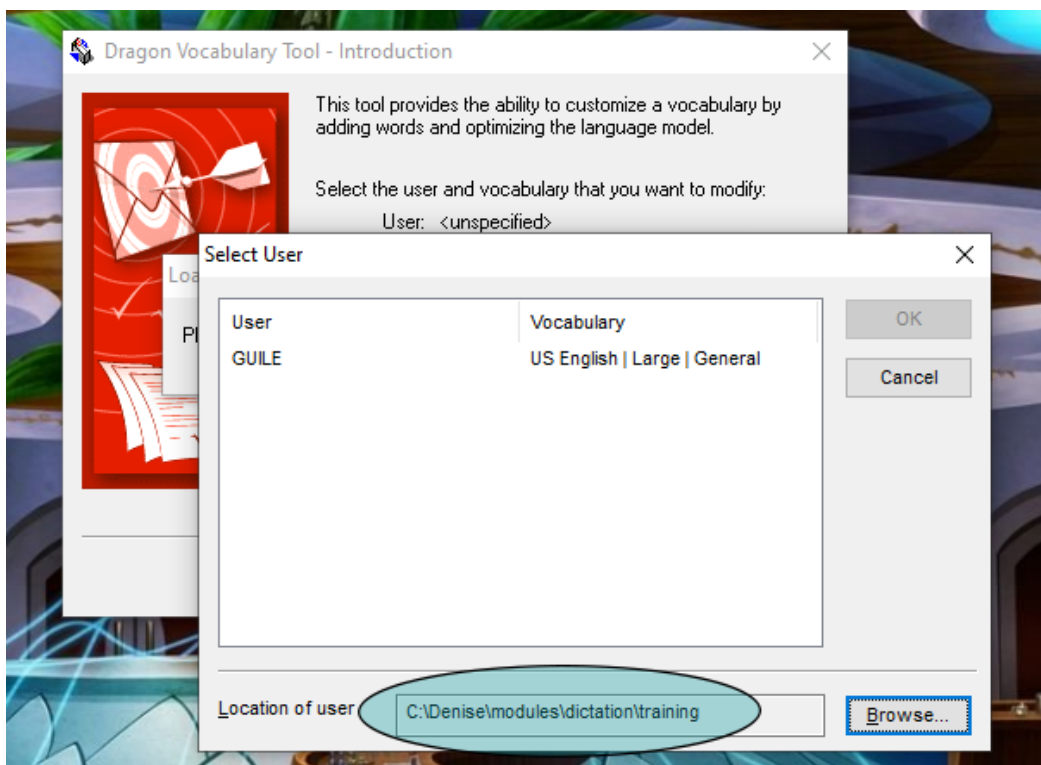
Double-click on it to open the “Dragon Vocabulary Tool”. Click on the “Change User/Vocabulary” button.



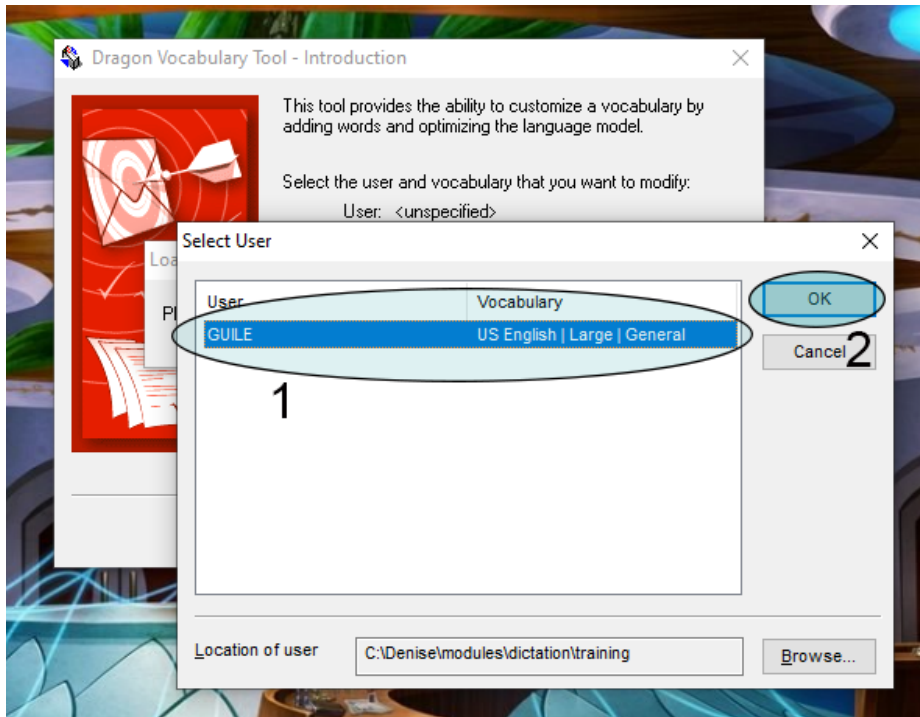
This will open the “Select User” dialogue. Click on the “Browse” button.



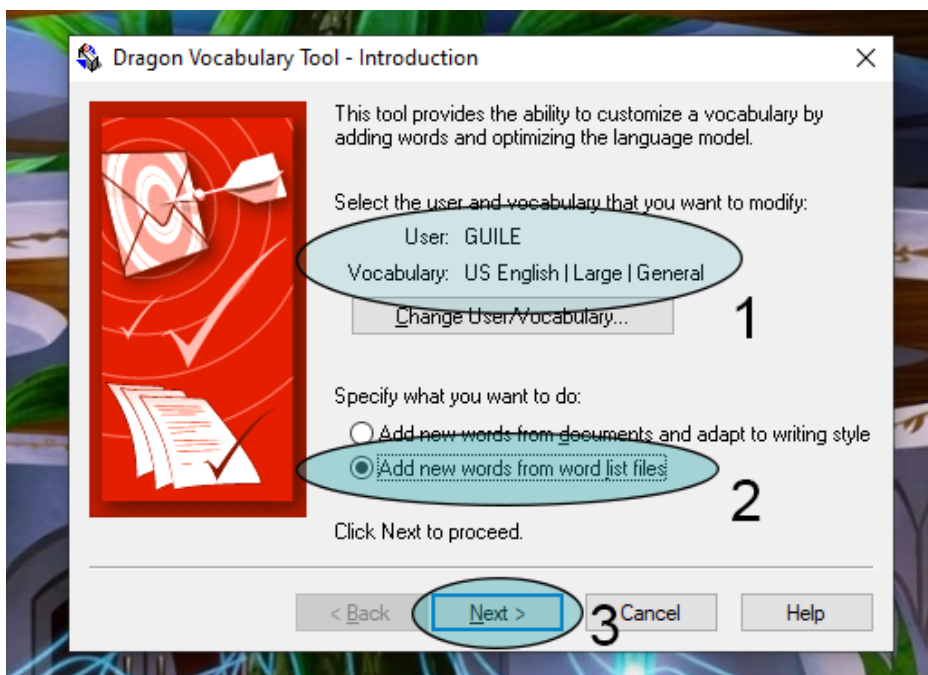
Open your D-Talks folder installation and search for the folder "DTalksmodules\dictation\training". Choose this path to the field "Location of user".



