

Jupyterhub + AWS



- Data science is hard
- Data science collaboration is harder
- Jupyterhub in the cloud is a cheap and easy way to collaborate

Jupyter + AWS

jupyter spectrogram Last Checkpoint: an hour ago (autosaved)



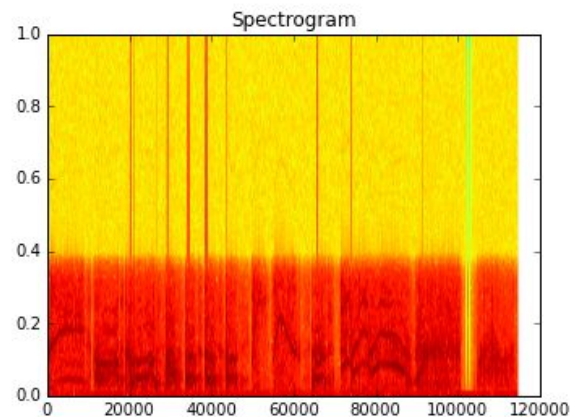
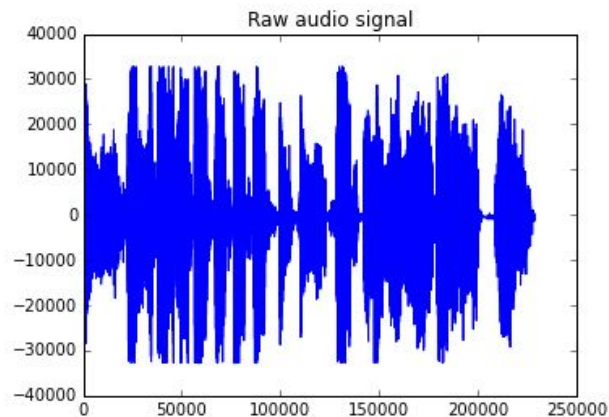
File Edit View Insert Cell Kernel Help

Python 2

Cell Toolbar: None

```
In [1]: from scipy.io import wavfile  
rate, x = wavfile.read('test_mono.wav')
```

```
In [2]: import matplotlib.pyplot as plt  
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(12, 4))  
ax1.plot(x); ax1.set_title('Raw audio signal')  
ax2.specgram(x); ax2.set_title('Spectrogram')  
plt.show()
```



Demo time!

Jupyter + AWS

Let's try it out!

```
In [6]: %cp -R ../kaggle-titanic/* .
```

```
In [7]: %ls
```

```
data/      KaggleAux/  LICENSE    ReadMe.md   Titanic.ipynb  
images/    kaggle-titanic/ Python Examples/ requirements.txt  Untitled.ipynb
```

Github: <https://github.com/rok/awshub>

Contact: rok@mihevc.org

Questions?

Jupyter + AWS

General Purpose - Current Generation

t2.nano	1	Variable	0.5	EBS Only	\$0.007 per Hour
t2.micro	1	Variable	1	EBS Only	\$0.014 per Hour
t2.small	1	Variable	2	EBS Only	\$0.028 per Hour
t2.medium	2	Variable	4	EBS Only	\$0.056 per Hour
t2.large	2	Variable	8	EBS Only	\$0.112 per Hour
m4.large	2	6.5	8	EBS Only	\$0.132 per Hour
m4.xlarge	4	13	16	EBS Only	\$0.264 per Hour
m4.2xlarge	8	26	32	EBS Only	\$0.528 per Hour
m4.4xlarge	16	53.5	64	EBS Only	\$1.056 per Hour
m4.10xlarge	40	124.5	160	EBS Only	\$2.641 per Hour
m3.medium	1	3	3.75	1 x 4 SSD	\$0.073 per Hour
m3.large	2	6.5	7.5	1 x 32 SSD	\$0.146 per Hour
m3.xlarge	4	13	15	2 x 40 SSD	\$0.293 per Hour
m3.2xlarge	8	26	30	2 x 80 SSD	\$0.585 per Hour