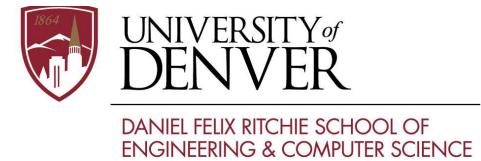
Gaper Taxroll Scrubber

Duncan Ferguson

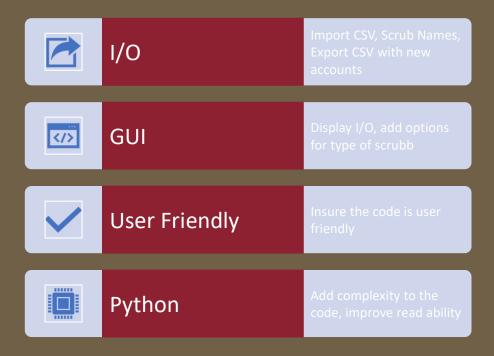
Student ID: 871-641-260

Class: COMP-3006-2

Teacher: Dalton Crutchfield@du.edu



## Scope of Project

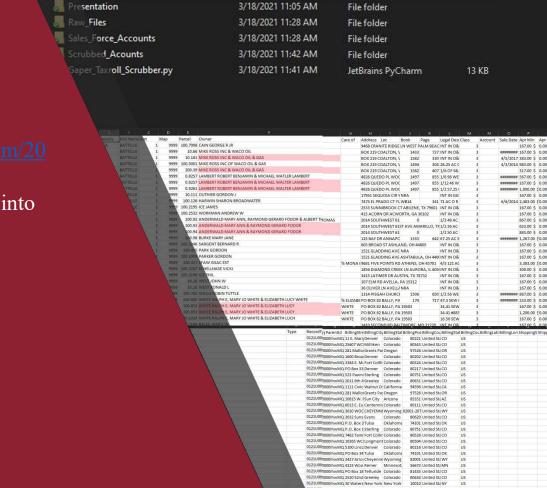




#### The Start

- Creation of the Blog Spot

  - Blog walks through the in steps that went into creating the Gaper Taxroll Scrubber.
- Starting Data
  - Program File
  - Raw Taxroll File
  - SF Accounts



Dropbox (Personal) > Duncan > PYTHON\_REPOSITORY > pythonsoftwaredevelopmentferguson > Gaper\_Taxroll\_Scrubber Date modified

3/18/2021 5:39 AM

Type

File folder

DihwMQ 19699 We LaSalle Colorado DihwMQ 1201 Willi Denver Colorado

MQ 2629 East (West Covi California 91791 United Sta CA MQ 821 Custer South Dak 57730 United Sta SD

80645 United StaCO 90219 United StrCO

Size

Name

Images

#### Main Function

- Asks user to upload a list
- Ask user to select columns with name
- Ask user to upload a master account file
- Ask user to select column with name
- Ask user to select return Id column
- Ask user where to save new accounts
- Glorified index(match()) with scrubbing abilities and user prompts

```
rawlist = startoption("Welcome to the Gaper Taxroll.\nTo start we will have to import
rawlist_account_col = HeaderGui("Click the button that contains the \nACCOUNTS/NAME/OW
                                list(rawlist.columns.values))
names_scrubbed_list = fixnames(rawlist, rawlist_account_col.choice)
sf_accounts = startoption("We now have to select an update the salesforce accounts file
sf_account_col = HeaderGui("Click the button that contains the \nNAMES for comparing a
                           list(sf_accounts.columns.values))
raw_file_w_id = lookup_ids(names_scrubbed_list, sf_ids.choice, sf_accounts, sf_account_
# Creating new accounts sheet
new_contacts = create_new_accounts(raw_file_w_id)
endoption(new_contacts)
```

#### **GUI Class Creation**

- Creation of GUI's to help with user prompts
- Creation of GUI to help with selecting the correct columns
- Class function makes it easy to create new prompts without having to recode tkinter
- Functionality allows text to be passed through into the GUI

### Fixing Names

- Re-wrote code to hand pandas
- Kept lastname and suffix swaps
- Open ability to plug in future code, i.e. machine learning
- Introduction to handling pandas more

## Lookup and Filter

- Panda lookup
  - Simple code
  - Took me forever to figure out and led to rewrites
- Filtering the accounts
  - Taking out the matching IDs
  - Taking out business accounts
  - Dedubbing names

# Save File and Conclusions

- Program is user friendly
- Produces save new account sheet
- Needs more work done to addresses for double names
- Learned a lot about classes, tkinter and pandas
- Can be expanded upon and turned into actual software
- Would love to plug machine learning into it to full go through complexities of names and addresses
- Want to learn how to save it as a python package and make it easy to send to other people

```
def endoption(panda_file):
    """This option asks the user if they would like to save their not dataframe and converts it into a csv through the GUI Class to be decide = GUI([True, "Where Would you Like to save the new Accoust "Note, you will have to check the cities be [True, "Exit"]) # Save option through looping gui if decide.button_1_pushed:
    filepath = asksaveasfile(defaultextension=".csv")
    filepath.write(panda_file.to_csv(header=True, index=False, exit())
    else:
        exit()
```

