Keras is a powerful and easy-to-use deep learning library for Theano and TensorFlow that provides a high-level neural networks API to develop and evaluate deep learning models.

### A Basic Example

```python
>>> from keras.models import Sequential
>>> model = Sequential()  
>>> model.add(Dense(32,  
activation='relu',  
input_dim=8))

>>> model.compile(optimizer='rmsprop',  
loss='binary_crossentropy',  
metrics=['accuracy'])

>>> model.fit(data, labels, epochs=10, batch_size=32)
```

### Data

Your data needs to be stored as NumPy arrays or as a list of NumPy arrays. Ideally, you split the data in training and test sets, for which you can also resort to the `train_test_split` module of `sklearn`. Use `validation_split` instead to include validation data.

#### Keras Data Sets

```python
>>> from keras.datasets import boston_housing  
>>> (x_train2,y_train2),(x_test2,y_test2)  = boston_housing.load_data()  
```

#### Other

```python
>>> from urllib.request import urlopen

>>> X = data[:,1:8]  
>>> y = data[:,8]
```