# How to PDF make searchable API in Python with ByteScout Cloud API Server

## If you want to learn more then this tutorial will show how to PDF make searchable API in Python

The sample shows instructions and algorithm of how to PDF make searchable API and how to make it run in your Python application. ByteScout Cloud API Server can PDF make searchable API. It can be applied from Python. ByteScout Cloud API Server is the ready to use Web API Server that can be deployed in less than 30 minutes into your own in-house server or into private cloud server. Can store data on in-house local server based storage or in Amazon AWS S3 bucket. Processing data solely on the server using buil-in ByteScout powered engine, no cloud services are used to process your data!.

Want to save time? You will save a lot of time on writing and testing code as you may just take the Python code from ByteScout Cloud API Server for PDF make searchable API below and use it in your application. Just copy and paste the code into your Python application’s code and follow the instructions. Enjoy writing a code with ready-to-use sample codes in Python.

ByteScout Cloud API Server free trial version is available on our website. Python and other programming languages are supported.

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## Source Code Files:

MakeSearchablePdfFromUploadedFile.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 PDF file
SourceFile = ".\\sample.pdf"
# Comma-separated list of page indices (or ranges) to process. Leave empty for all pages. Example: '0,2-5,7-'.
Pages = ""
# PDF document password. Leave empty for unprotected documents.
Password = ""
# OCR language. "eng", "fra", "deu", "spa"  supported currently. Let us know if you need more.
Language = "eng"
# Destination PDF file name
DestinationFile = ".\\result.pdf"


def main(args = None):
    uploadedFileUrl = uploadFile(SourceFile)
    if (uploadedFileUrl != None):
        makeSearchablePDF(uploadedFileUrl, DestinationFile)


def makeSearchablePDF(uploadedFileUrl, destinationFile):
    """Make Uploaded PDF file Searchable using PDF.co Web API"""

    # Prepare URL for 'Make Searchable PDF' API request
    url = "{}/pdf/makesearchable?name={}&password={}&pages={}&lang={}&url={}".format(
        BASE_URL,
        os.path.basename(destinationFile),
        Password,
        Pages,
        Language,
        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:
            #  Get URL of result file
            resultFileUrl = json["url"]
            # Download result file
            r = requests.get(resultFileUrl, stream=True)
            if (r.status_code == 200):
                with open(destinationFile, 'wb') as file:
                    for chunk in r:
                        file.write(chunk)
                print(f"Result file saved as \"{destinationFile}\" file.")
            else:
                print(f"Request error: {response.status_code} {response.reason}")
        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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