

Uipath read pdf text not working

I'm not robot!

Two potential solutions. Use UiPath Document Understanding You can get a certain amount of DU Data on the Community License, then you can setup the templates and use anchor bases, token selection, custom area selectors etc. Read Lines Approach Convert the PDF to Text. Have a look through the extracted Text and find a phrase/keyword that you could use as your anchor. Going by your example you might use "Total: " Then use Invoke Code (I'll use C# for below example) Arguments: in\_text (the text from the PDF) | out\_totalAmount Code: var invoiceTotal = File.ReadLines(in\_text).Last(e => e.StartsWith("Total: ")).Trim(); out\_totalAmount = invoiceTotal.Split(new []{":"}).LastOrDefault();

In the previous lesson, we learned how to record interactions from a web browser. In this lesson, we'll learn how to scrape text from a document. We'll accomplish this task in three key steps. First, we'll define screen scraping. After that, we'll learn about the different options for scraping text. Finally, we'll demonstrate how to scrape texts from an application using UiPath. We'll start by defining screen scraping. Screen scraping is the process of extracting display data from one application and translating it for use in another application. This process is generally used to extract text or image data from documents. Text in some formats, such as word documents, can be easily extracted via copy and paste tools. However, extracting this data in volume or extracting text from scans of physical documents can be a bit trickier. Let's move on to step two and learn about the different screen scraping options available in UiPath. The first option is full text. This option rarely has compatibility issues, and it can usually interpret any type of text whether it's from a desktop application or within an image. It also works in the background, is very fast, and can get hidden text from the interface. It can't get the text position, so we should use it when getting the text position is not necessary. The next option is native. It occasionally has compatibility issues and it does not work in the background. It's fast, but generally not as fast as full text, and it can't get hidden text. It can get the position of text. So, native should be used when getting the text position is necessary. The final option is OCR or optical character recognition. This is a text scraping option that is used by many different applications, including UiPath. It occasionally has compatibility issues, can not work in the background, and can not get hidden text. But, it can get the text position. It's also generally slower than the other two types. As a result, OCR should only be used if the other two types don't work as intended. For example, it tends to perform very well when working with texts and images, which can sometimes be a challenge for the other two options. Let's now move on to step three and see how to scrape text with each of these methods. In this case, we'll focus on scraping texts from the first page of this PDF from the US Census Bureau. We'll start with a blank process and our PDF open in the background. We'll then navigate to the ribbon and select screen scraping, which minimizes UiPath and allows us to choose from a range of UI elements. We'll select the entire visible text area. After a short wait, the screen scraper wizard appears. On the right, we can see that we used the full text method. In the preview section to the left, we can see all of the text that was just scraped. Notice that this method did not scrape the title of the document. Let's look at how the other methods handle this document. We'll open the scraping method dropdown, select OCR, and click refresh. This method not only scraped the full text, but also the document title. This is most likely because the title element in this document is formatted as an image. So, the OCR method is able to read it while the full text method is not. Notice that the OCR method has options for configuring specific parameters to better match our intended results. These are beyond the scope of this course, but you should play around with them in your free time. We'll now try scraping the document with the native method. Unfortunately, native couldn't extract any text. Since this PDF contains images, the native method is viewing the entire page as an image. Native requires actual text as it can not interpret images containing text. Let's select an element that native should be able to read. We'll select indicate UI element and then select one of the text sections. This returns the selected text in one line. If you recall, the native method can also give us a position of the text. Let's see this functionality. We'll select get words info and click refresh. The text components are now all on separate lines, but adjacent to each piece of text is a list of numbers which are effectively coordinates for the position of the text. Now that we've seen all the different scraping methods, we'll select finish which adds a screen scraping sequence to our canvas. Let's stop the lesson here and recap what we've learned. First, we learned what screen scraping is. After that, we learned about the different options for scraping text in UiPath. Finally, we demonstrated how to apply each of these screen scraping methods. In the next lesson, we'll learn how to extract texts from PDF files with multiple pages. Just Dial is an online search engine that hosts thousands of services, sellers, dealers, shops, and owners who publish their information to connect better with customers and other businesses. This website uses a lot of features that do not allow us to scrap the website easily. They use image-based phone numbers, as a result, the information is not stored inside a webpage element. We need to use OCR technology to read the numbers from the image. This tutorial will focus on overcoming these issues and