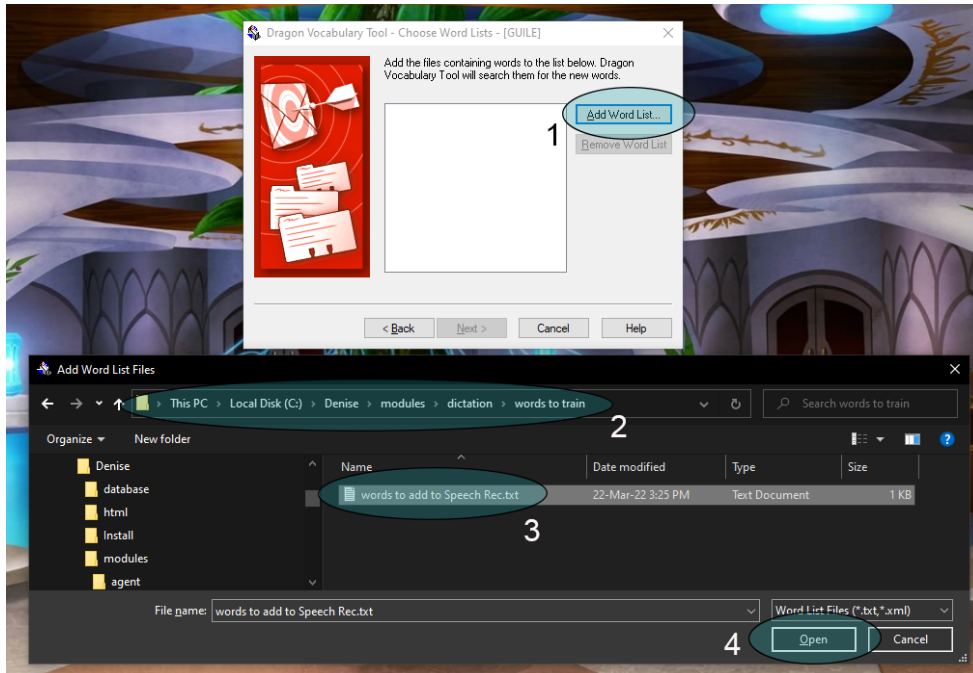
Click on your user name to select it. Click the “Ok button”. This will open your Speech User Profile and enable it for further training.



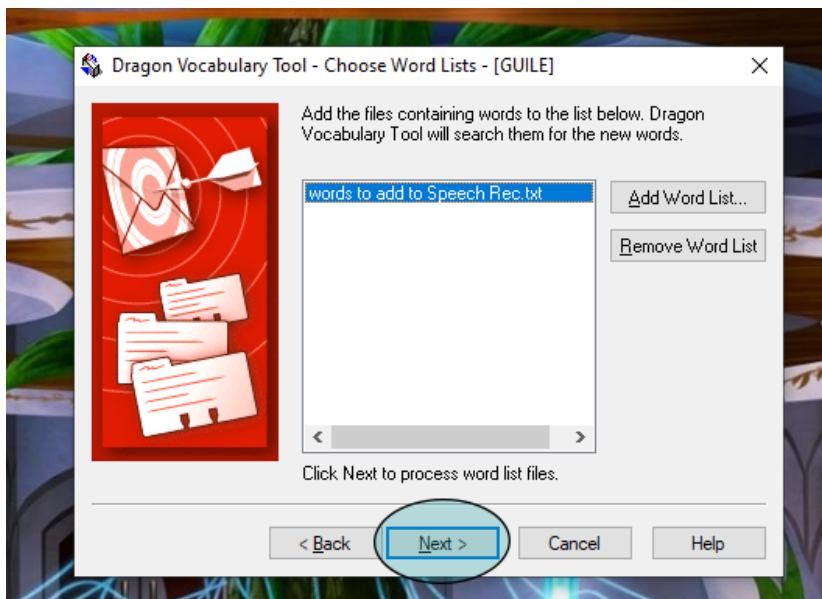
In the dialog window below, make sure you have the user's profile name showing as the active user, and select the “Add new words from word list file”. Click “Next”



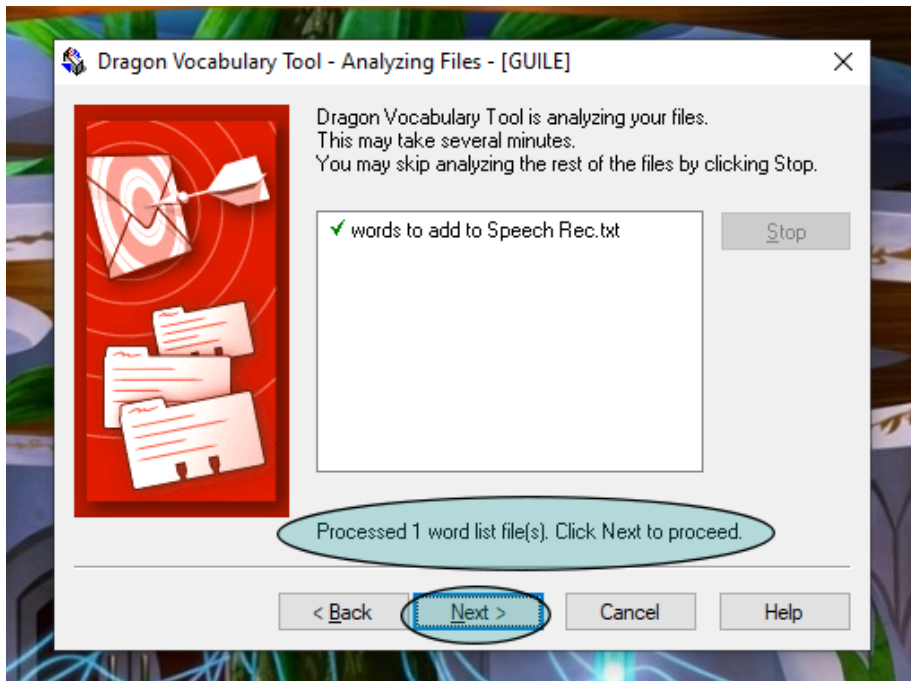
In the new dialogue, click the “Add Word List” button. Open the folder you created to save the text file you have created in the previous steps. In my case, I opened the folder “DTalks\modules\dictation\words to train” and choose the file “words to add to Speech Rec.txt” Click “Open”



