```
Found existing installation: Pillow 7.1.2
Uninstalling Pillow-7.1.2:
   Successfully uninstalled Pillow-7.1.2
Using pip 21.1.3 from /usr/local/lib/python3.7/dist-packages/pip (python 3.7)
Value for scheme.platlib does not match. Please report this to <https://github.c
distutils: /usr/local/lib/python3.7/dist-packages
sysconfig: /usr/lib/python3.7/site-packages
Value for scheme.purelib does not match. Please report this to <a href="https://github.c">https://github.c</a>
distutils: /usr/local/lib/python3.7/dist-packages
sysconfig: /usr/lib/python3.7/site-packages
Value for scheme.headers does not match. Please report this to <https://github.c
distutils: /usr/local/include/python3.7/UNKNOWN
sysconfig: /usr/include/python3.7m/UNKNOWN
Value for scheme.scripts does not match. Please report this to <a href="https://github.c">https://github.c</a>
distutils: /usr/local/bin
sysconfig: /usr/bin
Value for scheme.data does not match. Please report this to <https://github.com/
distutils: /usr/local
sysconfig: /usr
Additional context:
user = False
home = None
root = None
prefix = None
Non-user install because site-packages writeable
Created temporary directory: /tmp/pip-ephem-wheel-cache-7wonmjoi
Created temporary directory: /tmp/pip-req-tracker-1730if3g
Initialized build tracking at /tmp/pip-reg-tracker-1730if3g
Created build tracker: /tmp/pip-req-tracker-173oif3g
Entered build tracker: /tmp/pip-req-tracker-173oif3g
Created temporary directory: /tmp/pip-install-8xlnx0gd
1 location(s) to search for versions of pillow:
* https://pypi.org/simple/pillow/
Fetching project page and analyzing links: <a href="https://pypi.org/simple/pillow/">https://pypi.org/simple/pillow/</a>
Getting page <a href="https://pypi.org/simple/pillow/">https://pypi.org/simple/pillow/</a>
Found index url <a href="https://pypi.org/simple">https://pypi.org/simple</a>
Looking up "<a href="https://pypi.org/simple/pillow/" in the cache">https://pypi.org/simple/pillow/</a>" in the cache
Request header has "max age" as 0, cache bypassed
Starting new HTTPS connection (1): pypi.org:443
https://pypi.org:443 "GET /simple/pillow/ HTTP/1.1" 200 203092
Updating cache with response from "<a href="https://pypi.org/simple/pillow/">https://pypi.org/simple/pillow/</a>"
Caching due to etag
   Found link https://files.pythonhosted.org/packages/72/e6/692512c5d9dc97f83a91f
   Found link <a href="https://files.pythonhosted.org/packages/ea/dd/20ef35448408caa380cc4">https://files.pythonhosted.org/packages/ea/dd/20ef35448408caa380cc4</a>
   Found link <a href="https://files.pythonhosted.org/packages/ee/b9/e33d12389365e6682cc76">https://files.pythonhosted.org/packages/ee/b9/e33d12389365e6682cc76</a>
   Found link <a href="https://files.pythonhosted.org/packages/d3/6e/5790f95cfadad9de79f9b">https://files.pythonhosted.org/packages/d3/6e/5790f95cfadad9de79f9b</a>
   Found link <a href="https://files.pythonhosted.org/packages/97/b1/bc176add46c7a3c576922">https://files.pythonhosted.org/packages/97/b1/bc176add46c7a3c576922</a>
   Found link <a href="https://files.pythonhosted.org/packages/42/38/c205550a701e3ac790992">https://files.pythonhosted.org/packages/42/38/c205550a701e3ac790992</a>
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Given no hashes to check 2 links for project 'pillow': discarding no candidates
Collecting Pillow==5.3.0
```

