## Read CSV files, select columns, extract category and save to new CSVs

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In [1]: import os
         import numpy as np
         import pandas as pd
         import json
In [2]: base_path = '../data/raw/kickstarter_csvs'
         target_path = '../data/interim/kickstarter_csvs'
In [3]: # list of columns to select and save
         properties = ['id', 'name', 'goal', 'pledged', 'usd_pledged', 'state', 'slug', 'disable_communi
cation', 'country', 'currency', 'deadline', 'state_changed_at', 'created_at', 'launched_at', 's
         taff_pick', 'backers_count', 'blurb', 'category', 'spotlight']
         properties = ['id', 'name', 'goal', 'pledged', 'usd_pledged', 'state', 'slug', 'disable_communi
cation', 'country', 'currency', 'deadline', 'state_changed_at', 'created_at', 'launched_at', 's
         taff pick', 'backers count', 'blurb', 'spotlight']
         len(properties)
Out[3]: 18
In [5]: # read all csvs, select desired columns, and save as new csvs in the same format
         # extract category and location from JSON strings
         new_dfn = [] # list of new dataframes for concatenation
         for folderName, subfolders, filenames in os.walk(base_path):
              _, dname = os.path.split(folderName)
             dname = os.path.join(target path, dname)
             #os.mkdir(dname)
              for filename in filenames:
                  if filename.endswith('.csv'):
                      csv_fname = os.path.join(folderName, filename)
                      #print("File", csv_fname)
                      dfs = pd.read csv(csv fname)
                                                                             # read into DataFrame
                      y = dfs['category'].map(lambda x: json.loads(x)['slug']) # parse JSON
                      dfn = dfs.reindex(columns=properties, copy=True) # create a new dataframe
                      new_dfn.append(dfn.assign(category=y.values))
                                                                              # add a parsed category
                      #print('New DF object:', new_dfn[-1].head(1))
                      # save into separate csv files
                      #dfn = dfs.reindex(columns=properties, copy=True) # create a new dataframe
                      #dfn = dfn.assign(category=y.values)
                                                                              # add a parsed category
                      #dfn.to csv(os.path.join(dname, filename))
                                                                              # save new dataframe
                       #print("Newfile: ", os.path.join(dname, filename))
                      #print(dfs.columns)
In [5]: len(new_dfn)
Out[5]: 961
In [6]: df_single = pd.concat(new_dfn, ignore_index=True)
In [7]: df single.shape
Out[7]: (3935527, 19)
```

In [9]: df\_single.head()

Out[9]:

	id	name	goal	pledged	usd_pledged	state	slug	disable_communicatio	
0	64486721	Along The Lines Of	300.0	300.0	460.241994	successful	along-the-lines-of	False	
1	755137951	Portrait of #NOW	500.0	595.0	595.000000	successful	portrait-of-now	False	
2	796895846	A Dollar and a Dream	300.0	1071.0	1071.000000	successful	a-dollar-and-a- dream-0	False	
3	2136864323	Correspondences: The Exhibition	1600.0	1735.0	1735.000000	successful	correspondences- the-exhibition	False	
4	989395377	Abstraction of Utopia	750.0	760.0	760.000000	successful	abstraction-of- utopia	False	

In [58]: df\_id.head(2)

Out[58]:

	name	goal	pledged	usd_pledged	state	slug	disable_communication	country	currency
id									
18520	Grandma's are Life	15000.0	62.0	62.000000	failed	grandmas- are-life	False	US	USD
21109	Meta	150.0	173.0	258.036032	successful	meta	False	GB	GBP

In [56]: df\_id.shape Out[56]: (263765, 18) In [57]: df\_id.to\_csv(os.path.join(target\_path, 'kick\_id.csv')) # save new dataframe

• The above is the processed single CSV file containing unique data over the history of kickstarter