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1  #!/usr/bin/python -u
2  import bd
3  import time
4  import os
5  from os.path import isfile, join, splitext, basename
6
7  #parameters to access BD services
8  bds = 'https://bd-api.ncsa.illinois.edu'
9
10 # token from the Brown Dog API Gateway service
11 token = ""
12
13 # path to the folder to process
14 input_file = ""
15
16 # path to the folder to store output
17 output_path = ""+str(int(time.time()))
18
19 # output format
20 output_format = "png"
21
22 def main():
23     # create a output folder
24     os.makedirs(output_path)
25
26     # convert the image file to png
27     output = convert(input_file, output_format, output_path, bds, token)
28
29     # extract metadata from the converted file
30     metadata = extract(output, bds, token)
31
32     # print the "tag" section for to see the face detected
33     print metadata['tags']
34
35 def convert(input_file, output_format, output_path, bds, token):
36     filename, file_extension = splitext(basename(input_file))
37     input_format = file_extension[1:]
38
39     print 'File: ' + basename(input_file) + ', ' + input_format + ' to ' + output_format
40
41     # getting possible output format by the input format
42     outputs = bd.outputs(bds, input_format, token)
43
44     # craete a output file name with path
45     output_file = output_path + '/' + filename + "." + output_format
46
47     # do the conversion
48     return bd.convert(bds, input_file, output_format, output_file, token, 60, True)
49
50 def extract(extract_file, bds, token):
51     print 'Processing File: ' + extract_file
52     extract_output = bd.extract(bds, extract_file, token, 120)
53     return extract_output
54
55 if __name__ == "__main__":
56     main()
57
```