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# for a given day, get the popularity of a drive model: # cat data_Q3_2018.zip_folder/2018-07-27.csv | sed '1d' | cut
-d',' -f3 | sort | uniq -c | sort -g -k1,1 # for every CSV file, get the date # find . | grep csv | while read fullpath; do
     fullpath | sed 's/\/ /q' | sed 's/\.csv//q' | sed 's/zip folder/ /q' | sed 's/data //q'; done
     # create a file per day containing the popularity of each model
     https://stackoverflow.com/questions/17017732/changing-delimiter-of-the-unig-command
     https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.read fwf.html
     date; find . | grep csv | while read fullpath; do
       filename=`echo
echo
                                                                                |fullpath | sed
's/zip_folder/_/g' | sed 's/data_//g' | sed 's/\.csv//g' | sed 's/\//_/g' | sed 's/\.//g' | sed 's/^_//g'; cat
fullpath | sed '1d' | cut -d',' -f3 | sort | uniq -c | sort -g -k1,1 | sed 's/^ *//;s/ /,/' > count_of_models_on_ [filename].dat; done;
date
    In [1]: import pandas
               print('pandas',pandas.__version__)
               import glob
               import pickle
               import numpy
               import seaborn
               import time
               import datetime
               import matplotlib.pyplot as plt
              pandas 0.23.4
    In [2]: list of dat = glob.glob('data synthesized from csvs/count of models per
              day/count_of_models_on_*.dat')
              print(len(list of dat))
              2088
    In [3]: list of df=[]
               for path to dat in list of dat:
                   date str = path to dat[:-len('.dat')].split(' ')[-1]
                   date as dt = datetime.datetime.strptime(date str, '\$Y-\$m-\$d')
                    print(path to dat)
                   df = pandas.read csv(path to dat, header=None)
                   df.columns=[date as dt, 'model']
                   df=df.set index('model')
                   list of df.append(df)
list_of_models=[] for df in list_of_df: for model_name in df.index: list_of_models.append(model_name)
list of models = list(set(list of models)) print(len(list of models))
    In [4]: df = pandas.concat(list of df,sort=False,axis=1) # join all the datafram
               es into a single df
              df = df.reindex(sorted(df.columns), axis=1) # order columns by calendar
                date
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In [5]: df.shape
Out[5]: (113, 2088)
```

In [21]: sorted_df = df.loc[df.sum(axis=1).sort_values(ascending=False).index]

In [27]: seaborn.set(rc={'figure.figsize':(12,10)})
 seaborn.heatmap(sorted_df);
 plt.title('Backblaze drives by model over time',fontsize=14);

