**Installing Required Packages**

You need to install the **PyPDF3**, **pyttsx3**, and **pdfplumber** packages to get started. You can install these packages using the pip package manager. Make sure you have already [**installed pip on your system**](https://www.makeuseof.com/tag/install-pip-for-python/). Run the following command in the command prompt to install the packages:

pip **install** PyPDF3 pyttsx3 pdfplumber

* You can use the **PyPDF3** library to read and edit PDF files in Python.
* The **pyttsx3** library provides text-to-speech conversion.
* **pdfplumber** is a library that lets you extract text and tables from PDF files.

The code used in this project is available in a [GitHub repository](https://github.com/makeuseofcode/PDF-to-Audiobook) and is free for you to use under the MIT license.

**Converting a PDF to an Audiobook Using Python**

Once you’ve installed the above packages, you’re ready to import them into your python file:

**import** PyPDF3  
**import** pyttsx3  
**import** pdfplumber

You need to provide the name and location of the PDF file you want to convert. For the sake of simplicity, you can use any sample PDF file. Copy it to the same directory as your script and store its name in a variable; if it's called **Lorem.pdf**, for example:

file = 'Lorem.pdf'

Next, create a file object for the PDF file and a PDF reader object:

book = open(file, 'rb')  
pdfReader = PyPDF3.PdfFileReader(book)

Later, you’ll loop through all the pages of the PDF file. To find the total number of pages, use the **numPages** property:

pages = pdfReader.numPages

Now, you're ready to extract the text from the PDF file:

finalText = ""  
   
**with** pdfplumber.open(**file**) **as** pdf:  
    for i in range(0, pages):  
        page = pdf.pages[i]  
        text = page.extract\_text()  
        finalText += text

Use a for loop to iterate through all the pages and extract the text from the PDF. You can use the pdfplumber package to open the pdf file and the **extract\_text** method to fetch text from a page.

With the full text stored in a variable, you can process it further, depending on your requirements. If you want to convert the text into audio and save it into a new file, use the following code:

engine = pyttsx3.init()  
engine.save\_to\_file(finalText, 'lorem.mp3')  
**engine**.runAndWait()

When you [**run this Python code**](https://www.makeuseof.com/run-python-script/), it will create an audiobook file in its directory.

If you don't want to save the audiobook and, for example, want to recite the PDF file, you can use the following code instead:

engine = pyttsx3.init()  
**engine**.say(**finalText**)  
**engine**.runAndWait()

When you run this script, it will recite the PDF file.

**Develop Projects Using Python**

Python is known for its versatility. You can easily create projects with practical applications using Python.

If you're looking to get your hands dirty with Python code, you can start by developing mini-projects. Some good starting ideas are a quiz app, chatbot, snake game, URL shortener, web scraper, or unit converter.