

Meeting #5

10/7/21

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Deliverables

- Write Script to read tobii data from file

Methodology and Learnings

- Chose the Json participant file
 - Read in data from file
 - Converted it to dataframe
 - Parsed the data
 - Created a dataframe
- Questions
 - Data kept together?
 - Sorted?
 - More efficient?
 - Multiple files?
- Learning
 - Dataframes
 - Dictionaries
 - Json library

Results

pa_id	0
pa_project	gw2we5q
pa_calibration	7mcqkq5
pa_created	twid7vc
EagleId	2020-06-04T23:13:42+0000
Name	7d746800-dc12-4295-903f-2c292ccf9192
Notes	Shawhin

```
1 import json as js
2 import pandas as pd
3
4 # Returns a dictionary from the json file
5 with open('participant.json') as f:
6     data = list(js.load(f).items())
7
8 # Turn data into dataframe for manipulation
9 df_data = pd.DataFrame(data).T
10
11 columns = []
12 row_values = []
13 l_pa_columns = []
14 l_pa_rows = []
15
16 # dataframe traversal loop
17 for i in df_data: # i = index of dataframe
18     for r in range(0, len(df_data), 1): # r = row in index "i" of dataframe
19
20         # Parses the data
21         if r == 0 and df_data[i][r] != 'pa_info':
22             columns.append(df_data[i][r]) # Adds column name
23
24         elif df_data[i][r] == 'pa_info': # Parses pa_info dictionary
25
26             l_pa_info = df_data[i][r+1]
27             l_pa_columns = list(l_pa_info.keys())
28             l_pa_rows = list(l_pa_info.values())
29             break
30         else:
31             row_values.append(df_data[i][r]) # Adds values
32
33 # Adds the data from pa_info
34 columns.extend(l_pa_columns)
35 row_values.extend(l_pa_rows)
36
37 # Creates dataframe
38 df_final = pd.DataFrame(row_values, columns)
39 print(df_final)
40
```