Created temporary directory: /tmp/pip-unpack-xhm3xw05

Looking up "https://files.pythonhosted.org/packages/62/8c/230204b8e968f6db00c7

No cache entry available

Starting now HTTDS connection (1): files nuthonhosted argument

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Installing collected packages: Pillow
  Value for scheme.platlib does not match. Please report this to <a href="https://github">https://github</a>
  distutils: /usr/local/lib/python3.7/dist-packages
  sysconfig: /usr/lib/python3.7/site-packages
  Value for scheme.purelib does not match. Please report this to <a href="https://github">https://github</a>
  distutils: /usr/local/lib/python3.7/dist-packages
  sysconfig: /usr/lib/python3.7/site-packages
  Value for scheme.headers does not match. Please report this to <https://github
  distutils: /usr/local/include/python3.7/Pillow
  sysconfig: /usr/include/python3.7m/Pillow
```

ВНИМАНИЕ: На этом этапе обязательно перезагрузить рантайм (Runtime -> Restart Runtime). Иначе версия 5.3.0 не будет загружена в рантайм.

После перезапуска рантайма следует продолжить исполнять ячейки далее.

ucar - Falca

Физтех-Школа Прикладной математики и информатики (ФПМИ) МФТИ

alstutlis: /usr/local/lib/python3.//alst-packages

Путешествие по Спрингфилду.

Сегодня вам предстоить помочь телекомпании FOX в обработке их контента. Как вы знаете сериал Симсоны идет на телеэкранах более 25 лет и за это время скопилось очень много видео материала. Персоонажи менялись вместе с изменяющимися графическими технологиями и Гомер 2018 не очень похож на Гомера 1989. Нашей задачей будет научиться классифицировать персонажей проживающих в Спрингфилде. Думаю, что нет смысла представлять каждого из них в отдельности.



▼ Установка зависимостей

!pip install -U torch torchvision

```
Requirement already satisfied: torch in /usr/local/lib/python3.7/dist-packages (Requirement already satisfied: torchvision in /usr/local/lib/python3.7/dist-pack Requirement already satisfied: typing-extensions in /usr/local/lib/python3.7/dist-packages (Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (Requirement already satisfied: pillow!=8.3.0,>=5.3.0 in /usr/local/lib/python3.7
```

```
# ИСПРАВЛЕНИЕ: к сожалению этот код не работает у меня на коллабе
# плюс что-то намудрено с именами в репозитории pytorch
```

установка подходящей версии torch

```
#from os.path import exists
#from wheel.pep425tags import get_abbr_impl, get_impl_ver, get_abi_tag
#platform = '{}{}-{}'.format(get_abbr_impl(), get_impl_ver(), get_abi_tag())
#cuda_output = !ldconfig -p|grep cudart.so|sed -e 's/.*\.\([0-9]*\)\.\([0-9]*\)$/cu\l
#accelerator = cuda_output[0] if exists('/dev/nvidia0') else 'cpu'
```

#!pip install -q http://download.pytorch.org/whl/{accelerator}/torch-1.5.0%2B{platfor #import torch

ИСПРАВЛЕНИЕ:

Вручную ищем и устанавливаем подходящуюю версию

```
# https://download.pytorch.org/whl/torch stable.html
!pip install -q 'https://download.pytorch.org/whl/cu101/torch-1.5.0%2Bcu101-cp36-cp36
import torch
    ERROR: torch-1.5.0+cu101-cp36-cp36m-linux x86 64.whl is not a supported wheel on
# we will verify that GPU is enabled for this notebook
# following should print: CUDA is available! Training on GPU ...
# if it prints otherwise, then you need to enable GPU:
# from Menu > Runtime > Change Runtime Type > Hardware Accelerator > GPU
import torch
import numpy as np
train on gpu = torch.cuda.is available()
if not train on gpu:
    print('CUDA is not available. Training on CPU ...')
else:
    print('CUDA is available! Training on GPU ...')
    CUDA is available! Training on GPU ...
# ВНИМАНИЕ: мы это уже сделали вначале ноутбука
# нам необходима версия pillow 5.3.0
# удалим старую версию и установим новую
#!pip uninstall -y Pillow
#!pip install Pillow==5.3.0
#import PIL
#print(PIL.PILLOW VERSION)
# здесь должна быть версия 5.3.0. если это не так перехгрузите данный ноутбук:
# Menu > Runtime > Restart Runtime
Чтобы изменить содержимое ячейки, дважды нажмите на нее (или выберите "Ввод")
from google.colab import drive
drive.mount('/content/gdrive/')
    Mounted at /content/gdrive/
```

ВНИМАНИЕ: скачайте датасет с каггла и положите его в корень своего гугл диска!

ИСПРАВЛЕНИЕ

