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Script started on Mon Sep 19 23:19:05 2016
^[]0;ib501_stud12@compute-0-18:~/shell^G^[[?1034h^[[01;31m^B23:19:08 ^[[01;32m^Bib501_stud12 ^[[02;36m^Bcompute-0-18 ^[[
01;34m^B/home/a-m/ib501_stud12/shell ^[[00;33m^B^[[00m

$ cat fs^Gt_tally.py
#!/usr/bin/python

in_file = '/home/a-m/ib501_stud12/shell/fst/batch_2.fst_1-2.Chr_only.tsv'
fst_total = 0.0
count = 0

# Create a dictionary of chromosomes
chrom = {}

fh = open(in_file, 'r')
next(fh)

# Iterate over each line in the file
for line in fh:
    # Remove new lines
    line = line.strip('\n')
    # We can split TSV files
    parts = line.split('\t')

    # print the fst value
    count = count + 1
    fst_total = float(parts[8]) + float(fst_total)

    # save chromosomes number with count number
    chrom[count] = parts[4]

# print avg fst
print "printing avg fst:", float(fst_total) / float(count)

# print uniq chromosomes

chrom_uniq = list()
for i in chrom.values():
    if i in chrom_uniq:
        continue
    else:
        chrom_uniq.append(i)
print "here the list of uniq chromosomes:", chrom_uniq

^[]0;ib501_stud12@compute-0-18:~/shell^G^[[01;31m^B23:19:15 ^[[01;32m^Bib501_stud12 ^[[02;36m^Bcompute-0-18 ^[[01;34m^B/
home/a-m/ib501_stud12/shell ^[[00;33m^B^[[00m

$ cat fst_tally.py ^H^H^[[1P^H^[[1P^H^[[1P^H^[[1P^[[1@.^[[1@/
printing avg fst: 0.00179093036455
here the list of uniq chromosomes: ['groupI', 'groupII', 'groupIII', 'groupIV', 'groupIX', 'groupV', 'groupVI', 'groupVI
I', 'groupVIII', 'groupX', 'groupXI', 'groupXII', 'groupXIII', 'groupXIV', 'groupXIX', 'groupXV', 'groupXVI', 'groupXVII
', 'groupXVIII', 'groupXX', 'groupXXI']
^[]0;ib501_stud12@compute-0-18:~/shell^G^[[01;31m^B23:19:24 ^[[01;32m^Bib501_stud12 ^[[02;36m^Bcompute-0-18 ^[[01;34m^B/
home/a-m/ib501_stud12/shell ^[[00;33m^B^[[00m

$ cat ~/shell/fst/batch_2.fst_1-2.Chr_only.tsv | sed 1d | cut -f 9 | awk '{total_lines=total_lines+$1} END {print total_
lines/NR}'
0.00179093
^[]0;ib501_stud12@compute-0-18:~/shell^G^[[01;31m^B23:19:58 ^[[01;32m^Bib501_stud12 ^[[02;36m^Bcompute-0-18 ^[[01;34m^B/
home/a-m/ib501_stud12/shell ^[[00;33m^B^[[00m

$ cat ~/shell/fst/batch_2.fst_1-2.Chr_only.tsv | sed 1d | cut -f 5 | sort -h | uniq | sort -h
groupI
groupII
groupIII
groupIV
groupIX
groupV
groupVI
groupVII
groupVIII
groupX
groupXI
groupXII
groupXIII
groupXIV
groupXIX
groupXV
groupXVI
groupXVII
groupXVIII
groupXX
groupXXI
^[]0;ib501_stud12@compute-0-18:~/shell^G^[[01;31m^B23:20:08 ^[[01;32m^Bib501_stud12 ^[[02;36m^Bcompute-0-18 ^[[01;34m^B/
home/a-m/ib501_stud12/shell ^[[00;33m^B^[[00m

$ exit
exit

Script done on Mon Sep 19 23:20:22 2016
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