Lecture 3: Importing data with Pandas

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Today's Topics

Lab Exercise

• Importing data with Pandas

Download SMS Spam Dataset

- Download SMS spam data from
 - https://archive.ics.uci.edu/ml/datasets/SMS+Spam+Collection
 - Click "Data Folder"
- Unzip into work directory

Importing data the traditional way

Using open():

```
with open('./SMSSpamCollection') as f:
    messages = f.readlines()
```

A more compact alternative:

lines = [line.rstrip('\n') for line in open('filename')]

Importing data with Pandas

Playing with the data

```
print(messages)
print(message.head())
messages.groupby('label').describe()
messages['length'] = messages['message'].map(lambda text: len(text))
print(messages.head())
messages.length.plot(bins=20, kind='hist')
messages.length.describe()
```