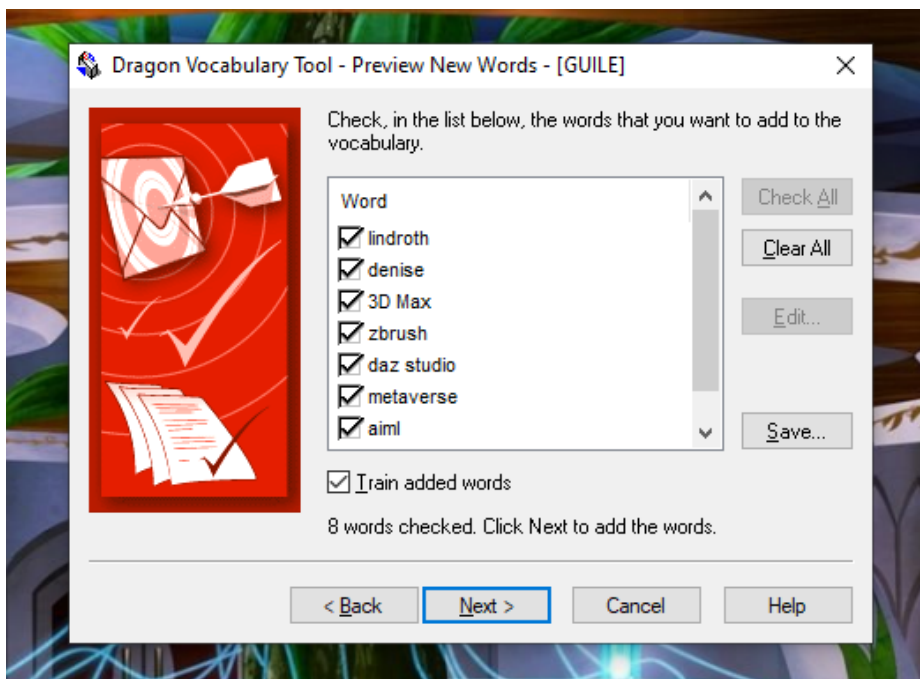
In the new dialogue, make sure you have your word list selected, and click “Next”



The Speech Recognition engine will add your new words/sentences to its vocabulary. Click “Next”



This new dialogue will display all the words from your list. Click “Next” to finish this process. Now the Speech Recognition engine will be able to transcribe correctly your custom words.



Step 6: Training the Pronunciation of the newly added words.

You can optionally train the pronunciation of all the new words you have added. This will greatly improve the Recognition Accuracy. To do so, please check this tutorial section "[Training the pronunciation of specific words](#)"

6. USER'S MANUALS AND TUTORIALS

If you cannot find the User Guides within your purchase at DAZ Store, you can get the latest versions using the link below:

User Manual

<https://nextos.s3.amazonaws.com/DeniseLegacy/Update/modules/avatarstudio/tutorial/NextOS+Denise+Legacy+-+User+Manual+Ver+1.0.pdf>

Avatar Studio Manual

https://nextos.s3.amazonaws.com/DeniseLegacy/Update/modules/avatarstudio/tutorial/NextOS_Denise_Legacy-Avatar_Studio_Ver_1.0.pdf

Speech Recognition Video Tutorial

<https://youtu.be/33NBCWBeb-Y?fbclid=IwAR30xbqsduFV1173ldWkliRI-aiqqVrfiMpSPaowIADCXlhSOukEaYJmA-0>

We are finishing the Content Editor User Guide, and I will let you know as soon as its ready.

7. D-Talks' STORE

Please visit our [DAZ Store](#) to check all available additional items.

8. OPERATING D-Talks

8.1. Quick Start

Just for fun, and to get to know a few of D-Talks' features quickly, these are some commands you can type or speak on her chatbox:

Hi	Say hi to D-Talks
Date	Say actual date
Time	Say time
Double Click on the Avatar	Avatar get big
Middle mouse button	Change the Avatar size
What are you?	D-Talks Answers
Get Big	D-Talks gets big
Get Small	D-Talks gets small
Go Away	D-Talks go to tray icon
Get sad	D-Talks gets a sad face (works with 9x9 Avatar Studio Matrix Avatars)
Clean Chat	Delete all messages in the chat window
Hide Desktop	Hide all Desktop icons and shortcuts
Show Desktop	Restore all Desktop icons and shortcuts
Get Big	Avatar is displayed big on Desktop
Get Small	Avatar is displayed small on Desktop
Always Hidden	Avatar shows behind the applications on your screen
Always On	Avatar shows on top of the applications on your screen
Go away / Hide	Avatar goes to the taskbar
Normal Face	D-Talks gets normal face
Tell me a Joke	D-Talks Answers
I feel sad	D-Talks Answers
Run Notepad	Runs Notepad
Run (program name)	Runs (program)
Clear Chat	Delete text in D-Talks's Chatbox, both questions and answers
Select a word or sentence in a web browser, drag and drop over the Avatar to make it speak it aloud (Avatar Studio)	To run the Avatar Studio Module, please open folder \DTalks\modules\avatarstudio\bin\Win32\ and double click on the "DTalksAvatarStudio.exe" file
Avatar (name) Ex: "Avatar D-Talks"	Changes the current Avatar if its exists in the folder (C:\DTalks\modules\agent\characters)
Exit	Close D-Talks System

You have many ways to operate D-Talks:

8.2 Using your voice.

D-Talks' Overall Voice Recognition is normally turned on but in "Sleep" mode (the small circle in the chatbox is Blue). To make her start recognizing commands and phrases, speak the word:

Wake Up

After you speak one of these keywords, she will change from "Sleep" mode to "Awake" mode and will keep waiting for you to speak.