SF_Account_Names	Address	Street_Address_Raw	City	Sta
ADRIAN L HAUGHT	5260 DUPONT RD PARKERSBURG, WV 26101	5260 DUPONT	PARKERSBURG	w
AGNES M RITZ	69 HEISKELL AVE WHEELING, WV 26003	69 HEISKELL	WHEELING	W
ALEX HENNEN	4341 MASON DIXON HWY MAIDSVILLE, WV 26541	4341 MASON	MAIDSVILLE	w
ALFRED L MANCINI	1228 PHILIP ST MORGANTOWN, WV 26501	1228 PHILIP	MORGANTOWN	w
ALICE HAUGHT	PO BOX 62 WANA, WV 26590	PO BOX 62	WANA	W
ALICE BALES GRAIGER	538 BUTTERNUT LN MATTHEWS, NC 28104	538 BUTTERNUT	MATTHEWS	NC
ALICE FAYE DEMASTUS	3 BUCKINHAM PL PINEHURST, NC 28374	3 BUCKINHAM	PINEHURST	NC
AMANDA M BURNS	454 MARANDA RUN RD GRAYSVILLE, PA 15337	454 MARANDA	GRAYSVILLE	PA
AMDREW M CUNNINGHAM	910 STOUT ST BRIDGEPORT, WV 26330	910 STOUT	BRIDGEPORT	w
ANDREW W WORKMAN	415 ACORN DR ACWORTH, GA 30102	415 ACORN	ACWORTH	GA
APRIL RICCI	217 MAIN ST BENTLEYVILLE, PA 15314	217 MAIN	BENTLEYVILLE	PA
AUBREY L HAUGHT	5260 DUPONT RD PARKERSBURG, WV 26101	5260 DUPONT	PARKERSBURG	W
BARBARA A TAYLOR	PO BOX 93 HUNDRED, WV 26575	PO BOX 93	HUNDRED	W
BARBARA ANN BELL TROUP	1000 GOOD HOPE RD MECHANICSBURG, PA 17050	1000 GOOD	MECHANICSBURG	PA
BARBARA CORBETT	626 CABOT CIR JONESVILLE, MI 49250	626 CABOT	JONESVILLE	MI
BARBARA E SHRIVER	9050 MASON DIXON HWY WADESTOWN, WV 26590	9050 MASON	WADESTOWN	W
BARBARA ELLEN HENDERSON	1 NETHERLAND BLVD SCHENECTADY, NY 12306	1 NETHERLAND	SCHENECTADY	NY
BARBARA J HOBDAY	3197 MAYFLOWER LN SUMTER, SC 29150	3197 MAYFLOWER	SUMTER	SC
BARBARA P PALMER	215 BUCKHANNON AVE CLARKSBURG, WV 26301	215 BUCKHANNON	CLARKSBURG	W
BARBARA SNYDER	1336 WILSON CIR MORGANTOWN, WV 26505	1336 WILSON	MORGANTOWN	w
BERNARD R SARGENT	605 BROAD ST ASHLAND, OH 44805	605 BROAD	ASHLAND	ОН
BERTHA ELLEN PRICE	5260 DUPONT RD PARKERSBURG, WV 26101	5260 DUPONT	PARKERSBURG	W
BETTY J CROSS	524 MILFORD ST MORGANTOWN, WV 26505	524 MILFORD	MORGANTOWN	w
BETTY JEAN MCCONNELL	92 OGDEN FARM RD MOOREFIELD, WV 26836	92 OGDEN	MOOREFIELD	w
BETTY LYNCH	440 DRUMMOND ST MORGANTOWN, WV 26505	440 DRUMMOND	MORGANTOWN	w
BETTY M MANNING	40622 CARLISLE AVE ELYRIA, OH 44035	40622 CARLISLE	ELYRIA	OH
BILLY (AGT) ATKINS	3122 N GREYSTONE DR MORGANTOWN, WV 26508	3122 N	MORGANTOWN	w
BOB MICHAEL	96 MIDDLE FORK RD BURTON, WV 26562	96 MIDDLE	BURTON	w
BONNIE CAIN	645 HILLWOOD DR MORGANTOWN, WV 26508	645 HILLWOOD	MORGANTOWN	W١
BONNY L CAIN	231 DEER AVE NICEVILLE, FL 32578	231 DEER	NICEVILLE	FL
BRYAN K SNYDER	160 ROCKY RIDGE RD WAYNESBURG, PA 15370	160 ROCKY	WAYNESBURG	PA
C D TENNANT	5260 DUPONT RD PARKERSBURG, WV 26101	5260 DUPONT	PARKERSBURG	W
C RAY MARTIN	5260 DUPONT RD PARKERSBURG, WV 26101	5260 DUPONT	PARKERSBURG	w