

# How to read barcode from uploaded file for barcode reader API in Python with ByteScout Cloud API Server

## How to read barcode from uploaded file for barcode reader API in Python: Step By Step Instructions

Quick guide: Learn how to read barcode from uploaded file in Python. ByteScout Cloud API Server was designed to assist barcode reader API in Python. ByteScout Cloud API Server is API server that is ready to use and can be installed and deployed in less than 30 minutes on your own Windows server or server in a cloud. It can save data and files on your local server-based file storage or in Amazon AWS S3 storage. Data is processed solely on the API server and is powered by ByteScout engine, no cloud services or Internet connection is required for data processing..

Want to learn quickly? These fast application programming interfaces of ByteScout Cloud API Server for Python plus the instruction and the code below will help to learn how to read barcode from uploaded file. This Python sample code can be used by copying and pasting into your project. Once done, just compile your project and click Run. Easy to understand tutorials are available along with installed ByteScout Cloud API Server if you'd like to learn more about the topic and the details of the API.

Trial version of ByteScout is available for free download from our website. This and other source code samples for Python and other programming languages are available.

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# Source Code Files:

## ReadBarcodeFromUploadedFile.py

```
import os
import requests # pip install requests

# Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://localhost".
# If it's not then please replace this with with your hosting url.

# Base URL for PDF.co Web API requests
BASE_URL = "https://localhost"

# Source file name
SourceFile = ".\\sample.pdf"

# Comma-separated list of barcode types to search.
# See valid barcode types in the documentation https://app.pdf.co/documentation/api/1.0/barcode/read_from_url.html
BarcodeTypes = "Code128,Code39,Interleaved2of5,EAN13"

# Comma-separated list of page indices (or ranges) to process. Leave empty for all pages. Example: '0,2-5,7-'.
Pages = ""

def main(args = None):
    uploadedFileUrl = uploadFile(SourceFile)
    if (uploadedFileUrl != None):
        readBarcodes(uploadedFileUrl)

def readBarcodes(uploadedFileUrl):
    """Get Barcode Information using PDF.co Web API"""

    # Prepare URL for 'Barcode Reader' API request
    url = "{}/barcode/read/from/url?types={}&pages={}&url={}".format(
        BASE_URL,
        BarcodeTypes,
        Pages,
        uploadedFileUrl
    )

    # Execute request and get response as JSON
    response = requests.get(url, headers={ "content-type": "application/octet-stream" })
    if (response.status_code == 200):
        json = response.json()

        if json["error"] == False:
            # Display information
            for barcode in json["barcodes"]:
                print("Found barcode:")
                print(f"  Type: {barcode['TypeName']}")
                print(f"  Value: {barcode['Value']}")
                print(f"  Document Page Index: {barcode['Page']}")
                print(f"  Rectangle: {barcode['Rect']}")
                print(f"  Confidence: {barcode['Confidence']}")
                print("")
            else:
                # Show service reported error
                print(json["message"])
            else:
                print(f"Request error: {response.status_code} {response.reason}")

def uploadFile(fileName):
    """Uploads file to the cloud"""

    # 1. RETRIEVE PRESIGNED URL TO UPLOAD FILE.

    # Prepare URL for 'Get Presigned URL' API request
    url = "{}/file/upload/get-presigned-url?contenttype=application/octet-stream&name={}".format(
        BASE_URL, os.path.basename(fileName))
```

```
# Execute request and get response as JSON
response = requests.get(url)
if (response.status_code == 200):
    json = response.json()

    if json["error"] == False:
        # URL to use for file upload
        uploadUrl = json["presignedUrl"]
        # URL for future reference
        uploadedFileUrl = json["url"]

        # 2. UPLOAD FILE TO CLOUD.
        with open(fileName, 'rb') as file:
            requests.put(uploadUrl, data=file, headers={ "content-type": "application/octet-stream" })

        return uploadedFileUrl
    else:
        # Show service reported error
        print(json["message"])
else:
    print(f"Request error: {response.status_code} {response.reason}")

return None

if __name__ == '__main__':
    main()
```

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## VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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