When D-Talks hears the awake keyword and starts recognizing the voice, the blue circle led at the bottom of the chat window will change to green.

When you want to stop talking, turn the Speech Recognition off by speaking:

Go to Sleep

The green circle led at the button of the chat window will change to blue.

If you want to turn your microphone off, click on the circle icon. It will turn red.

8.3 Typing in the Chat Input Box.

If you don't want to use Voice Recognition, just type what you want to do in D-Talks' Chat Input box. Also, almost every menu option in D-Talks' system has the equivalent text that can be typed or speak it to perform the same action.

9. REMOTE CONTROLLING D-Talks USING EXTERNAL (3RD PART) APPLICATIONS

This feature was present only in D-Talks 1.9 Business, and now it's part of D-Talks.

IMPORTANT: You need to purchase the “Comercial License” at the DAZ3D Store to be allowed to use this feature commercially.

If you or your company has developed specific software and want to use D-Talks' Avatar and talking capabilities as the graphical interface, you just need to create a text **.txt** file with the text you want D-Talks to speak, and make your application save this file in the following folder from D-Talks' installation:

DTalksqueue\import

D-Talks' system monitors this folder continually while the software is running, and as soon as there is a **.txt** file saved in this folder, D-Talks will speak aloud the content of the text file.

9.1 Using D-Talks' Avatar to make presentations by Speaking Aloud text

The remote control feature can also be used for presentations using D-Talks' graphical interface and TTS voice. To do so, you just need to create several **.txt** text files with different content and copy and paste those files in the **DTalks\queue\import** folder. As soon as you save a **.txt** file with content in this folder, D-Talks will speak aloud the text file content and then delete the file. A good practice to make these presentations is by using two monitors, or connecting D-Talks to a projector.

10. GETTING HELP

Send a help request to support@denise.ai

or by visiting D-Talks' website and filling out the contact form.

Contact Page: <https://DTalks.ai/#support>

11. D-Talks MAIN INTERFACE



D-Talks' Graphical Interface

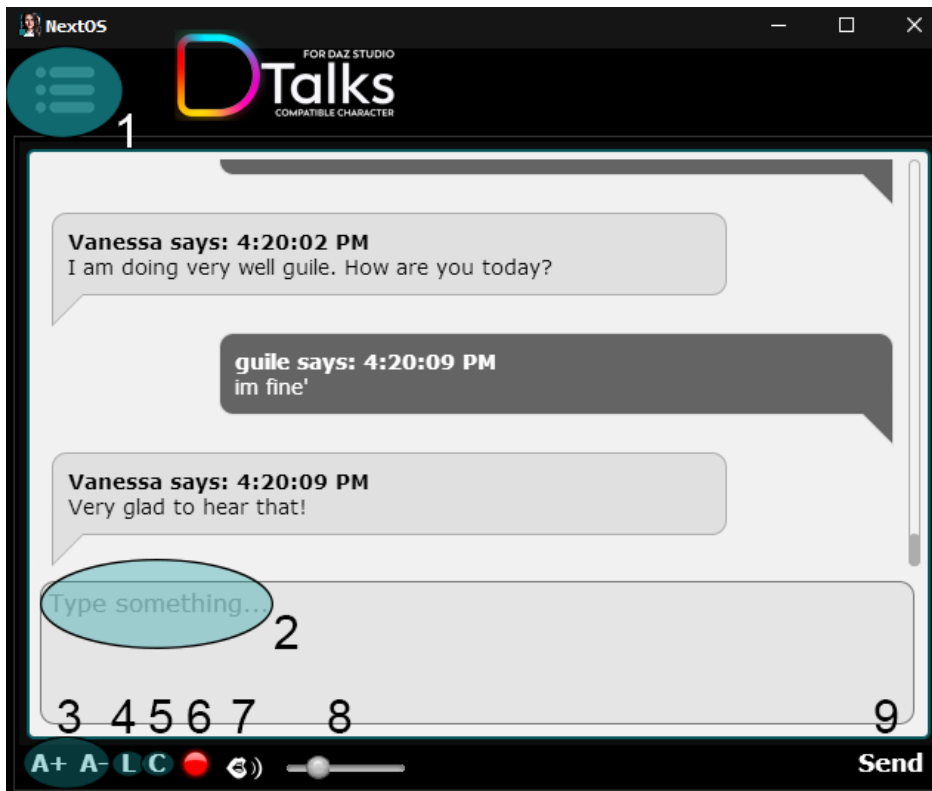
NextOS.ai has built its own real-time graphical engine from scratch. This interface is proprietary and does not use any third-party engine.

This engine has very powerful features:

- Avatars can use 16 million colors
- Avatars have a transparent background to hover on your windows desktop
- Real-time lip-syncing, using 24 mouth positions according to text-to-speech phonemes.
- Avatars can have a full body or just a head
- Avatars can have animations “while” they are talking
- Avatars can be dragged and dropped to any desktop position
- Avatars can have different resolutions and quality according to available RAM memory and CPU processor power
- Very low memory and CPU consumption
- Very realistic animations
- Double-clicking on Avatar’s face gets it big or small on-screen
- It allows to show extremely realistic Avatars that runs on any system.
- Users can now create custom Avatars by using the new Avatar Editor

11.1. D-Talks' Chat Window

The Chat Window is D-Talks' main interface.



1. Settings Menu
2. Chat Input box
3. Chat font size
4. Learning Mode
5. Correction Mode
6. Speech Recognition Status indicator
7. Mute Avatar's voice
8. Avatars voice volume
9. Confirm chat input (or hit "ENTER")

1. Settings Menu Button

Click this button to open D-Talks' Settings Window

2. Chat Input Box

This is where the text you type or speak will be displayed. If using typing, you need to hit "Enter" or click on the "Send" button. If using voice, the text from your voice will be transcribed and displayed in this box. The system will automatically simulate an "Enter" key after the speech recognition finishes transcribing the spoken text.

