

# Garbage Classification

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# Where can you get the data?

# kaggle

## Garbage Classification

6 classes: cardboard, glass, metal , paper, plastic and trash.



Data Card Code (188) Discussion (2) Suggestions (0)

### About Dataset

#### Garbage Classification Data

The **Garbage Classification Dataset** contains 6 classifications: cardboard (393), glass (491), metal (400), paper(584), plastic (472) and trash(127).

Example pictures for each category are shown below:

#### 1.cardboard



#### Usability

8.13

#### License

Data files © Original Authors

#### Expected update frequency

Not specified

#### Tags

Internet

Image

Energy

Multiclass Classification

<https://www.kaggle.com/datasets/asdasdasasdas/garbage-classification>

# Example of data

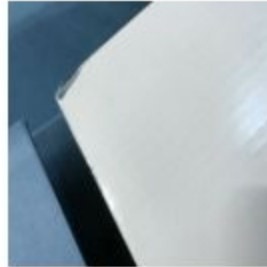
Paper



Glass



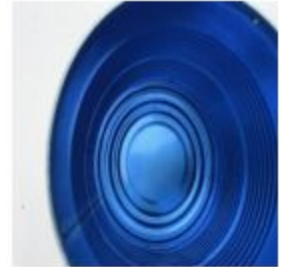
Cardboard



Metal



Metal



Cardboard



Plastic



Glass



Metal











Plastic

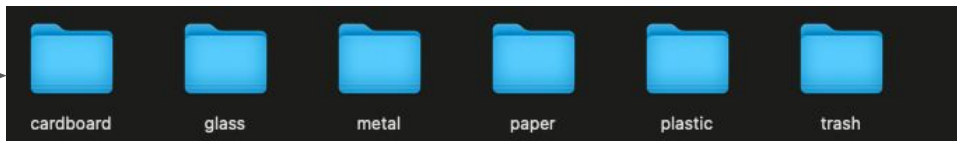


# Data Preprocessing

## Data Explorer


43.4 MB

- ▼  Garbage classification
  - ▶  Garbage classification
    -  one-indexed-files-notrast
    -  one-indexed-files-notrast
    -  one-indexed-files-notrast
    -  one-indexed-files.txt
    -  zero-indexed-files.txt
    -  zero-indexed-files.txt



Train 60%  
Validation 20%  
Test 20%

# Data Preprocessing



```
train_gen = ImageDataGenerator(rescale=1. / 255,  
                                rotation_range=0,  
                                width_shift_range=0.3,  
                                height_shift_range=0.3,  
                                horizontal_flip=True,  
                                vertical_flip=True,)  
  
val_gen = ImageDataGenerator(rescale=1. / 255)  
  
test_gen = ImageDataGenerator(rescale=1. / 255)
```