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[AUDITORY] ICBHI 2017 Respiratory Sound Database

- To: [AUDITORY@xxxxxxxxxxxxxx](#)
- Subject: [AUDITORY] ICBHI 2017 Respiratory Sound Database
- From: Bruno Rocha <[brunomachadorocha@xxxxxxxxxx](#)>
- Date: Tue, 9 Jan 2018 15:37:10 +0000
- Approved-by: [brunomachadorocha@xxxxxxxxxx](#)
- Arc-authentication-results: i=1; mx.google.com: spf=pass (google.com: domain of [owner-auditory@xxxxxxxxxxxxxx](#) designates 132.206.27.102 as permitted sender) smtp.mailfrom=[owner-auditory@xxxxxxxxxxxxxx](#); dmarc=fail (p=NONE sp=NONE dis=NONE) header.from=gmail.com
- Arc-message-signature: i=1; a=rsa-sha256; c=relaxed/relaxed; d=google.com; s=arc-20160816; h=list-archive:list-owner:list-subscribe:list-unsubscribe:list-help :precedence:to:subject:from:sender:reply-to:date:message-id :mime-version:approved-by:arc-authentication-results; bh=Q/EamoCHQcm5Ge2up84vbY5k7dzd4j6H5L83/pHouFI=; b=0wgqqEVzQedceETRlgeSJC0sz9dOmrFIEH4CXbP+ufMXNnj8a0/rmsnHWA++WaAaBFK NFOM7pziQOvZpavh8GEddFr7gxlBr4iAWAY4C+h3S+nNXoQhrpS0/awupYfMXNE+dInG fJakiSL+FU6aB4whJNi+C8yiSIRRV1I7MKBBEI46xFeo95IGyCzN1Rqrl2fbnUcF5W5 V6WgglfZWdw/ElgkQm9TzoOruCOcd49d5lu/kWujdPpVSZasucetdiaAJQ5a5bE9SD6V fDdWXZwZq+D1ez8dv5lvxGcwuhhmQAF68pL0z7C/09Zk34NHYkQcd92I5zD/r1T9PoOR qJ6Q==
- Arc-seal: i=1; a=rsa-sha256; t=1515561856; cv=none; d=google.com; s=arc-20160816; b=cJkbWcvlfMkpGVbhlyXVQ9CnnoKxIJ90t0gf6UbMx50kUZ0kfiSvvJE/FSRhFzbAf6 cu8lr1+XhAL7SDdananD9uOeBQuUH8WJllkyGGMRQopCL3T3ugQp7KoQgyBwXLTpZ0v4 OnaAzCIWsv0f5yp1LxFMRkeDb3BGPETYUzK01x5PWJ7z/Swm1IPxR63qkoWIPPngvDe p7S5/D/Ux+t4JLA6FmrtirsMCNeMYffpwATNnT+Sqd0AJL9zQtplzLGGMx8rUkPdF5Fb miDmNt9wUn9Vo9WBPfOxxzHOL7eHit2noLThqcmFFJWQy9B66xYwxADO3BgX0EWZBISI 0D8A==
- Authentication-results: mx.google.com: spf=pass (google.com: domain of [owner-auditory@xxxxxxxxxxxxxx](#) designates 132.206.27.102 as permitted sender) smtp.mailfrom=[owner-auditory@xxxxxxxxxxxxxx](#); dmarc=fail (p=NONE sp=NONE dis=NONE) header.from=gmail.com
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This Kaggle dataset includes:

- 920 .wav sound files
- 920 annotation .txt files
- A text file listing the diagnosis for each patient
- A text file explaining the file naming format
- A text file listing 91 names (filename_differences.txt)
- A text file containing demographic information for each patient