```
#!unzip -q /content/gdrive/My\ Drive/simpsons/data/dataset.zip -d train
#!unzip -q /content/gdrive/My\ Drive/simpsons/data/testset.zip -d test
```

!unzip -q /content/gdrive/My\ Drive/journey-springfield.zip

!ls train

simpsons dataset

!nvidia-smi
import torch
torch.cuda.is available()

Mon Nov 29 16:08:23 2021

NVIDI	A-SMI	495.44	1 Driver	Version:	460.32.03	CUDA Versio	n: 11.2
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True

В нашем тесте будет 990 картнок, для которых вам будет необходимо предсказать класс.

```
import pickle
import numpy as np
from skimage import io

from tqdm import tqdm, tqdm_notebook
from PIL import Image
from pathlib import Path

from torchvision import transforms
from multiprocessing.pool import ThreadPool
from sklearn.preprocessing import LabelEncoder
```

| No running processes found

```
from torch.utils.data import Dataset, DataLoader
import torch.nn as nn
from matplotlib import colors, pyplot as plt
%matplotlib inline
# в sklearn не все гладко, чтобы в colab удобно выводить картинки
# мы будем игнорировать warnings
import warnings
warnings.filterwarnings(action='ignore', category=DeprecationWarning)
    /usr/local/lib/python3.7/dist-packages/skimage/io/manage plugins.py:23: UserWarn
      from .collection import imread collection wrapper
# разные режимы датасета
```

```
DATA_MODES = ['train', 'val', 'test']
# все изображения будут масштабированы к размеру 224х224 рх
RESCALE SIZE = 224
# работаем на видеокарте
DEVICE = torch.device("cuda")
```

https://jhui.github.io/2018/02/09/PyTorch-Data-loading-preprocess_torchvision/

Ниже мы исспользуем враппер над датасетом для удобной работы. Вам стоит понимать, что происходит с LabelEncoder и с torch. Transformation.

ToTensor конвертирует PIL Image с параметрами в диапазоне [0, 255] (как все пиксели) в FloatTensor размера (C x H x W) [0,1], затем производится масштабирование: \$input = \frac{input - \mu}{\text{standard deviation}} \\$, константы - средние и дисперсии по каналам на основе ImageNet

Стоит также отметить, что мы переопределяем метод getitem для удобства работы с данной структурой данных. Также используется LabelEncoder для преобразования строковых меток классов в id и обратно. В описании датасета указано, что картинки разного размера, так как брались напрямую с видео, поэтому следуем привести их к одному размер (это делает метод _prepare_sample)

```
class SimpsonsDataset(Dataset):
   Датасет с картинками, который паралельно подгружает их из папок
    производит скалирование и превращение в торчевые тензоры
   def __init__(self, files, mode):
        super(). init ()
```

