# 1.2.2 (Unix)

#### In [71]:

```
# Extract username and store them into "tweets_username.txt"
!grep -P -o "#[^ \t]+#[^ \t]+" tweets.txt > tweets_twohashtags.txt
```

## In [88]:

```
# First 10 lines in "tweets_twohashtags.txt"
!head -10 tweets_twohashtags.txt

#trueshit...#scaryshit...but
#!%#$^!@%&
#honey.....#imjussayn
#pause....#megapause
#9:#Virtualization
#8:#Offshore
#thatisall--#agree
#FF--#FF
#LENT....#SMH
#UCanTakeTheKidOutHoodBut#UCanTakeTheKidOutHoodBut#UCanTakeTheKidOutHoodBut
#UCanTakeTheKidOutHoodBut#UCanTakeTheKidOutHoodBut
```

#### In [89]:

```
# Calculate frequence of hashtags and store the result into "result_twohastags_7
50000.txt"
!sort tweets_twohashtags.txt | uniq --count | sort -nr > result_twohashtags_7500
00.txt
```

# In [90]:

```
# Result of top 10 tweets that have at least two hashtags
! head -10 result_twohashtags_750000.txt
```

```
8 #affiliate#marketing
5 #zewdy#zewdy
5 #BGC#BGC
5 ####
4 #??PFoundersday#??PFoundersday
4 #Celebrity,#Philanthropy
3 #AKA#AKA
3 #39;What's
3 #39;streaming'
3 #39;Green'
```

#### In [104]:

```
# Shell script for 1.2 (2)
!cat 1_3.sh
```

#!/bin/sh

grep -P -o "#[ $^ \t^=$ " tweets.txt > tweets\_twohashtags.txt sort tweets\_twohashtags.txt | uniq --count | sort -nr > result\_twoh ashtags\_750000.txt head -10 result twohashtags 750000.txt

## In [105]:

```
# Runtime of 1.2 (2) using Unix command !time bash 1_3.sh
```

- 8 #affiliate#marketing
- 5 #zewdy#zewdy
- 5 #BGC#BGC
- 5 ####
- 4 #??PFoundersday#??PFoundersday
- 4 #Celebrity, #Philanthropy
- 3 #AKA#AKA
- 3 #39; What & #39; s
- 3 #39;streaming'
- 3 #39; Green & #39;
- 0.17user 0.01system 0:00.18elapsed 100%CPU (0avgtext+0avgdata 3108m axresident)k

Oinputs+48outputs (Omajor+828minor)pagefaults Oswaps