listening

```
! pip install pydub --quiet
```

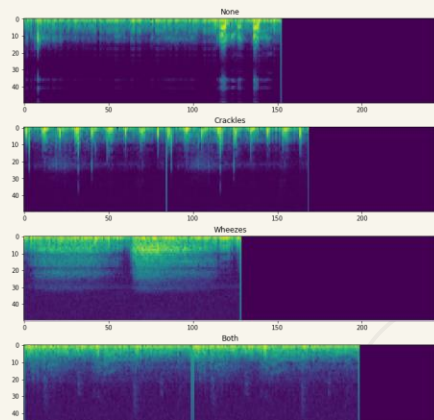
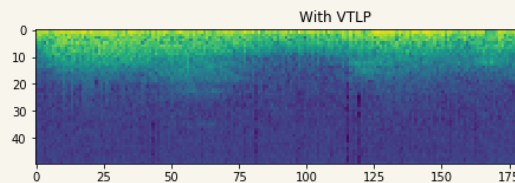
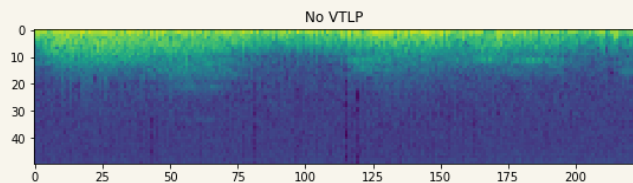
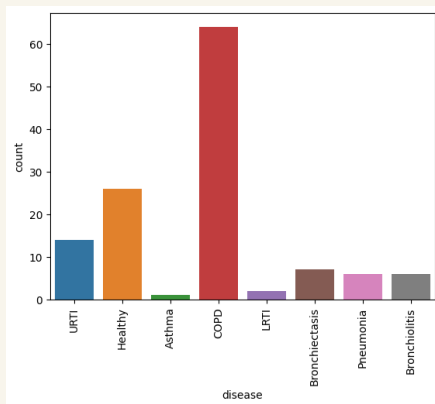
```
[ ] from pydub import AudioSegment
import IPython

audio_file = '213_1p5_Pr_mc_AKGC417L.wav'

path = input_path+'Respiratory_Sound_Database/Respiratory_Sound_Database/audio_and_txt_files/' + audio_file

IPython.display.Audio(path)
```

0:14 / 0:20



audio.ipynb ☆

파일 수정 보기 삽입 런타임 도구 도움말 모든 변경사항이 저장됨

+ 코드 + 텍스트

```
generated_audio = generator(noise)

with tf.GradientTape() as gen_tape, tf.GradientTape() as disc_tape:
    generated_output = discriminator(generated_audio)
    real_output = discriminator(real_audio_samples)

    gen_loss = generator_loss(generated_output)
    disc_loss = discriminator_loss(real_output, generated_output)

gradients_of_generator = gen_tape.gradient(gen_loss, generator.trainable_variables)
gradients_of_discriminator = disc_tape.gradient(disc_loss, discriminator.trainable_variables)

generator_optimizer.apply_gradients(zip(gradients_of_generator, generator.trainable_variables))
discriminator_optimizer.apply_gradients(zip(gradients_of_discriminator, discriminator.trainable_variables))


def train(dataset, epochs):
    for epoch in range(epochs):
        for audio_sample in dataset:
            train_step(audio_sample)
```


[66] audio_sample_length = 1000
generated_audio = generator(tf.random.normal([1, audio_sample_length]))

from IPython.display import Audio
Audio(generated_audio.numpy().flatten(), rate=sampling_rate)

0:00 / 0:33



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Lung Masks of a Subset of Chest X-ray Images from the NLM Open-i® Indiana Dataset




```
fast-DreamBooth.ipynb ☆
파일 수정 보기 삽입 런타임 도구 도움말
+ 코드 + 텍스트

[1] from google.colab import drive
drive.mount('/content/gdrive')

Mounted at /content/gdrive

[2] @markdown # Dependencies

from IPython.utils import capture
import time
import os

print('! Installing dependencies...')
with capture.capture_output() as cap:
    os.chdir('/content')
    !pip install --no-deps accelerate==
    !wget -q -i https://raw.githubusercontent.com/
    !dpkg -i *.deb
    !tar -C / --zstd -xf gcolabdeps.tar.zs
    !rm *.deb | rm *.zst | rm *.txt
    !git clone -q --depth 1 --branch main
    !pip install gradio==3.16.2 --no-deps

if not os.path.exists('gdrive/MyDrive/'):
    !mkdir -p gdrive/MyDrive/
    !mv COXFLAGS=stdc++14
    !wget -q https://github.com/gperft/
    !wget -q https://github.com/TheLas
    %cd /content/gperfttools
    !patch -p1 -< /content/patch
    !./configure --enable-minimal --en
    !mkdir -p /content/gdrive/MyDrive/
    !mv LD_PRELOAD=/content/gdrive/My
    %cd /content
    !rm *.tar.gz Patch && rm -r /conte
else:
    !mv LD_PRELOAD=/content/gdrive/My

os.environ['TF_CPP_MIN_LOG_LEVEL'] = '
os.environ['PYTHONWARNINGS'] = 'ignore

print('! Done, proceed')

Installing dependencies...
Done, proceed

Model Download
```



CHNCXR_0343_1.png



CHNCXR_0342_1.png



CHNCXR_0341_1.png



CHNCXR_0340_1.png

