



Image Classification Data (Fashion-MNIST)

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Getting the Data



```
%matplotlib inline
import d2l
from mxnet import gluon
import sys
```

Getting the Data



```
mnist_train = gluon.data.vision.FashionMNIST(train=True)
mnist_test = gluon.data.vision.FashionMNIST(train=False)
```

Getting the Data



```
len(mnist_train), len(mnist_test)
```

Getting the Data



```
# Save to the d2l package.  
def get_fashion_mnist_labels(labels):  
    text_labels = ['t-shirt', 'trouser', 'pullover', 'dress',  
                    'coat',           'sandal', 'shirt', 'sneaker', 'bag', 'ankle boot']  
    return [text_labels[int(i)] for i in labels]
```

Getting the Data

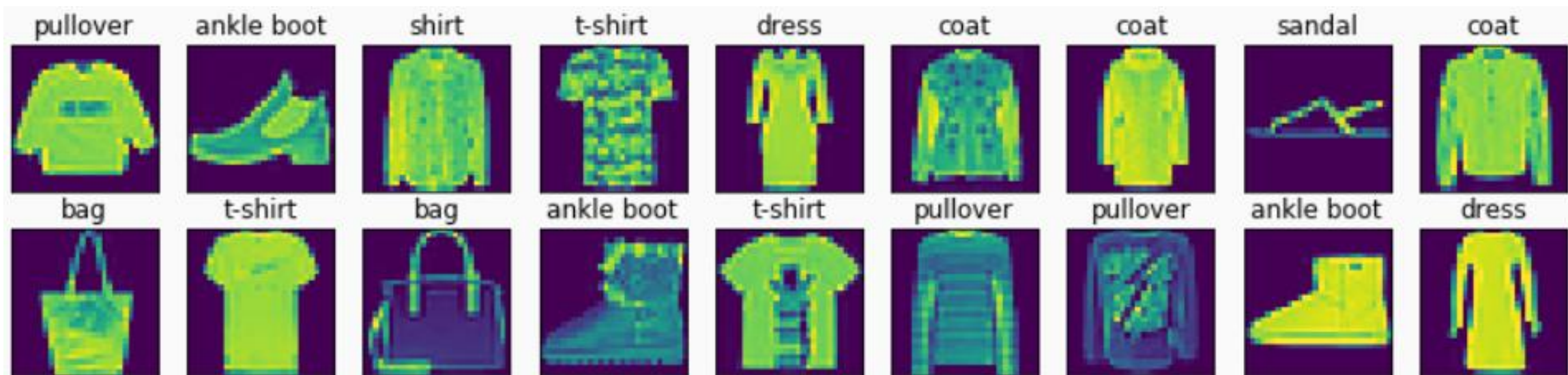


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    return [text_labels[int(i)] for i in labels]
```


Getting the Data



```
X, y = mnist_train[:18]
d2l.show_images(X.squeeze(axis=-1), 2, 9,
titles=get_fashion_mnist_labels(y));
```



Reading a Minibatch



```
# Save to the d2l package.
def get_dataloader_workers(num_workers=4):
    # 0 means no additional process is used to speed up the reading of data.
    if sys.platform.startswith('win'):
        return 0
    else:
        return num_workers
```

Reading a Minibatch

[illegible]

Reading a Minibatch



```
timer = d2l.Timer()  
for X, y in train_iter:  
    continue  
    '%.2f sec' % timer.stop()
```

Thank You!

Does anyone have any questions?

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Blog: <https://ceteongvanness.wordpress.com>

Resources

Dive into Deep Learning