

fitts/fitts.py

```
1 # 演習2-1において、条件毎のMTとIDを求めてCSVとして保存
2
3
4 import csv
5 import os
6 import re
7 import math
8
9 path = './fitts/csv'
10 flist = os.listdir(path)
11
12 # 結果出力用csv -----
13 new = open('./fitts/result.csv', 'w', newline='')
14 writer = csv.writer(new)
15 writer.writerow(['filename', 'MT', 'ID'])
16
17 for file in flist:
18     # 全てのcsvファイルをまわる -----
19     csv_path = './fitts/csv/' + file
20     f = open(csv_path, encoding='utf-8')
21     csv_file = csv.reader(f)
22     next(csv_file)
23     filename = os.path.basename(csv_path)
24     (basename, extension) = os.path.splitext(filename)
25     print(file)
26
27     # W, Dをファイル名から取得し、IDを計算する -----
28     pattern = r"d(\d+)w(\d+)"
29     matches = re.findall(pattern, basename)
30     for match in matches:
31         D = int(match[0])
32         W = int(match[1])
33         ID = math.log2((D/W) + 1)
34         print('ID:', ID)
35
36     # 平均選択時間を計算する
37     MTi_list = []
38     MT = 0
39     counter = 0
40
41     for row in csv_file:
42         MTi = float(row[1])/13
43         MTi_list.append(MTi)
44     print("MTi_list", MTi_list)
45
46     for mti in MTi_list:
47         MT += mti
48     print('MT:', MT)
49
50     # csvに書き込み
51     writer.writerow([filename, MT, ID])
52
53 new.close()
54 f.close()
```