Script Walkthrough



What each script does

DIFF (Two files)

- Can compare two Excel files
- Highlights differences: Green = new, Red = changed, Grey = removed

Format Check (One file)

- Setup: (only needs to be run once) Uses a sample file as a reference for formatting Creates json file
- Running: Analyzes given file with json as reference for formatting

Number Check (One file)

- Setup: Uses 3x Standard Deviation from numeric column as default values (Covers ~99.7%)
- Running: Compares values in numeric column with range created by setup

Be sure to have Python or Anaconda

Links to Python Distributions (Pick one)

Anaconda:

https://www.anaconda.com/distribution/

Miniconda:

https://docs.conda.io/en/latest/miniconda.html

Vanilla Python:

https://www.python.org/downloads/release/python-374/

Command Line stuff - Changing Directory (Folder)

Type cd followed by a path (Case insensitive) to change directories

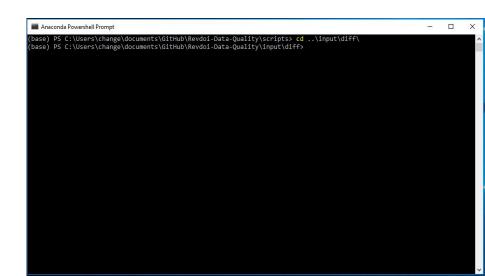
Note: If the path contains white space, put it in quotes

E.g. cd documents/github/revdoi-data-quality/scripts

Command Line stuff - Changing Directory (Folder)

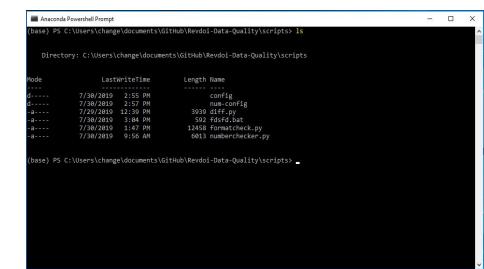
To navigate backwards, type cd..

Can be followed by any path within that directory



Command Line stuff - dir / ls

dir or ls will print out anything listed under the current directory



Command Line stuff - Running Python scripts

Type python followed by the name of the script

E.g python hello.py

Sample Locations

Diff samples

../input/diff

Format Sample

../input/setup

../input/formatTest

Number Sample

../input/numTest

Running the Scripts - diff.py

Cd [someplace]/revdoi-data-quality-master/scripts

python diff.py

Use the buttons to select files, then click "run diff" to compare the files

∅ tk	122		×
Select Old File C:/Users/change/Documents/GitHub/Revdoi-Data-Quality/input/diff/mont	hly_productio	n_06-2019	9.xlsx
Select new File			
Run DIFF Old File Set			

Running the Scripts - formatcheck.py

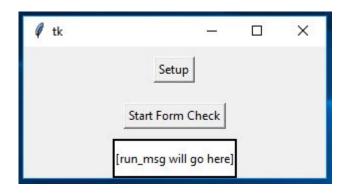
Python formatcheck.py

Run setup if a JSON file has not already been not created for a specific data type

• Found under Revdoi-Data-Quality/scripts/config

Start Form Check

Prints and Exports Anomalies



Running the Scripts - numberchecker.py

Can work without calling setup

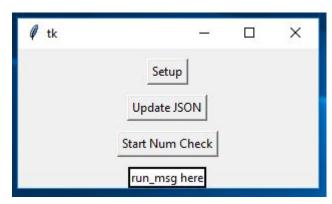
Python numberchecker.py

Setup

- Only need to be run once per data type
- Asks for input on which columns to use for grouping
- Creates a .json file with thresholds based on SD, is editable.

Start Num Check

- Prints out values surpassing certain thresholds
- Will export to output/NumChecked-filename.xlsx



In case I forgot something

Link to Data Script Wiki:

https://github.com/ONRR/Revdoi-Data-Quality/wiki

Glossary:

https://github.com/ONRR/Revdoi-Data-Quality/wiki/Glossary