scraping the available information into the desired format. This is how a basic just dial page looks like. The dealer/manufacturer name, address, and even the images can be scraped very easily. However, the phone numbers are displayed in an image format, and hence Get Text does not work. In the above image, "07947161351" has 11 images stitched together to form the final image. Therefore, each digit is associated with a different image. To solve this problem, we will use Get OCR Text, which will use Tesseract OCR technology to read the information from the website. Clicking on "Indicate on-screen" redirects the user to select the element to be extracted. Upon successfully selecting the element containing the phone number, UiPath will map the selectors and assign it to the Get OCR Text activity. We will save the output to a string variable, Phone using the Properties panel. Finally, the extracted text will be written in the Output Panel using the Write Line activity On executing the sequence, UiPath is able to grab the information and print it on the Output Screen as evident from the image It is important to note that, Get OCR Text only works when the image is visible on the user's screen. If the element is hidden, it requires to be scrolled up. OCR fails to recognize the information within the element when it is not visible. UiPath PDF Data ExtractionPDF has been one of the most reliable formats to store data. From hyper-growth companies to small enterprises each and everyone stores data of various kinds in such format. But, imagine if you had to extract the raw data from these PDF documents. Would it be possible to do it manually? Well, the simple answer is no, as it is quite a tedious task, but, if you are familiar with certain services in automation, then you can easily automate this process.This blog on UiPath PDF Data Extraction will brief you on all the activities that UiPath offers to extract data from PDFs, whether in native text format or scanned images. To make it easy for you to understand, I have divided this article into the following two sections: Extracting Large Texts Extracting Specific ElementsLet's get started now.Now, before you actually start extracting data, one important thing that you need to make sure is that you have UiPath.PDF.Activities, from the Manage Packages Section installed on your system. Once you chosen the package, click on Save and the package will start getting installed. Refer to the snapshot below.Fig 1: Snapshot of Manage Packages – UiPath PDF Data ExtractionBefore we move on if you wish to learn about extracting data from PDFs using UiPath, you can refer to the following video. This video will help you gain hands-on experience in data extraction. This session on UiPath PDF Data Extraction will cover all the concepts on how to extract data from PDFs using UiPath.Now, that you know which package has to be installed, let me quickly tell you how to extract large texts in PDF documents.Extracting Large TextsThere can be instances where, we have a document completely full of text, or a mixture of text and images. Well, extracting large texts pertains to such kind of documents where the documents contain only text or a mixture of both texts and images.There are mainly two options that UiPath, offers to extract large texts. Those Activities are: Read PDF Text Activity Read PDF with OCR ActivityApart from these, we also have the Screen Scraping Wizard. Let us start with the Read PDF Text Activity.Read PDF Text ActivityThe Read PDF activity is used to extract data from the PDF files which have Text only. So, in case there is an image in the PDF, this activity would not be the right activity to be chosen, as it would not extract the data present in the image.Let me show you how you can use this activity. But, before that, you can refer to the snapshot below, which showcases the sample PDF file that I am going to use for this blog. In the PDF document, the upper part is Text, and the quoted section is an image.Now, I am going to create a sequence, in which I am going to mention the directory of PDF from which the data has to be extracted and I am going to write the output in a message box.NOTE: You can write the output to any format of files such as Write Text File, Write Line, Write Cell Activity and so on.Step 1: Create a Sequence and rename it if you wish to do so. Here, I have renamed it to Extract Text.Step 2: Drag and drop the Read PDF Text Activity. In the activity, mention the path of the PDF Document from which data has to be extracted.Step 3: Now, in the Properties Pane, of the Read PDF Text Activity, mention an output variable to see the output. To set an output variable, press on CTRL + K, and give a name. Here I have mentioned as output.Step 4: After that, drag and drop a message box in the sequence and then mention the output variable in it.Your complete sequence and the output should look as shown in the below snapshots, respectively.Fig 2: Snapshot of Read PDF Text Activity with Output – UiPath PDF Data ExtractionHere, you can clearly see that the text present in our image was not extracted, and only text present in the sample PDF document was extracted. So, that's how you folks can use the Read PDF Text Activity.Now, moving onto the next activity which is the Read PDF with OCR Activity.Read PDF with OCR ActivityThe Read PDF with OCR Activity is used to extract data from the PDF documents which have both Text and Images. So, if you have any images apart from the text in the document, this activity would extract data from those images and give a Text output.As the activity's name suggests, this activity uses optical character recognition to scan the images inside the PDF document and output all the text as a variable. So, for that, it needs an OCR Engine. In the Activities Pane, if you search for OCR Engine, you will get a list of installed engines. Refer to the snapshot on the right side.Now, I am going to