```
# список файлов для загрузки
    self.files = sorted(files)
    # режим работы
    self.mode = mode
    if self.mode not in DATA MODES:
        print(f"{self.mode} is not correct; correct modes: {DATA MODES}")
        raise NameError
    self.len_ = len(self.files)
    self.label encoder = LabelEncoder()
    if self.mode != 'test':
        self.labels = [path.parent.name for path in self.files]
        self.label encoder.fit(self.labels)
        with open('label_encoder.pkl', 'wb') as le_dump_file:
              pickle.dump(self.label encoder, le dump file)
def __len__(self):
    return self.len_
def load sample(self, file):
    image = Image.open(file)
    image.load()
    return image
def getitem__(self, index):
    # для преобразования изображений в тензоры PyTorch и нормализации входа
    transform = transforms.Compose([
        transforms.ToTensor(),
        transforms.Normalize([0.485, 0.456, 0.406], [0.229, 0.224, 0.225])
    1)
    x = self.load sample(self.files[index])
    x = self. prepare sample(x)
    x = np.array(x / 255, dtype='float32')
    x = transform(x)
    if self.mode == 'test':
        return x
    else:
        label = self.labels[index]
        label id = self.label encoder.transform([label])
        y = label id.item()
        return x, y
def _prepare_sample(self, image):
    image = image.resize((RESCALE SIZE, RESCALE SIZE))
    return np.array(image)
```

```
def imshow(inp, title=None, plt ax=plt, default=False):
    """Imshow для тензоров"""
    inp = inp.numpy().transpose((1, 2, 0))
    mean = np.array([0.485, 0.456, 0.406])
    std = np.array([0.229, 0.224, 0.225])
    inp = std * inp + mean
    inp = np.clip(inp, 0, 1)
    plt ax.imshow(inp)
    if title is not None:
        plt_ax.set_title(title)
    plt ax.grid(False)
TRAIN DIR = Path('train/simpsons dataset')
TEST DIR = Path('testset/testset')
train val files = sorted(list(TRAIN DIR.rglob('*.jpg')))
test files = sorted(list(TEST DIR.rglob('*.jpg')))
from sklearn.model selection import train test split
train_val_labels = [path.parent.name for path in train_val_files]
train files, val files = train test split(train val files, test size=0.25, \
                                          stratify=train val labels)
val_dataset = SimpsonsDataset(val_files, mode='val')
# uncomment if you have problem with pillow
# def register extension(id, extension): Image.EXTENSION[extension.lower()] = id.uppe
# Image.register extension = register extension
# def register extensions(id, extensions):
      for extension in extensions: register extension(id, extension)
# Image.register_extensions = register extensions
Давайте посмотрим на наших героев внутри датасета.
fig, ax = plt.subplots(nrows=3, ncols=3, figsize=(8, 8), \
                        sharey=True, sharex=True)
for fig x in ax.flatten():
    random characters = int(np.random.uniform(0,1000))
    im_val, label = val_dataset[random_characters]
    imq label = " ".join(map(lambda x: x.capitalize(),\
                val_dataset.label_encoder.inverse_transform([label])[0].split('_')))
    imshow(im val.data.cpu(), \
          title=img label,plt ax=fig x)
```



Можете добавить ваши любимые сцены и классифицировать их. (веселые результаты можно кидать в чат)

Построение нейросети

Запустить данную сеть будет вашим мини-заданием на первую неделю, чтобы было проще участвовать в соревновании.

Данная архитектура будет очень простой и нужна для того, чтобы установить базовое понимание и получить простенький сабмит на Kaggle

Описание слоев:

1. размерность входа: 3х224х224

2. размерности после слоя: 8х111х111

3. 16x54x54

4. 32x26x26

5. 64x12x12

6. выход: 96х5х5

Очень простая сеть class SimpleCnn(nn.Module):

```
def __init__(self, n_classes):
        super().__init__()
        self.conv1 = nn.Sequential(
            nn.Conv2d(in_channels=3, out_channels=8, kernel_size=3),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2)
        )
        self.conv2 = nn.Sequential(
            nn.Conv2d(in_channels=8, out_channels=16, kernel_size=3),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2)
        )
        self.conv3 = nn.Sequential(
            nn.Conv2d(in_channels=16, out_channels=32, kernel_size=3),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2)
        )
        self.conv4 = nn.Sequential(
            nn.Conv2d(in_channels=32, out_channels=64, kernel_size=3),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2)
        )
        self.conv5 = nn.Sequential(
            nn.Conv2d(in_channels=64, out_channels=96, kernel_size=3),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2)
        )
        self.out = nn.Linear(96 * 5 * 5, n_classes)
    def forward(self, x):
        x = self.conv1(x)
        x = self.conv2(x)
        x = self.conv3(x)
        x = self.conv4(x)
        x = self.conv5(x)
        x = x.view(x.size(0), -1)
        logits = self.out(x)
        return logits
def fit_epoch(model, train_loader, criterion, optimizer):
    running loss = 0.0
    running_corrects = 0
    processed data = 0
    for inputs, labels in train_loader:
        inputs = inputs.to(DEVICE)
```

