# Medium Q Search

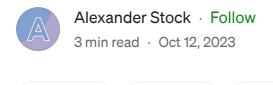
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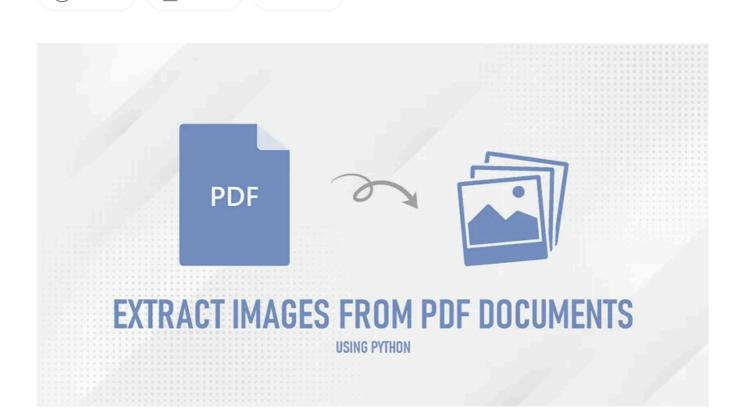




# **Extract Images from PDF Documents in Python**



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Extracting images from a PDF file can be a useful and practical task in various situations. Whether you need to repurpose images for a presentation, create a digital photo album, or simply save images for future reference, the ability to extract images from a PDF can save you time and effort. In this article, you will learn how to extract images from a PDF document in Python using Spire.PDF for Python.

- Extract Images from a Specific Page in Python
- Extract All Images from a PDF Document in Python

#### **Install Dependency**

This solution requires Spire.PDF for Python to be installed as the dependency, which is a Python library for reading, creating and manipulating PDF documents in a Python program. You can install it by running the following pip command.

```
pip install Spire.PDF
```

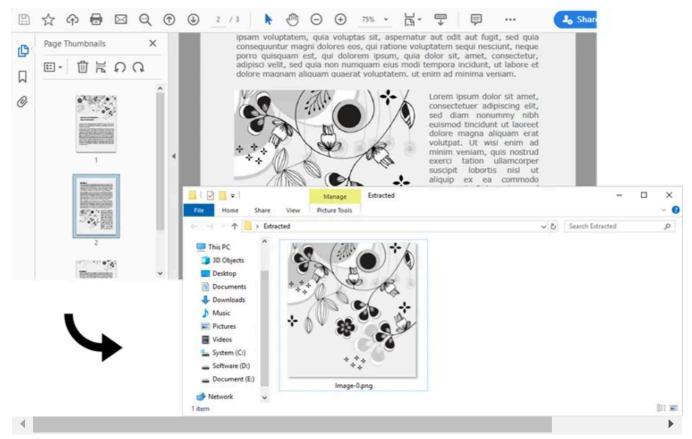
## **Extract Images from a Specific Page in Python**

Spire.PDF for Python offers the **PdfPageBase.ExtractImages()** method to extract images from a specified page. The following are the detailed steps.

- Create a PdfDocument object.
- Load a PDF document using PdfDocument.LoadFromFile() method.
- Get a particular page through PdfDocument.Pages[index] property.
- Extract images from the page using PdfPageBase.ExtractImages() method and return a list of images.
- Write each image in the list as a PNG file.

```
from spire.pdf.common import *
from spire.pdf import *
# Create a PdfDocument object
doc = PdfDocument()
# Load a PDF document
doc.LoadFromFile('C:/Users/Administrator/Desktop/input.pdf')
# Get a specific page
page = doc.Pages[1]
# Extract images from the page
images = []
for image in page.ExtractImages():
    images.append(image)
# Save images to specified location with specified format extension
index = 0
for image in images:
    imageFileName = 'C:/Users/Administrator/Desktop/Extracted/Image-{0:d}.png'.
    index += 1
```

```
image.Save(imageFileName, ImageFormat.get_Png())
doc.Close()
```



### **Extract All Images from a PDF Document in Python**

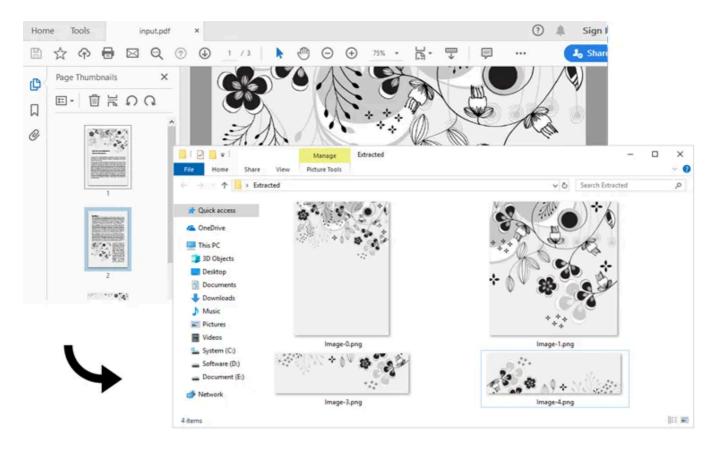
To extract all images from an entire PDF document, loop through the pages in the document and then retrieve the images from each page separately. Here are the detailed steps.

- Create a PdfDocument object.
- Load a PDF document using PdfDocument.LoadFromFile() method.
- Iterate through the pages in the document, and get the images from each page using PdfPageBase.ExtractImages() method.
- Write all extracted images as individual PNG files.

```
from spire.pdf.common import *
from spire.pdf import *

# Create a PdfDocument object
doc = PdfDocument()
```

```
# Load a PDF document
doc.LoadFromFile('C:/Users/Administrator/Desktop/input.pdf')
images = []
# Loop through the pages in the document
for i in range(doc.Pages.Count):
    page = doc.Pages.get_Item(i)
    # Extract images from a specific page
    for image in page.ExtractImages():
        images.append(image)
# Save images to specified location with specified format extension
index = 0
for image in images:
    imageFileName = 'C:/Users/Administrator/Desktop/Extracted/Image-{0:d}.png'.
    index += 1
    image.Save(imageFileName, ImageFormat.get_Png())
doc.Close()
```



#### Conclusion

This blog post provides valuable insights into extracting images from PDF documents using Python. It covers two main techniques: extracting images from a specific page and extracting all images from a PDF document. These techniques