# 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

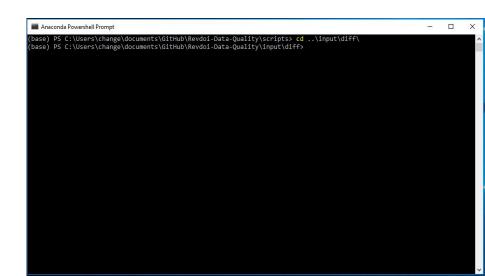
E.g. cd

documents/github/revdoi-data-quality/scri
pts

# Command Line stuff - Changing Directory (Folder)

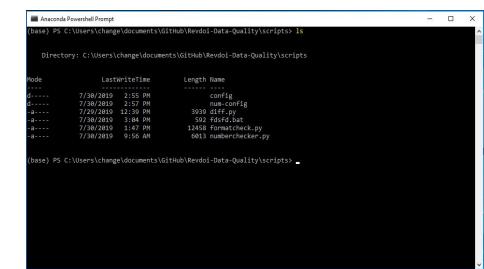
To navigate backwards, type cd..

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**

python name.py

- Might require additional input after the script name
  - Diff needs two excel files
  - Formatcheck and numcheck need one

Sample script available

# **Running the Scripts - diff.py**

python diff.py [old\_file.xlsx] [new\_file.xlsx]

```
python diff.py ../input/diff/monthly_production_06-2019.xlsx
../input/diff/monthly production 07-2019.xlsx
```

Should export new Excel, "[old] vs [new].xlsx" in output

# Running the Scripts - formatcheck.py

Run setup first (Will create json for monthly\_production)

Python formatcheck.py setup [sampleFile.xlsx]

python formatcheck.py setup ../input/setup/monthly\_production\_05-2019.xlsx

python formatcheck.py [fileToCheck.xlsx]

python formatcheck.py ../input/formatTest/monthly\_production\_test.xlsx

Should Export new Excel, "[new] filename.xlsx" in output

## Running the Scripts - numberchecker.py

Can work without calling setup

Python numberchecker.py setup [sampleFile.xlsx]

```
python numberchecker.py setup ../input/numTest/monthly_revenue_05-2019.xlsx
```

python numberchecker.py [fileToCheck.xlsx]

```
python numberchecker.py ../input/numTest/monthly revenue 05-2019.xlsx
```

Should Export new Excel, "NumChecked-fileName.xlsx" in output

# **Sample Locations**

Diff samples

../input/diff

Format Sample

../input/setup

../input/formatTest

Number Sample

../input/numTest

# 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