```
labels = labels.to(DEVICE)
        optimizer.zero_grad()
        outputs = model(inputs)
        loss = criterion(outputs, labels)
        loss.backward()
        optimizer.step()
        preds = torch.argmax(outputs, 1)
        running loss += loss.item() * inputs.size(0)
        running_corrects += torch.sum(preds == labels.data)
        processed data += inputs.size(0)
    train_loss = running_loss / processed_data
    train acc = running corrects.cpu().numpy() / processed data
    return train_loss, train_acc
def eval epoch(model, val loader, criterion):
    model.eval()
    running_loss = 0.0
    running corrects = 0
    processed size = 0
    for inputs, labels in val loader:
        inputs = inputs.to(DEVICE)
        labels = labels.to(DEVICE)
        with torch.set grad enabled(False):
            outputs = model(inputs)
            loss = criterion(outputs, labels)
            preds = torch.argmax(outputs, 1)
        running loss += loss.item() * inputs.size(0)
        running corrects += torch.sum(preds == labels.data)
        processed_size += inputs.size(0)
    val loss = running loss / processed size
    val_acc = running_corrects.double() / processed_size
    return val loss, val acc
def train(train_files, val_files, model, epochs, batch_size):
    train loader = DataLoader(train dataset, batch size=batch size, shuffle=True)
    val loader = DataLoader(val dataset, batch size=batch size, shuffle=False)
    history = []
    log template = "\nEpoch {ep:03d} train loss: {t loss:0.4f} \
    val loss {v loss:0.4f} train acc {t acc:0.4f} val acc {v acc:0.4f}"
    with tqdm(desc="epoch", total=epochs) as pbar outer:
        opt = torch.optim.Adam(model.parameters())
        criterion = nn.CrossEntropyLoss()
```