3. Chat Font size

Click this button to increase or decrease D-Talks' chat and menu font size

4. Learning Mode

Click this button to start the "Learning Mode". This feature allows you to enter a question and a correspondent answer to D-Talks' AI. To save the new content, click on the "Send" button.

5. Correction Mode

Click this button to change the last answer.

6. Speech Recognition Status indicator

Click this button to enable or disable D-Talks' Speech Recognition. If the circle is red, the Speech Recognition is disabled and you need to click on it to enable it again and turn it green. If you want to be able to start the SR system by voice, click this circle if it's red and speak the keyword "Go to Sleep" and "Wake Up".

Speech Recognition Circle icon colors:

- ❖ **Red:** Speech Recognition is disabled (keyword “Wake Up” does not work in this status)
- ❖ **Green:** Speech Recognition is enabled and waiting for the user to speak (In this state, you can speak “Go to Sleep” to have the SR disabled but waiting for the “Wake Up keyword”)
- ❖ **Blue:** Speech Recognition is enabled but not listening. Speak “Wake Up” to start speaking.

7. Mute Avatar’s voice

Click this button to make D-Talks stop talking.

8. Avatar’s voice Volume

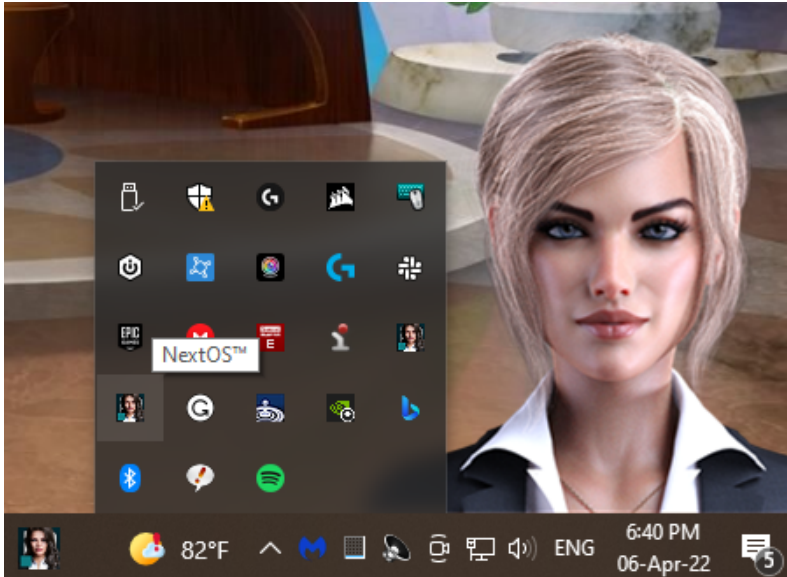
Click this button to turn down or up D-Talks’ voice volume

9. Confirm Chat Input (the same as hitting “Enter”)

Click this button to input your text if you’re typing it. If you are using Speech Recognition, the text will be transcribed and the system will automatically simulate the “Enter” key.

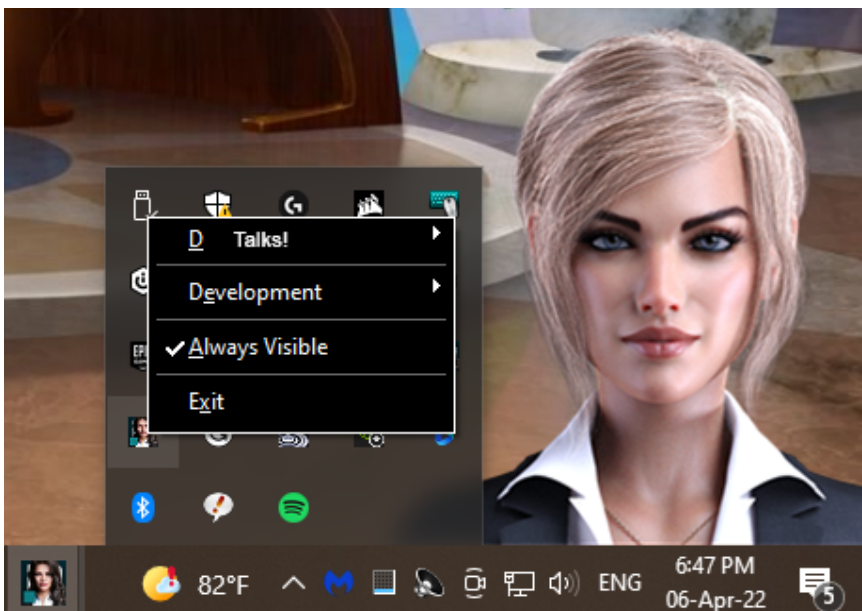
12. D-Talks TASKBAR MENU

When D-Talks is running on your computer, there will be a small icon in your Windows taskbar notification area. Click on it with the right mouse button to open a context menu.



This context menu has the options below:

- D-Talks
- Development
- Always Visible
- Exit



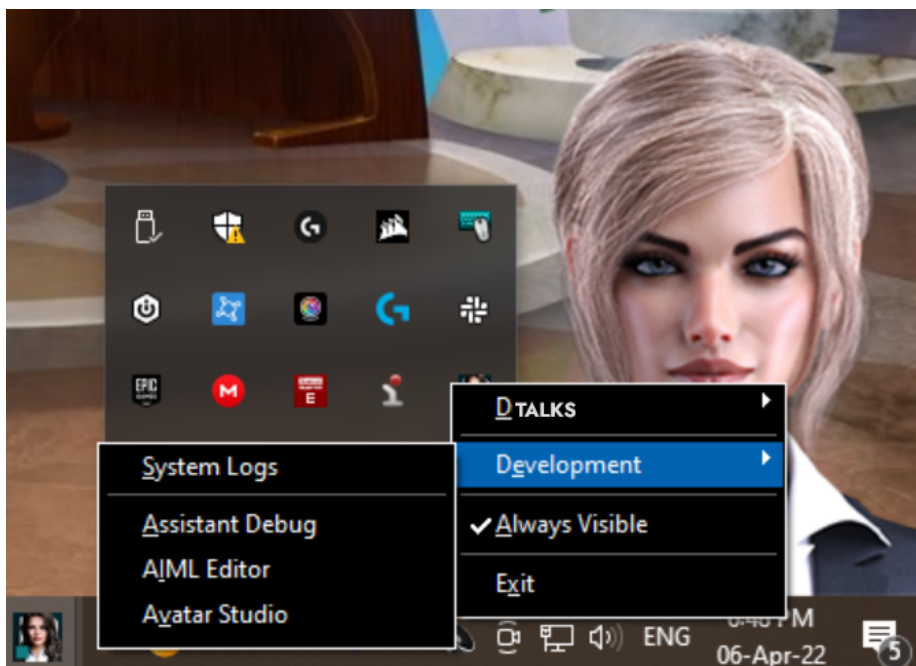
12.1 D-Talks menu option

Opens a sub-menu with three options:

