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Text-to-speech or TTS system converts normal text into Speech. This tech enables the system to speak out the text in a human voice. There are many examples of Text to Speech conversions like the announcements at public transport, the customer care calls, voice assistants in your smartphones, or the navigation menu of any machine. You can even find the TTS in Microsoft Word where you set it to speak out the text written in the document. Today in this tutorial, we will learn how to make Text To Speech converter using Arduino. We previously used TTS with Raspberry pi in speaking Alarm clock and also converted speech into text in raspberry pi by using Google voice keyboard. The first step in TTS is pre-processing or normalization. This step involves the conversion of the symbols, numbers and abbreviations into words that can be read by the machines like '?' will be converted into "question mark". The second step involves the conversion of normalized text into phonemes or phonetic transcripts. The phonemes are the small parts of spoken words i.e. these are the sounds that make sentences. This step is really essential so that machine can speak the words as humans do. The last step is the synthesis of phonemes into spoken voice. This step can be achieved by different methods like by recording the human voice for different words/phrases or by generating basic sound frequencies and pile them up as phonemes or by copying human speaking mechanism. Required Components Arduino board A speaker An Amplifier Circuit Regulated Power Supply Connecting Wires Circuit Diagram Here in this Text to Speech converter, we've used an amplifier circuit to reduce the noise and get a clear sound. The amplifier circuit is made by using the IC LM386. Circuit diagram for it is shown below: A 100K pot is used to adjust the sound. Adjust it to get a clear sound. If you have any confusion about this circuit then check out LM386 Based Audio Amplifier Circuit. If you don't have the exact value of resistors and capacitors then use the close value ones. Connecting Speaker to Arduino The connections are super easy once you make the amplifier circuit. Connect the power supply to the amplifier circuit and connect the digital pin 3 of your Arduino to 10K resistor and connect the ground of Arduino to ground of the circuit. Now connect the speaker by connecting its negative terminal to ground and positive terminal to the 220µF capacitor and connect the power supply. Programming Arduino for TTS (Text To Speech) The program for this Arduino based TTS is also very easy as the library is available for this. This library is called as Talkie and it can be added by library manager. To add the library, go to Sketch->Include Library->Mange Libraries. Now the Library Manager will be on your screen. In the search bar type Talkie and click on the install button. The library will get installed. This library is very handy and it has over 1000 words and commands. It has several examples, you can try them all but here we are using a simple code to explain the working. You can also try other commands given in library. To get those commands, go to the Documents\Arduino\libraries\Talkie\src and then open the header files and get several commands that can be used for different alerts. There are many other TTS libraries like js crane TTS library, google TTS library etc. You can also try them out. So let's start coding. Firstly include some header files. Talkie.h is used to initialize this library and set the Digital pin 3 of Arduino as output pin. The Vocab_US_Large.h is used to use the alerts we are using and Vocab_Special.h is used to use the pause we are using. #include "Talkie.h" #include "Vocab_US_Large.h" #include "Vocab_Special.h" Now define an object 'value' to use the commands: Talkie voice; Here the same message will be repeated in the speaker so keep the setup function empty and put the commands in loop function. The first command voice.say(spAUSE2) is to take a short pause while repeating the alert message. And the next commands are just simple words that imply: DANGER DANGER STORM IN THE NORTH. void setup() { } void loop() { voice.say(spAUSE2); voice.say(sp2_DANGER); voice.say(sp2_DANGER); voice.say(sp3_STORM); voice.say(sp3_IN); voice.say(sp3_THE); voice.say(sp3_NORTH); } Finally upload the code in the Arduino and connect the power supply to it. As soon as you power up the circuit you will start hearing the alerts! If you don't get a clear sound then try adjusting the knob of pot or check if the Arduino is getting proper power supply and make sure that the GND of Arduino is connected to ground of the circuit. Check the complete code with a demonstration Video are given below. #include "Talkie.h" #include "Vocab_US_Large.h" #include "Vocab_Special.h" While Discord is a great platform for voice communication, you might not be able to (or want to) speak with your own voice. To get around the problem, you can use Discord's built-in text-to-speech (TTS) feature. You can use text-to-speech on your own Discord server, or on another server with a text-to-speech enabled channel. These steps only work for Discord users on Windows or Mac, as Discord's text-to-speech capabilities are unavailable to Android, iPhone, or iPad users. RELATED: How to Set Up Your Own Discord Chat Server Enabling Text-to-Speech on a Discord Server If you want to use text-to-speech on Discord, it'll first need to be enabled in a channel on your server. If you're the server owner or administrator, you can do this in your channel settings. To change your channel settings, access your server in the Discord desktop app or on the Discord website. From the channel listings, hover over a channel name and then click the "Settings" gear icon next to it. In the "Settings" menu for your channel, select the "Permissions" tab on the left-hand side. If you have roles for individual groups of users, select the role from the "Roles/Members" list, otherwise select the "@everyone" option. A list of available permissions will be shown on the right. Make sure to enable the "Send TTS Messages" option by clicking the green check icon to the right of it. At the bottom, select "Save Changes" to save the updated role setting. Once enabled, users with that role (or every user, if you selected the "@everyone" role) will be able to send text-to-speech messages in the channel you modified. You'll need to repeat these steps if you wish to enable text-to-speech in other channels. Using Text-to-Speech On Discord If you're in a channel on Discord with text-to-speech messages enabled, you can send a TTS message by typing /tts in the chat, followed by your message. For instance, typing /tts hello will activate your browser or device's text-to-speech capabilities, repeating the word "hello" along with the nickname of the Discord user who sent the message. The message will also be repeated in the channel as a text message for all users to view. Muting All Text-to-Speech Messages on Discord If you aren't a server owner or administrator, or you just want to mute all text-to-speech messages, you can do so from the Discord user settings menu. To access this, click the "Settings" gear icon next to your username in the bottom-left corner of the Discord app or website. In your "User Settings" menu, select the "Text & Images" option on the left. Under the "Text-To-Speech" category on the right, click the slider to disable the "Allow playback and usage of /tts command" option. Disabling this setting will disable text-to-speech for you on Discord, regardless of each individual server or channel setting. You'll be able to read the text element of a text-to-speech message as normal in the channel, but you won't be able to hear it repeated to you. You'll also be prevented from using the /tts command yourself. You'll need to repeat these steps and reenable the option in your user settings if you wish to use it yourself later. View Discussion Improve Article Save Article Like Article ReadDiscussView Discussion Improve Article Save Article Like Article There are several APIs available to convert text to speech in Python. One of such APIs is the Google Text to Speech API commonly known as the gTTS API. gTTS is a very easy to use tool which converts the text entered, into audio which can be saved as a mp3 file. The gTTS API supports several languages including English, Hindi, Tamil, French, German and many more. The speech can be delivered in any one of the two available audio speeds, fast or slow. However, as of the latest update, it is not possible to change the voice of the generated audio. Installation To install the gTTS API, open terminal and write pip install gTTS This works for any platform. Now we are all set to write a sample program that converts text to speech. from gtts import gTTS import os mytext = 'Welcome to geeksforgeeks!' language = 'en' myobj = gTTS(text=mytext, lang=language, slow=False) myobj.save('welcome.mp3') os.system("mp321 welcome.mp3") Output: The output of the above program should be a voice saying, 'Welcome to geeksforgeeks!' This article is contributed by Akhil Goel. If you like GeeksforGeeks and would like to contribute, you can also write an article using write.geeksforgeeks.org or mail your article to review-team@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks. Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.

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