```
for epoch in range(epochs):
            train loss, train acc = fit epoch(model, train loader, criterion, opt)
            print("loss", train loss)
            val_loss, val_acc = eval_epoch(model, val_loader, criterion)
            history.append((train loss, train acc, val loss, val acc))
            pbar outer.update(1)
            tqdm.write(log template.format(ep=epoch+1, t loss=train loss,\
                                           v_loss=val_loss, t_acc=train_acc, v acc=va
    return history
def predict(model, test_loader):
    with torch.no grad():
        logits = []
        for inputs in test loader:
            inputs = inputs.to(DEVICE)
            model.eval()
            outputs = model(inputs).cpu()
            logits.append(outputs)
    probs = nn.functional.softmax(torch.cat(logits), dim=-1).numpy()
    return probs
n classes = len(np.unique(train val labels))
simple cnn = SimpleCnn(n classes).to(DEVICE)
print("we will classify :{}".format(n_classes))
print(simple cnn)
    we will classify :42
    SimpleCnn(
       (conv1): Sequential(
        (0): Conv2d(3, 8, kernel size=(3, 3), stride=(1, 1))
        (2): MaxPool2d(kernel size=2, stride=2, padding=0, dilation=1, ceil mode=Fal
       (conv2): Sequential(
        (0): Conv2d(8, 16, kernel size=(3, 3), stride=(1, 1))
        (1): ReLU()
        (2): MaxPool2d(kernel size=2, stride=2, padding=0, dilation=1, ceil_mode=Fal
       (conv3): Sequential(
        (0): Conv2d(16, 32, kernel size=(3, 3), stride=(1, 1))
        (1): ReLU()
        (2): MaxPool2d(kernel size=2, stride=2, padding=0, dilation=1, ceil mode=Fal
      (conv4): Sequential(
        (0): Conv2d(32, 64, kernel size=(3, 3), stride=(1, 1))
        (1): ReLU()
        (2): MaxPool2d(kernel size=2, stride=2, padding=0, dilation=1, ceil mode=Fal
```

(0): Conv2d(64, 96, kernel_size=(3, 3), stride=(1, 1))

(conv5): Sequential(

(1): ReLU()

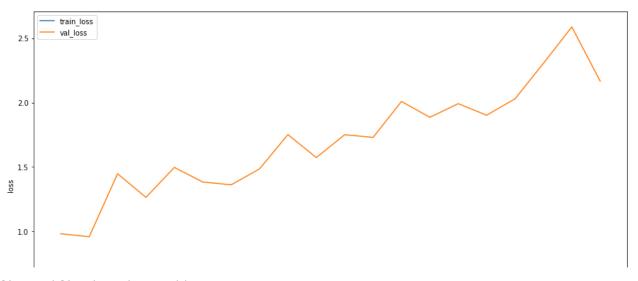
```
(2): MaxPool2d(kernel size=2, stride=2, padding=0, dilation=1, ceil mode=Fal
      (out): Linear(in features=2400, out features=42, bias=True)
Запустим обучение сети.
if val_dataset is None:
   val dataset = SimpsonsDataset(val files, mode='val')
train dataset = SimpsonsDataset(train files, mode='train')
history = train(train_dataset, val_dataset, model=simple_cnn, epochs=20, batch_size=4
                                   val loss 0.9810 train_acc 0.8778 val_acc 0.78 ^
    Epoch 001 train loss: 0.4100
    loss 0.31203843790764474
    epoch: 10%
                         | 2/20 [07:00<1:03:09, 210.53s/it]
    Epoch 002 train loss: 0.3120
                                  val loss 0.9580 train acc 0.9087 val acc 0.79
    loss 0.25523892327945585
                         | 3/20 [10:32<59:48, 211.07s/it]
    epoch: 15%|
    Epoch 003 train loss: 0.2552
                                  val loss 1.4474 train acc 0.9231 val acc 0.75
    loss 0.2255947984003141
                        | 4/20 [14:03<56:16, 211.03s/it]
    epoch: 20%
    Epoch 004 train loss: 0.2256
                                  val loss 1.2638 train acc 0.9329 val acc 0.79
    loss 0.21121878178637152
                         | 5/20 [17:29<52:15, 209.03s/it]
    epoch: 25%
    Epoch 005 train_loss: 0.2112
                               val loss 1.4965 train acc 0.9402 val acc 0.75
    loss 0.19090224160045172
    epoch: 30%|
                        | 6/20 [21:02<49:04, 210.35s/it]
    Epoch 006 train loss: 0.1909
                                  val_loss 1.3831 train_acc 0.9432 val_acc 0.78
    loss 0.19499205385086985
                         | 7/20 [24:34<45:43, 211.04s/it]
    epoch: 35%|
    Epoch 007 train_loss: 0.1950
                                  val_loss 1.3612 train_acc 0.9452 val_acc 0.80
    loss 0.18293535023803104
                         | 8/20 [28:06<42:17, 211.48s/it]
    epoch: 40%|
    Epoch 008 train loss: 0.1829
                                  val loss 1.4848 train acc 0.9484 val acc 0.79
    loss 0.16290664706896835
                     | 9/20 [31:38<38:48, 211.65s/it]
    epoch: 45%
    Epoch 009 train loss: 0.1629
                                  val_loss 1.7513 train_acc 0.9524 val_acc 0.79
    loss 0.17607613755810095
                        | 10/20 [35:11<35:18, 211.89s/it]
    epoch: 50%
    Epoch 010 train_loss: 0.1761
                                  val loss 1.5727 train acc 0.9499 val acc 0.79
    loss 0.16120736911657324
    epoch: 55%|
                        | 11/20 [38:43<31:46, 211.87s/it]
    Epoch 011 train_loss: 0.1612 val_loss 1.7504 train_acc 0.9559 val_acc 0.79
    loss 0.14267688926744293
                        | 12/20 [42:16<28:17, 212.21s/it]
    epoch: 60%|
    loss 0.1759391232708972
```

