# object-detection-dataset

April 9, 2019

# 1 Object Detection Data Set (Pikachu)

```
In [1]: %matplotlib inline
import d21
from mxnet import gluon, image
from mxnet.gluon import utils as gutils
import os
```

# 1.1 Download the Data Set

#### 1.2 Read the Data Set

# 1.3 Read a data batch

Downloading ./pikachu/train.rec from https://apache-mxnet.s3-accelerate.amazonaws.com/gluon/dar Downloading ./pikachu/train.idx from https://apache-mxnet.s3-accelerate.amazonaws.com/gluon/dar Downloading ./pikachu/val.rec from https://apache-mxnet.s3-accelerate.amazonaws.com/gluon/data

Out[4]: ((32, 3, 256, 256), (32, 1, 5))

# 1.4 Visualize Data

```
In [5]: imgs = (batch.data[0][0:10].transpose((0, 2, 3, 1))) / 255
      axes = d2l.show_images(imgs, 2, 5, 6).flatten()
      for ax, label in zip(axes, batch.label[0][0:10]):
            d2l.show_bboxes(ax, [label[0][1:5] * edge_size], colors=['w'])
```



