- Maximized -> Shows D-Talks in full-size
- Normal -> Shows D-Talks in small size or Shows D-Talks' face if she is Minimized to the taskbar
- Minimized -> Hides, D-Talks, to the taskbar.

12.2 Development menu option

Left mouse-click on the “Development” option to show the subitems.



Opens a sub-menu with four options:

- **System Logs** -> Shows System Logs. Used for Customer Support
- **Assistant Debug** -> Tool for testing D-Talks' custom tags. (Read Content Editor User Guide for help on this)
- **AIML (Content) Editor** -> Opens D-Talks' Artificial Intelligence Content Editor (Read Content Editor User Guide for help on this (**Soon to be released**))
- **Avatar Studio** -> Opens D-Talks Avatar Studio tool (Read Avatar Studio User Guide for help on this) **If you get an error**, please run the **Avatar Studio Module** by opening the folder `\DTalks\modules\avatarstudio\bin\Win32` and double-clicking the file **“DTalksAvatarStudio.exe”**

13. WEB NAVIGATION USING VOICE

You can use D-Talks' Speech Recognition to control your web browser navigation. To do so, enable Speech Recognition (click on the chat circle to make it green)

Open your web browser and click in any place to make the browser the active window.

Web Browser Navigation

Speak:

- Page Down
- Page Up
- Line Down
- Lines
- Line Up
- Lines Up
- Next tab
- Back tab
- Back Page
- Forward
- Close

TIP: Select any text from the Web Browser and drag and drop it on D-Talks' face to make her read it aloud for you

14. KEYBOARD SIMULATION MODULE

Using D-Talks' Chat, you can simulate any keyboard key typing or mouse button pressing.

This can be used to remote control 3rd part applications that are running on your computer or to send a text to other Windows running applications.

Please read D-Talks' **Content Editor User Guide** for more details.

15. OPEN COMPUTER PROGRAMS, FOLDERS, APPLICATIONS, AND WEB PAGES

D-Talks can open and run any Windows applications installed on your computer as well as open website pages.

Type or Speak "Open" or "Run" followed by the name of the application, and "Go to" and the name of any website

Examples:

- Open Excel
- Run Calc
- Run Notepad
- Run Word
- Open My Documents (or "Open My Docs" or just "Docs")
- Open new Spreadsheet
- Open My Videos (or just "Videos")
- Open www.wikipedia.com or Open Wikipedia
- Go to CNN

Tip: Try different ways to ask for actions with D-Talks. She can understand natural language, which means speaking the same thing in different manners.

Note: Sometimes, D-Talks may not find a specific software even if you have this software installed on your computer. In these cases, you can create new custom AIML categories to run any application:

Example of an AIML category that runs an application:

```
<category>
```

```
<pattern>RUN PHOTOSHOP</pattern>
```

```
<template>Opening Photoshop. <Run="C:\ADOBE\Photoshop.exe"></template>
```

```
</category>
```

Please read D-Talks's **Content Editor User Guide** to understand the creation of custom AIML categories.

16. D-Talks' LEARNING FEATURES (These features may not be fully available and working in this version. We will soon update D-Talks to add and improve this module.)

D-Talks is a dynamic learning entity, almost like any organic type of life. Her artificial intelligence and knowledge will grow at a very fast pace.

D-Talks can learn

1. When you talk to her
2. When you implicitly teach her
3. Typing the sentence "Question (something) Answer (something)" or "When I say (something) Answer (something)"
4. By editing her sample AIML Content files
5. By using your custom AIML Content files
6. By herself from randomly searching and getting relevant data from the Internet based on your history of conversations and personal preferences and likes. This data is encrypted on your computer hard drive, and no one has access to it.

Note: The best way to teach D-Talks and add new content or change its existing content is by using the companion **Content Editor Tool**.

- **AIML:** AIML Stands for Artificial Intelligence Markup Language. It's an XML dialect for creating natural language applications, developed by Dr. Richard Wallace and a worldwide free software community. Applications using this technology have already won the annual Loebner Prize Contest for Most Human Computer three times and were also the Chatterbox Challenge Champion in 2014.

Important: For further information about the AIML language and D-Talks' custom tags, please refer to the **Editor Content** user guide.

- I. When you talk to her

Every time you chat with D-Talks, she will try to get something new from your conversation. Not everything will be remembered. She will try to get just what she thinks is relevant about you and your life, so sentences contain:

.... I am

.... I have

.... are

.... is

.... have

.... will go

.... is from

.... means

.... was

And many other keywords will try to get and memorize important information about the conversation. Note that not all knowledge may be acquired by D-Talks using those words.

II. When you implicitly teach her

You can implicitly tell D-Talks to learn something new, typing the word “Learn” or “Learn that” before a sentence.

In this first version, Learn will work if your type sentences containing the following words:

- Learn ... are
- Learn ... has
- Learn ... have
- Learn ... is
- Learn ... is a
- Learn ... is an
- Learn ... is from
- Learn ... is going
- Learn ... lives in
- Learn ... means
- Learn ... was
- Learn ... will be
- Learn I am
- Learn I have
- Learn I will

This learning method automatically creates several AIML new categories in a file named “User.aiml”, located in the folder “(D-Talks main install folder)\modules\aimlengine\aiml\users\ (user name)”

As an example, typing “**Learn The Sun is hot**” in D-Talks’ chat window creates the AIML categories in the “User.aiml” AIML file:

- What is The Sun?
- What is hot?
- Who is The Sun?
- Where is The Sun?
- When is The Sun?
- The Sun is hot.
- Is The Sun hot?

