

전체 데이터셋 처리 코드 :

```
02dataset_homework.py > MyCustomDataset > __getitem__
1  from torch.utils.data.dataset import Dataset
2  import pandas as pd
3  import os
4  import glob
5
6  class MyCustomDataset(Dataset): # Dataset 쓸 때 상속을 꼭 받아야 함.
7      def __init__(self, path):
8          self.data_path = path
9          self.data2csv = pd.read_csv(path)
10         self.data_len = len(self.data2csv)
11
12         # print(self.data2csv)
13         # print(len(self.data2csv))
14
15         self.columns_of_data = self.data2csv.columns
16         # Index(['Unnamed: 0', 'file_name', 'x1', 'y1', 'w', 'h'], dtype='object')
17
18
19     def __getitem__(self, index):
20         # 인덱스값이 csv데이터의 양만큼만 올라가도록함.
21         if index >= self.data_len:
22             raise IndexError
23
24         file_name = self.data2csv[self.columns_of_data[1]][index]
25
26         bbox = []
27         for i in range(4):
28             bbox.append(self.data2csv[self.columns_of_data[i+2]][index])
29
30         # 튜플로 반환하려고 한다면
31         # bbox = tuple(bbox)
32
33         return file_name, bbox
34
35     def __len__(self):
36         return len(self.data2csv)
37
38 temp = MyCustomDataset('./file_and_box_point.csv') # 파일 경로 입력
39
40 for i in temp:
41     print(i)
42
```

input (넣은 csv 데이터)

file_and_box_point.csv
,file_name,x1,y1,w,h
0,kiwi_1.jpg,0.0,29.22,251.91,191.06
1,kiwi_1.jpg,102.27,199.74,192.79,107.54
2,kiwi_1.jpg,245.99,0.68,213.33,100.93
3,kiwi_1.jpg,265.83,57.76,205.67,182.7
4,kiwi_2.jpg,186.13,23.4,157.78,154.28
5,kiwi_2.jpg,8.81,8.74,163.01,192.33
6,kiwi_2.jpg,132.7,162.7,166.18,149.02
7,kiwi_3.jpg,391.27,106.11,356.75,398.12
8,kiwi_3.jpg,32.72,91.12,368.14,337.57
9,kiwi_4.jpg,419.42,189.47,289.31,308.96
10,kiwi_4.jpg,166.27,309.75,367.93,310.53
11,kiwi_4.jpg,43.63,158.02,382.08,303.46
12,kiwi_5.jpg,238.73,84.38,218.03,249.48
13,kiwi_5.jpg,165.36,189.73,233.75,222.22
14,kiwi_5.jpg,38.52,142.03,202.31,204.41
15,kiwi_6.jpg,73.13,63.29,57.0,56.78
16,kiwi_6.jpg,114.76,69.82,55.44,60.23
17,kiwi_6.jpg,110.54,10.0,45.26,61.73
18,kiwi_6.jpg,57.79,9.01,52.75,57.35
19,kiwi_6.jpg,49.16,113.55,71.35,62.54
20,kiwi_6.jpg,0.24,103.0,49.11,67.52
21,kiwi_6.jpg,7.72,54.66,55.82,56.01
22,kiwi_6.jpg,16.35,16.3,46.81,44.69
23,kiwi_6.jpg,0.0,0.76,27.1,51.02
24,kiwi_6.jpg,0.05,56.39,18.8,58.7
25,kiwi_6.jpg,54.14,0.57,64.46,22.82
26,kiwi_7.jpg,684.58,90.83,459.17,435.0
27,kiwi_7.jpg,432.92,337.5,401.66,410.83
28,kiwi_7.jpg,162.92,342.5,284.16,344.17
29,kiwi_7.jpg,254.58,60.0,472.5,411.67
32

output ( for문 출력값 )

('kiwi_1.jpg', [0.0, 29.22, 251.91, 191.06])
('kiwi_1.jpg', [102.27, 199.74, 192.79, 107.54])
('kiwi_1.jpg', [245.99, 0.68, 213.33, 100.93])
('kiwi_2.jpg', [132.7, 162.7, 166.18, 149.02])
('kiwi_3.jpg', [391.27, 106.11, 356.75, 398.12])
('kiwi_3.jpg', [32.72, 91.12, 368.14, 337.57])
('kiwi_4.jpg', [419.42, 189.47, 289.31, 308.96])
('kiwi_4.jpg', [166.27, 309.75, 367.93, 310.53])
('kiwi_4.jpg', [43.63, 158.02, 382.08, 303.46])
('kiwi_5.jpg', [238.73, 84.38, 218.03, 249.48])
('kiwi_5.jpg', [165.36, 189.73, 233.75, 222.22])
('kiwi_5.jpg', [38.52, 142.03, 202.31, 204.41])
('kiwi_6.jpg', [73.13, 63.29, 57.0, 56.78])
('kiwi_6.jpg', [114.76, 69.82, 55.44, 60.23])
('kiwi_6.jpg', [110.54, 10.0, 45.26, 61.73])
('kiwi_6.jpg', [57.79, 9.01, 52.75, 57.35])
('kiwi_6.jpg', [49.16, 113.55, 71.35, 62.54])
('kiwi_6.jpg', [0.24, 103.0, 49.11, 67.52])
('kiwi_6.jpg', [7.72, 54.66, 55.82, 56.01])
('kiwi_6.jpg', [16.35, 16.3, 46.81, 44.69])
('kiwi_6.jpg', [0.0, 0.76, 27.1, 51.02])
('kiwi_6.jpg', [0.05, 56.39, 18.8, 58.7])
('kiwi_6.jpg', [54.14, 0.57, 64.46, 22.82])
('kiwi_7.jpg', [684.58, 90.83, 459.17, 435.0])
('kiwi_7.jpg', [432.92, 337.5, 401.66, 410.83])
('kiwi_7.jpg', [162.92, 342.5, 284.16, 344.17])
('kiwi_7.jpg', [254.58, 60.0, 472.5, 411.67])