

▼ 训练部分

```
# 查看当前 python 版本
```

```
!python --version
```

```
Python 3.7.12
```

```
# 查看显卡当前执行情况
```

```
!nvidia-smi
```

```
Wed Mar  2 12:08:59 2022
```

NVIDIA-SMI		460.32.03		Driver Version: 460.32.03			CUDA Version: 11.2		

GPU	Name	Persistence-M		Bus-Id	Disp.A	Volatile	Uncorr. ECC		
Fan	Temp	Perf	Pwr:Usage/Cap	Memory-Usage		GPU-Util	Compute M.	MIG	M.
=====									
0	Tesla T4		Off	00000000:00:04.0	Off			0	
N/A	33C	P8	9W / 70W	0MiB / 15109MiB		0%	Default		N/A

Processes:									
GPU	GI	CI	PID	Type	Process name	GPU Memory			
	ID	ID				Usage			
=====									
No running processes found									



```
# clone 项目文件
```

```
!git clone https://github.com/liuyunhaozz/pytorch-book.git
```

```
Cloning into 'pytorch-book'...
```

```
remote: Enumerating objects: 592, done.
```

```
remote: Counting objects: 100% (8/8), done.
```

```
remote: Compressing objects: 100% (5/5), done.
```

```
remote: Total 592 (delta 3), reused 8 (delta 3), pack-reused 584
```

```
Receiving objects: 100% (592/592), 10.51 MiB | 25.08 MiB/s, done.
```

```
Resolving deltas: 100% (291/291), done.
```

```
# 更新项目文件代码
```

```
!cd pytorch-book/chapter07-AnimeGAN/ && git pull
```

```
remote: Enumerating objects: 7, done.
```

```

remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 4 (delta 3), reused 4 (delta 3), pack-reused 0
Unpacking objects: 100% (4/4), done.
From https://github.com/liuyunhaozz/pytorch-book
  2e24fe7..a685f57  master    -> origin/master
Updating 2e24fe7..a685f57
Fast-forward
 chapter07-AnimeGAN/main.py | 6 +---
 1 file changed, 4 insertions(+), 2 deletions(-)

```

从 Google 硬盘中导入训练集

```
!cp drive/MyDrive/faces.zip pytorch-book/chapter07-AnimeGAN/data
```

删除原有链接文件

```
!rm pytorch-book/chapter07-AnimeGAN/data/faces
```

解压训练集

```
!unzip pytorch-book/chapter07-AnimeGAN/data/faces.zip
```

将训练集图片移到工作目录

```
!mv faces pytorch-book/chapter07-AnimeGAN/data/
```

查看训练集文件数

```
!ls pytorch-book/chapter07-AnimeGAN/data/faces | wc -l
```

```
51223
```

安装所需依赖项

```
!cd pytorch-book/chapter07-AnimeGAN/ && pip install -r requirements.txt
```

开始训练

```
!cd pytorch-book/chapter07-AnimeGAN/ && python main.py train --gpu --vis=False
```

```
^C
```

▼ 测试部分

双击（或按回车键）即可修改

从 Google 硬盘中导入保存的模型文件

```
!cp drive/MyDrive/netd_200.pth pytorch-book/chapter07-AnimeGAN/checkpoints/
```

```
# 查看模型目录中生成的生成器和判别器的模型文件
```

```
!ls pytorch-book/chapter07-AnimeGAN/checkpoints/
```

```
netd_200.pth  netg_200.pth
```

```
# 根据训练出的生成器生成图片
```

```
!cd pytorch-book/chapter07-AnimeGAN && python main.py generate --nogpu --vis=False  
    --netd-path=checkpoints/netd_200.pth \  
    --netg-path=checkpoints/netg_200.pth \  
    --gen-img=30.png \  
    --gen-num=64
```

```
/usr/local/lib/python3.7/dist-packages/torchvision/utils.py:50: UserWarning: :  
warnings.warn(warning)
```



✓ 8 秒 完成时间: 21:08