So, next time you ask D-Talks “What is hot?” she will answer, “The Sun is hot”

Important: All new knowledge learned by D-Talks will just be available after you restart the D-Talks system by closing and reopening her.

Important: We do not advise you to use this method, as you can create multiple similar categories that will “shadow” each other. In the sample above, you could create several categories with the same question, “What is hot”. If you have several categories with the same question, the system will randomly choose one of them, which cannot be the correct one. Give preference to the **Content Editor Tool** to create new content for D-Talks’ Intelligence.

Note: If you create a new AIML category that already exists in D-Talks’ core AI Brain, your new category can be “Shadowed” by D-Talks’ own category. This means that your new category can never be triggered. By default, your custom content will always try to be triggered first.

III. Typing the sentence “Question (something) Answer (something)”

You can add a new Question / Answer type of knowledge to D-Talks by typing in her chat window a sentence with the following structure:

- Question (something) Answer (something)
- When I say (something) Answer (something)

Examples:

- Question What is the temperature on Mars? Answer The temperature is typically about -63 C or -81 F.
- Question What does UNESCO stand for? Answer UNESCO is the acronym for United Nations Educational, Scientific, and Cultural Organization.

This learning method automatically creates several AIML new categories in a file named “User.aiml”, located in the folder “(D-Talks main install folder)\modules\aimlengine\aiml\users\{user name)”

Example of the created AIML category in file “User.aiml”:

```
<category>
<pattern>What is the temperature on Mars?</pattern>
<template>The temperature on Mars is typically about -63 C or -81 F.</template>
</category>
```

IV. By editing her sample AIML files

D-Talks comes with extended written content that is shared among several .AIML editable files. You can use these files as a reference for building your own files or translating to other languages.

You can find these AIML files in your folder “(D-Talks main install folder)\modules\aimleditor\AIML Source Code

Please **read carefully** the text below to understand how to use AIML files with D-Talks.

At startup, D-Talks loads all AIML files located in \D-Talks main install folder)\modules\aimlengine\aiml\en

These AIML files are encrypted, so you cannot work directly on them.

Important: Before using any sample AIML file found in“(D-Talks main install folder)\modules\aimleditor\AIML Source Code, make a copy of those in another folder. **Work with these backup files if you’d like to make changes because the original editable AIML files can be overwritten in future system upgrades.**

Use NextOS.ai AIML Brain Editor to open, edit, save and cryptograph your modify AIML files.

Make a backup of your AIML files.

Finally, copy your modify AIML files in D-Talks’ DTalks\bin\Database\AIML\ (your language chosen from D-Talks’ Setup. Default is EN for English). This will overwrite D-Talks’ original English files.

Important: Since D-Talks’ original AIML files can be updated frequently by NextOS.ai, you will have to overwrite these files with yours every time there is a system update. If you are working with custom AIML files not based on the ones that come with D-Talks, this will not be necessary. (Read next item below 5- By using your custom AIML files)

Note: All new AIML files will be available after you re-start D-Talks system by closing and reopening her.

V. By using your custom AIML files

If you already have a set of AIML files (in any language), you will need to:

- Open them with D-Talks’ Content Editor
- Add or modify any category if wanted
- Save and cryptograph them in \modules\aimlengine\aiml\users\ (user name)

These AIML files will be loaded next time you run D-Talks, in conjunction with D-Talks’ own AIML files.

Note: If your AIML files have categories that already exist in D-Talks’ core AI Brain, these categories can be “Shadowed” by D-Talks’ own categories. This means that your custom category can never be triggered.

Note: Read D-Talks’ Content Editor Manual for more details on using your AIML file with D-Talks.

Important: Always make a backup of your custom AIML files.

17. D-Talks OVERALL FEATURES

10.1. Customizing D-Talks' Speech Recognition Voice Commands

We are working on a new feature to enable users to add custom Voice Commands. This will be available soon as a free update for D-Talks Platinum Version customers.

10.2. AIML NextOS.ai Custom Tags

Please read NextOS.ai AIML Custom Tags Manual for details

If you'd like to translate D-Talks' Interface to any other language, please send an e-mail to support@denise.ai and we will send you instructions about this process.

10.3. Making D-Talks stop talking

Sometimes, D-Talks can get a large amount of text to speak at once from a web result or other large text answer.

To make D-Talks stop talking:

Using Keyboard:

Type in Chat:

- Quiet
- Stop talking
- Silence

By clicking on the small white "mouth" icon at the button of the chatbox.

10.4. Date and Time

Using Keyboard:

Type:

- Date
- Time
- What time is it?
- What day is today?
- What's today's date?

Using Voice:

Say:

- Date
- Time
- What time is it?
- What's today's date?

10.5. Text Reading Feature

You can make D-Talks read aloud any text, documents, or web page content.

Using your mouse's left button, select the text. With text selected, click on it with your mouse's left button and drag and drop it onto D-Talks' face.

Note that not all applications allow you to drag and drop text.

10.6. Free Chat with D-Talks

You can free chat with D-Talks about anything. She has great overall knowledge of many subjects, and her talking capability will continue to grow and improve with time.

Some fun things to ask D-Talks:

Using Keyboard:

Type in Chat:

- Tell me a Joke
- Tell me Poem
- Tell me a Story
- Give me an advice
- Say something nice

Using Voice:

Say:

- Tell me a Joke
- Tell me Poem
- Tell me a Story
- Give me an advice
- Say something nice

10.7. Shutting down and Restarting the computer

Using Keyboard:

Type in Chat:

- Shutdown
- Computer Shutdown
- Turn the computer off
- Restart
- Restart computer

Using Voice:

Say:

- Computer Shutdown

- Restart computer

10.8. Closing D-Talks Application

Using Keyboard:

Type in Chat:

- Exit
- System Close
- System Shutdown
- Off
- Disconnect

Using Voice:

Say:

- System Close
- System Shutdown
- Exit

10.9. D-Talks Screen Position and Quick Size Change

Using Keyboard:

Type in Chat:

- Big
- Get Big
- Small
- Get Small
- Go away
- Bottom Left
- Top Right

Using Voice:

Say:

- Get Big
- Get Small

Note: You can also make D-Talks get big and get small by double-clicking on her face.

