

```
In [1]: !hostname
```

```
node2.novalocal
```

```
In [2]: !pwd
```

```
/home/student4_10
```

```
In [3]: %ls
```

```
Swayze.ipynb
```

```
In [4]: %ll
```

```
total 68  
-rw-r--r-- 1 student4_10 67651 Jul  4 15:23 Swayze.ipynb
```

```
In [5]: import happybase  
import matplotlib.pyplot as plt  
import pandas as pd
```

```
In [6]: connection = happybase.Connection(host='89.208.221.132',port=9090,autoconnect=True)
```

```
In [7]: table = connection.table('Student4_10')
```

```
In [1]: #for key, value in table.scan(row_start='aaa', row_stop='xyz'):  
#      print (key, value)
```

```
In [9]: rowkey1 = 'default005b12af-1373-4bc6-b009-7c7d3b2f9b71'  
rowkey2 = 'default00b9e717-100b-4c25-82d0-413932ea4e32'  
rowkey3 = 'default05b25928-9433-406a-8244-9e0f86799ca5'  
rowkey4 = 'default0b0f0eb5-1a92-4022-ab2e-6c950189efcc'  
rowkey5 = 'defaultfc066f73-8ae8-4757-b5c5-aa4585635e0e'
```

```
In [10]: rows=table.rows([rowkey1,rowkey2,rowkey3,rowkey4,rowkey5])
```

```
In [12]: for key, value in rows:  
         print(key,value)
```

```
b'default005b12af-1373-4bc6-b009-7c7d3b2f9b71' {b'Message: pCol': b'Jul  1 02:01:01 n  
ode3 run-parts(/etc/cron.hourly)[24671]: finished 0anacron'}  
b'default00b9e717-100b-4c25-82d0-413932ea4e32' {b'Message: pCol': b'Jul  1 01:01:01 n  
ode3 anacron[12586]: Normal exit (0 jobs run)'}  
b'default05b25928-9433-406a-8244-9e0f86799ca5' {b'Message: pCol': b'Jul  3 03:42:16 n  
ode3 run-parts(/etc/cron.daily)[8833]: finished man-db.cron'}  
b'default0b0f0eb5-1a92-4022-ab2e-6c950189efcc' {b'Message: pCol': b'Jul  1 02:01:01 n  
ode3 anacron[24669]: Normal exit (0 jobs run)'}  
b'defaultfc066f73-8ae8-4757-b5c5-aa4585635e0e' {b'Message: pCol': b'Jul  2 05:01:01 n  
ode3 run-parts(/etc/cron.hourly)[28688]: finished 0anacron'}
```

```
In [13]: df_raw = pd.DataFrame(rows, columns = ['RowKey', 'Column+Cell'])
```

```
In [14]: df_raw
```

```
Out[14]:
```

	RowKey	Column+Cell
0	b'default005b12af-1373-4bc6-b009-7c7d3b2f9b71'	{b'Message:pCol': b'Jul 1 02:01:01 node3 run-...
1	b'default00b9e717-100b-4c25-82d0-413932ea4e32'	{b'Message:pCol': b'Jul 1 01:01:01 node3 anac...
2	b'default05b25928-9433-406a-8244-9e0f86799ca5'	{b'Message:pCol': b'Jul 3 03:42:16 node3 run-...
3	b'default0b0f0eb5-1a92-4022-ab2e-6c950189efcc'	{b'Message:pCol': b'Jul 1 02:01:01 node3 anac...
4	b'defaultfc066f73-8ae8-4757-b5c5-aa4585635e0e'	{b'Message:pCol': b'Jul 2 05:01:01 node3 run-...

```
In [15]: import collections
rows_as_dict = dict(table.rows([rowkey1, rowkey2]))
```

```
In [16]: RowKey = []
Length = []
WordsCount = []

for key, value in rows:
    data = str(value[b'Message:pCol'])
    RowKey.append(key)
    Length.append(len(data))
    words = data.split(' ')
    WordsCount.append(len(words))
```

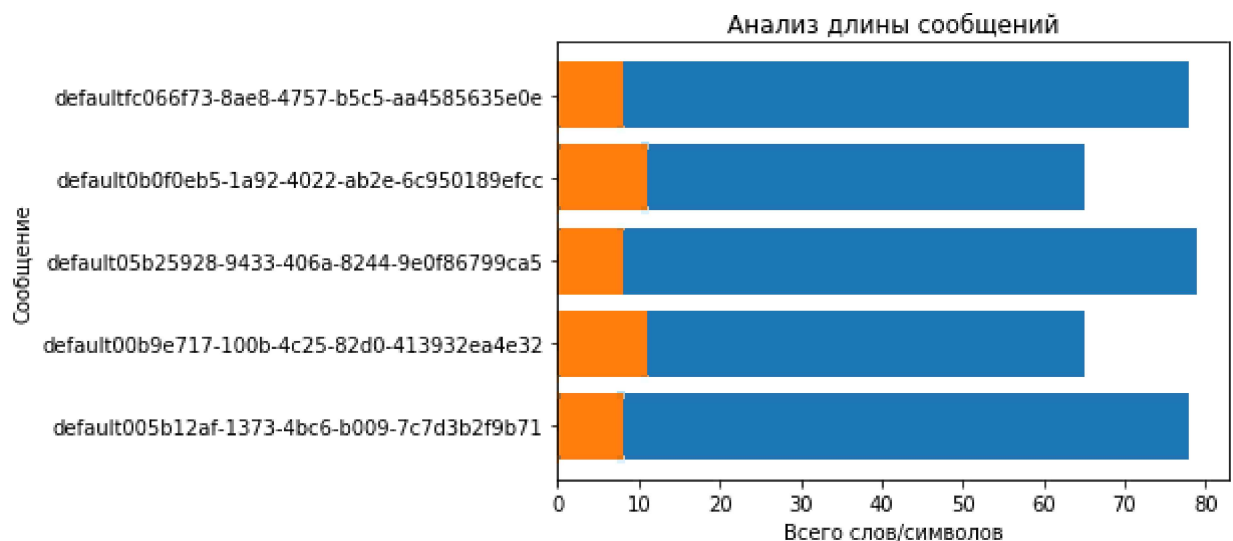
```
In [17]: WordsCount
```

```
Out[17]: [8, 11, 8, 11, 8]
```

```
In [18]: fig, ax = plt.subplots()
ax.barh(RowKey, Length)
ax.barh(RowKey, WordsCount)

ax.set(xlabel='Всего слов/символов', ylabel='Сообщение',
       title='Анализ длины сообщений')
```

```
Out[18]: [Text(0, 0.5, 'Сообщение'),
Text(0.5, 0, 'Всего слов/символов'),
Text(0.5, 1.0, 'Анализ длины сообщений')]
```



```
In [19]: !cp /home/student4_10/Swayze.ipynb /tmp/Swayze.ipynb
```