create a sequence, in which I am shall mention the directory of PDF from which data has to be extracted and I am going to write the output in a message box. The only difference is, you will see the text in the image also getting extracted.Follow the below steps, to create automation for extracting text present inside images.Step 1: Create a Sequence and rename it if you wish to do so. Here, I have renamed it to Extract Text with OCR.Step 2.1: Drag and drop the Read PDF with OCR Activity. In the activity, mention the path of the PDF Document from which data has to be extracted.Step 2.2: Now, search for an OCR Engine, and drag and drop an OCR Engine based on whichever is installed. Here I have used Google OCR Engine.Step 3: Now, in the Properties Pane, of the Read PDF with OCR Activity, mention an output variable to see the output. To set an output variable Press on CTRL + K, and give a name. Here I have mentioned as output.Step 4: After that, drag and drop a message box in the sequence and then mention the output variable in it.Your complete sequence and the output should look as shown in the below snapshots, respectively.Fig 2: Snapshot of Read PDF with OCR Activity and Output – UiPath PDF Data ExtractionHere, you can clearly see that the text present in the image of the sample document got extracted. So, that's how you can use the Read PDF with OCR Activity.Alright, now before I end this part, let me mention a few important pointers about Read PDF with OCR ActivityKey Pointers In the Properties Pane of Read Text Activity and Read PDF with OCR Activity, we have a parameter called Range. This parameter is used to mention the range of page numbers (1, All, 2-10 10-All), from which data has to be extracted. Both the above-mentioned activities are self-contained, i.e. they don't need other applications open. So, these activities can execute your tasks even if your PDF Documents are not open on the screen. Now, apart from the above activities, there is another way to extract data, i.e. by using Screen Scraping Wizard present inside the Design Tab.Screen Scraping WizardScreen Scraping Wizard is a feature provided by UiPath to scrape data from many platforms.To use this wizard, you can follow the below steps, by keeping your PDF Document open.Step 1: Click on the Screen Scraping icon, and select the section in the PDF Document you want to extract.Step 2: Then you will be redirected to the Screen Scraper Wizard that you can see below, with the extracted text. Now, over here you have an option for the Scraping Method (Native/ Full Text/ OCR). Choose the method that you wish and click on Finish.Fig 3: Snapshot of Screen Scraper Wizard – UiPath PDF Data ExtractionStep 3: Once you click on Finish, the Scraping Wizard will return you to your Sequence. Over here add a message box to see the output and mention the output variable, that is mentioned in the 'Get Full Text /Get OCR Text' Activity in the returned sequence. Here the variable name was 'AvlAvview', which I mentioned in the message box.Your complete sequence and the output should look like the below snapshot.Fig 4: Snapshot of Screen Scraping and Output – UiPath PDF Data ExtractionHere, you can clearly see that the text present in the image of the sample document got extracted, along with the text present in the document. So, that's how you can use the Screen Scraper Wizard to extract both text and images.Now, moving on to our next section, i.e. Extracting Specific ElementsExtracting Specific ElementsBy extracting specific elements, I mean that there can be instances where you want to extract specific elements, such as total from invoices, or contact number from resumes and so on.There are mainly two options that UiPath, offers to extract large texts. Those Activities are: Get Text Activity Anchor Base ActivityGet Text ActivityThis activity simply points to the element you're interested in to extract. Using this activity, text can be extracted, and an output variable can be used. After that, you can either use a Message Box or a Write Text File Activity and mention the output variable.Refer to the snapshot below to check the sequence and output. Over here, I have extracted Total amount and then displayed the output in a message box.Fig 5: Snapshot of Get Text Activity and Output – UiPath PDF Data ExtractionSo, that's how you can use the Get Text Action. Now, moving onto our Next Activity which is Anchor-Base Activity.Anchor-Base ActivityAnchor Base Activity is used to extract text and images. This activity is made up of two actions, as it performs an action in relation to another fixed element or anchor.So, a typical anchor-base activity mostly has two activities which are used underneath it: Find element / Find Image Activity Get Text ActivityFind Element / Find Image ActivityThe Find Element / Find Image Activity is used to find an element, i.e. text and an image respectively. You can use the activities as per your need. Now, since the Anchor Base activity is a relative activity, you can use the Get Text Activity as I mentioned before.Refer to the snapshot below. Here I have used the Anchor-Base activity, with the Find Image Activity and Get Text Activity. In the Find Image Activity I have selected Total, so basically Total would be searched and then, in The Get Text Activity, since the value is selected, the value would be extracted.Fig 6: Snapshot of Anchor Base Activity – UiPath PDF Data ExtractionSimilarly, you could have also used the Find Element Activity.So, folks! With this, we come to an end to this blog on UiPath PDF Data Extraction.We at edureka! also offer Robotic Process Automation Training using UiPath. If you are interested in shifting your career to RPA, you can enroll for the course here, and get started.Got a question for us? Please mention it in the comments section of this UiPath PDF Data Extraction blog and we will get back to you.





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