18. GENERATING AUDIO FILES FROM TEXT

You can make D-Talks! to generate audio files (.wav) from text automatically for you.

To do so, create a text **.txt** file with the text you want D-Talks to convert to audio, and save this file in the following folder from D-Talks' installation:

DTalk\squeue\import

D-Talks' system monitors this folder continually while the software is running, and as soon as there is a .txt file saved in this folder, D-Talks will speak aloud the content of the text file, or in this case, convert text to audio.

In the text (.txt) file, you need to write the following code:

```
<AgentSpeakToFile="Hello world! I am so happy to be here my friend Guile"  
Filename="d:\test.wav">
```

This will convert the text "Hello world! I am so happy to be here my friend Guile" into an audio file. Please choose to save the .wav file in another hard drive other than the C: drive, as this may require Windows privileges, and the file may not be saved. Instead, save the file on the D:/ HD or to an external USB Pendrive.

Save this .txt file in the following folder from D-Talks' installation:

DTalks\queue\import and search for your audio file in the D: drive

19. TROUBLESHOOTING

If you need assistance at any point, please send us a support message at support@denise.ai

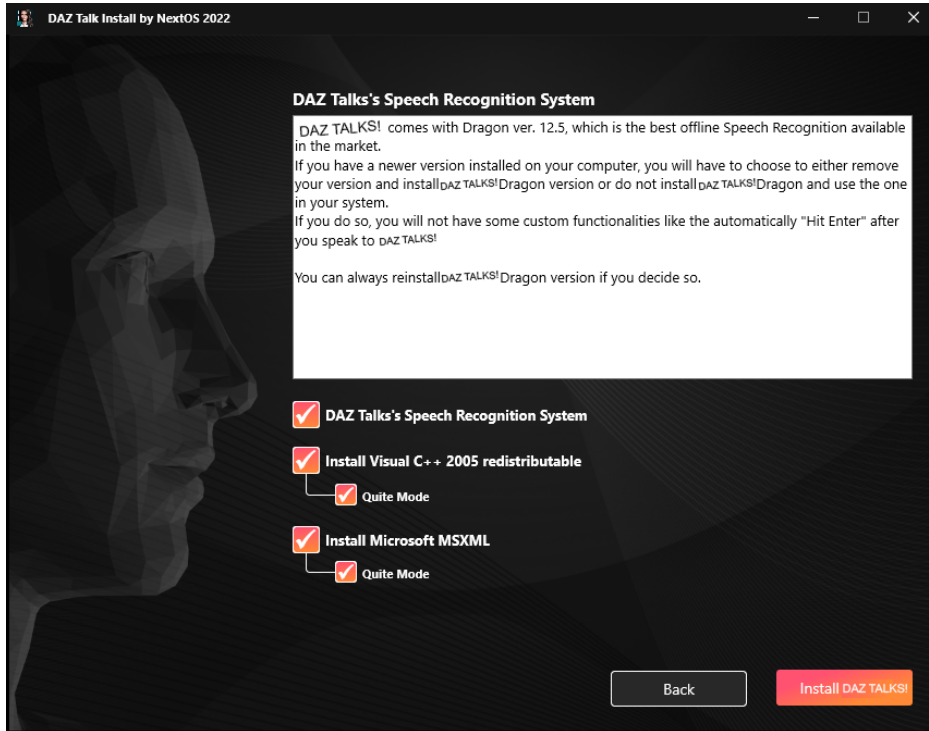
We'll do our best to answer you as fast as possible.

These are the most common issues some user's reported when installing or running D-Talks:

1. I can't install D-Talks, or the installation system does not complete.

This is probably due to a firewall or anti-virus. Because the installation file is a .exe file, both Windows and anti-virus may understand it a treat. Please disable your anti-virus and firewall before installing D-Talks. Right-click on the install file to avoid installation problems and choose "Run as Administrator"

If at some point you note that the progress bar has stopped, you may need to cancel and start again by changing the options below. For instance, you may already have the C++ installed on your system. Try unchecking this option as well as the suboption "Quiet Mote". It may also be necessary to uncheck the "Install Microsoft MSXML" to make the installation complete successfully.



2. I could install D-Talks, but it's not opening.

Before installing D-Talks, make sure you have both Windows Media Player and Windows Internet Explorer, or Microsoft Edge installed on your computer.

3. I cannot make the Speech Recognition work, or I cannot train my voice.

If you had a previous installation of D-Talks on your computer, you need to remove the Speech Recognition system. To do so, open folder \modules\dictation\install and run the file "dragonremover.exe" and reboot your computer before installing D-Talks.

4. When trying to run D-Talks, I receive a message that it could not find my registered e-mail or a need for a license reset.

This usually happens when Windows does an update, or your anti-virus blocked D-Talks from running. To request a license reset, please send us a support message at support@denise.ai

5. Reinstalling D-Talks.

If for some reason you need to **reinstall DTalks**, you only need to completely delete the folder \DTalks. When running the installation file, you may get a warning that the installer detected a previous installation and asks if you want to update it. Please ignore this message and click no to continue the installation.

6. I forgot my username or password.

If after a new installation or any other reason you cannot login to D-Talks because you forgot your username or password, please close D-Talks, open the folder \DTalks\database and double click the file “reset.bat”. Run D-Talks! and chose your user name and password again.

7. When I chose a different Avatar in the Setting option, the avatar does not show up

If after changing the Avatar, it does not shows up on your screen, go the the chat box and type “SHOW”

20. FOLLOW US ON SOCIAL MEDIA

Thank you so much for your support and for being with us!

D-Talks! Software and its additional modules, avatars, and plugins are available on [NextOS DAZ3D website Store](#).

D-Talks! originated from the Virtual Assistant Denise, one of the first digital assistants ever available released in 2007. Fifteen years later, she came back with updated code and new modules. Today in the format of the D-Talks! framework, she continues to be a unique software, and we have big plans for her! Please follow us on the DAZ3D Forums and on our Facebook page.

Thank you again and thanks to the amazing team at DAZ3D company. Welcome to NextOS.ai and D-Talks' world!

Please don't hesitate to contact us at guile@nextos.ai

NextOS.ai Team – August 2022

Facebook: [DTalks Facebook Page](#)

Instagram: [DTalks_Software](#)

Support: support@denise.ai

Webpage: www.dtalks.io (under construction)