```
| 13/20 [45:47<24:44, 212.06s/it]
epoch:
       65%|
Epoch 013 train_loss: 0.1759
                                val loss 2.0087 train acc 0.9554 val acc 0.78
loss 0.15421034199017386
                     | 14/20 [49:19<21:10, 211.80s/it]
epoch: 70%|
Epoch 014 train loss: 0.1542
                                val loss 1.8856 train acc 0.9596 val acc 0.80
loss 0.1558329845728597
epoch: 75%|
                     | 15/20 [52:50<17:38, 211.75s/it]
Epoch 015 train loss: 0.1558
                                val loss 1.9917 train acc 0.9604 val acc 0.79
loss 0.14853542523689953
                    | 16/20 [56:23<14:07, 212.00s/it]
epoch: 80%
                                val loss 1.9018 train acc 0.9620 val_acc 0.78
Epoch 016 train loss: 0.1485
loss 0.15095704534470883
epoch: 85%
                | 17/20 [59:54<10:35, 211.69s/it]
Epoch 017 train loss: 0.1510
                                val loss 2.0294 train acc 0.9607 val acc 0.80
loss 0.15715820281295478
epoch: 90%|
                    | | 18/20 [1:03:10<06:54, 207.18s/it]
Epoch 018 train loss: 0.1572
                                val loss 2.3050 train acc 0.9618 val acc 0.79
loss 0.1583003557895689
epoch: 95%
                    | 19/20 [1:06:29<03:24, 204.59s/it]
Epoch 019 train loss: 0.1583
                                val_loss 2.5877 train_acc 0.9633 val_acc 0.79
loss 0.13913216482291704
                     | 20/20 [1:09:46<00:00, 209.31s/it]
epoch: 100%
Epoch 020 train loss: 0.1391
                                val loss 2.1661 train acc 0.9666 val acc 0.80
```

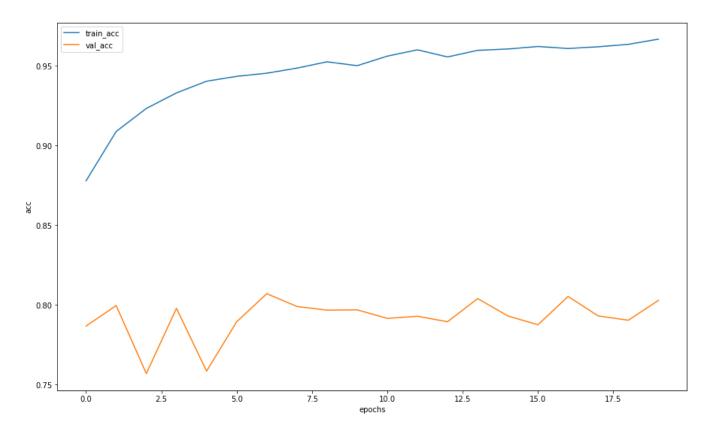
Построим кривые обучения

```
loss, acc, val_loss, val_acc = zip(*history)

plt.figure(figsize=(15, 9))
plt.plot(loss, label="train_loss")
plt.plot(val_loss, label="val_loss")
plt.legend(loc='best')
plt.xlabel("epochs")
plt.ylabel("loss")
plt.show()
```



```
plt.figure(figsize=(15, 9))
plt.plot(acc, label="train_acc")
plt.plot(val_acc, label="val_acc")
plt.legend(loc='best')
plt.xlabel("epochs")
plt.ylabel("acc")
plt.show()
```



▼ Ну и что теперь со всем этим делать?



Хорошо бы понять, как сделать сабмит. У нас есть сеть и методы eval у нее, которые позволяют перевести сеть в режим предсказания. Стоит понимать, что у нашей модели на последнем слое стоит softmax, которые позволяет получить вектор вероятностей того, что объект относится к тому или иному классу. Давайте воспользуемся этим.

