

```

In [59]: import os
from PIL import Image
import pandas as pd

# Put a Cyrillic folder in the same folder as this file
cyrillic_path = "./Cyrillic"

meas = []
classifications = []

for dirName, subdirList, fileNames in os.walk(cyrillic_path):
    for i, fileName in enumerate(fileNames):
        if fileName.endswith(".png"):
            # print "{n}. {fileName}".format(n=i, dirName=dirName, fileName=fileName)
            img = Image.open(os.path.join(dirName, fileName))
            bitmap = list(img.getdata())
            img.close()
            meas.append(bitmap)
            character = dirName.split("/")[-1]
            classifications.append(character)
            # if len(meas) > 200: break

df = pd.DataFrame({
    'classification': pd.Categorical(classifications),
    'imageData': pd.Series(meas)
})

df.head()

```

Out[59]:

|   | classification | imageData   |
|---|----------------|---|
| 0 | Б              | [(0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,... |
| 1 | Б              | [(0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,... |
| 2 | Б              | [(0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,... |
| 3 | Б              | [(0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,... |
| 4 | Б              | [(0, 0, 0, 0), (0, 0, 0, 0), (0, 0, 0, 0), (0,... |