```
def predict_one_sample(model, inputs, device=DEVICE):
    """Предсказание, для одной картинки"""
    with torch.no_grad():
        inputs = inputs.to(device)
        model.eval()
        logit = model(inputs).cpu()
        probs = torch.nn.functional.softmax(logit, dim=-1).numpy()
    return probs

random_characters = int(np.random.uniform(0,1000))
ex_img, true_label = val_dataset[random_characters]
probs_im = predict_one_sample(simple_cnn, ex_img.unsqueeze(0))
```

```
idxs = list(map(int, np.random.uniform(0,1000, 20)))
imgs = [val_dataset[id][0].unsqueeze(0) for id in idxs]

probs_ims = predict(simple_cnn, imgs)

label_encoder = pickle.load(open("label_encoder.pkl", 'rb'))

y_pred = np.argmax(probs_ims,-1)

actual_labels = [val_dataset[id][1] for id in idxs]

preds_class = [label_encoder.classes_[i] for i in y_pred]
```

Обратите внимание, что метрика, которую необходимо оптимизировать в конкурсе --- f1-score. Вычислим целевую метрику на валидационной выборке.

```
from sklearn.metrics import f1_score
f1_score(actual_labels, y_pred, average='micro')
    0.85
```

Сделаем классную визуализацию, чтобы посмотреть насколько сеть уверена в своих ответах. Можете исспользовать это, чтобы отлаживать правильность вывода.

```
font0 = FontProperties()
font = font0.copy()
font.set_family("fantasy")
prob_pred = predict_one_sample(simple_cnn, im_val.unsqueeze(0))
predicted_proba = np.max(prob_pred)*100
y_pred = np.argmax(prob_pred)
```

predicted_label = label_encoder.classes_[y_pred]
predicted_label = predicted_label[:len(predicted_label)//2] + '\n' + predicted_label
predicted_text = "{} : {:.0f}%".format(predicted_label,predicted_proba)



Попробуйте найти те классы, которые сеть не смогла расспознать. Изучите данную проблему, это понадобится в дальнейшем.

▼ Submit на Kaggle

import pandas as pd
df = pd.DataFrame()

df['Id'] = test_filenames



```
test_dataset = SimpsonsDataset(test_files, mode="test")
test_loader = DataLoader(test_dataset, shuffle=False, batch_size=4)
probs = predict(simple_cnn, test_loader)

preds = label_encoder.inverse_transform(np.argmax(probs, axis=1))
test_filenames = [path.name for path in test_dataset.files]

# ДОБАВЛЕНО: создание сабмита
```

▼ Приключение?

А теперь самое интересное, мы сделали простенькую сверточную сеть и смогли отправить сабмит, но получившийся скор нас явно не устраивает. Надо с этим что-то сделать.

Несколько срочныйх улучшейни для нашей сети, которые наверняка пришли Вам в голову:

- Учим дольше и изменяем гиперпараметры сети
- learning rate, batch size, нормализация картинки и вот это всё
- Кто же так строит нейронные сети? А где пулинги и батч нормы? Надо добавлять
- Ну разве Адам наше все? <u>adamW</u> для практика, <u>статейка для любителей</u> (очень хороший анализ), <u>наши</u> эксперименты для заинтересованных.
- Hy passe это deep learning? Bot ResNet и Inception, которые можно зафайнтьюнить под наши данные, вот это я понимаю (можно и обучить в колабе, а можно и <u>готовые</u> скачать).
- Данных не очень много, можно их аугументировать и доучититься на новом датасете (который уже будет состоять из, как пример аугументации, перевернутых изображений)
- Стоит подумать об ансамблях

Надеюсь, что у Вас получится!



✓ 0 сек. выполнено в 21:06

×