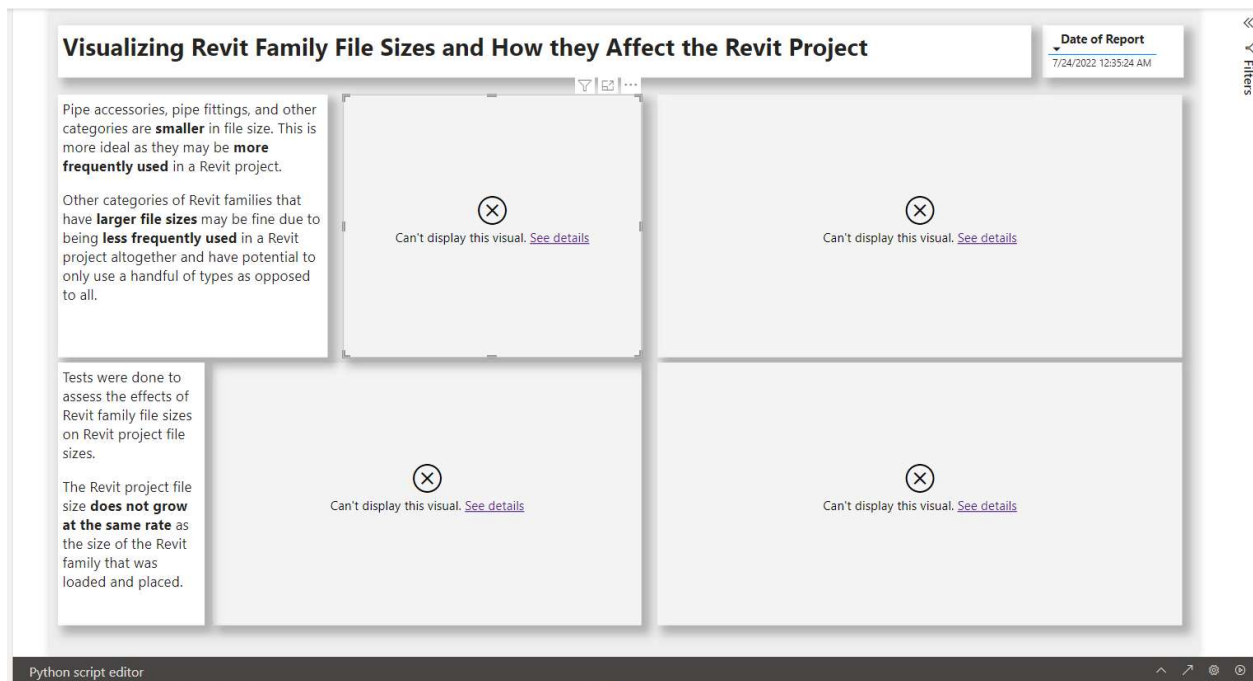


# QUICK START GUIDE

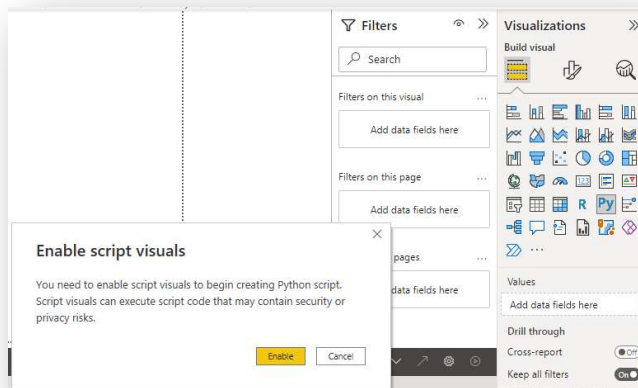
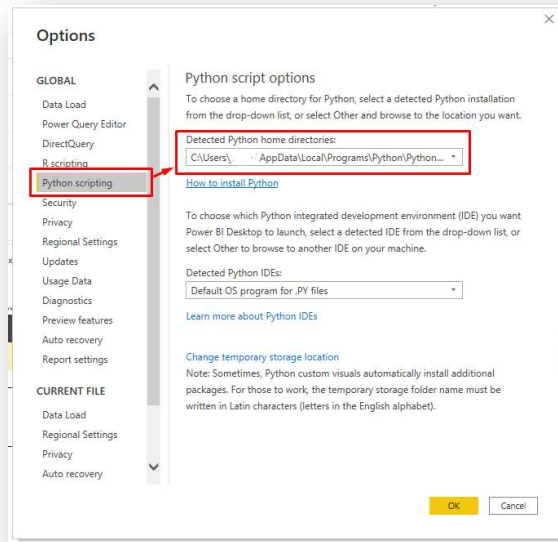
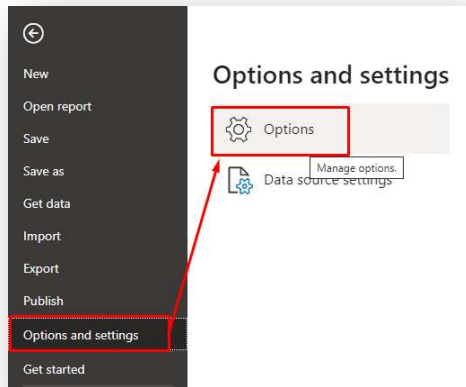
When you first open the “Template” Power BI file, you will see a bunch of gray boxes indicating that the Python visuals cannot be displayed. This is because you need to do the following:

1. Install all the Python related items outlined in this guide and requirements.txt.
2. Connect Python to Power BI in the Options and Settings.
3. “Enable Script Visuals”.
4. Change the file paths in the Python script editor of each visual to point to the datasets in folders on your computer instead.



## Microsoft Power BI (how to connect to Power BI and what is supported):

- <https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-visuals>
- <https://docs.microsoft.com/en-us/power-bi/connect-data/service-python-packages-support>
- <https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-scripts>



## Python:

- Install Python - <https://www.python.org/>

## Python Packages:

- Install Matplotlib - <https://matplotlib.org/>
- Install Pandas - <https://pandas.pydata.org/docs/>
- Install Seaborn - <https://seaborn.pydata.org/installing.html>
- Install Numpy - <https://numpy.org/install/>

## Jupyter Notebook:

- Install Jupyter Notebook – <https://jupyter.org/install>

## Charts:

- For all charts except Alluvial (Sankey), Raincloud, and Tree map
  - See Seaborn, Pandas, Numpy, and Matplotlib documentation
  - See Jupyter Notebooks for “minimally viable code” examples
- RainCloud
  - <https://github.com/pog87/PtitPrince>
  - See Jupyter Notebooks for “minimally viable code” example
- Alluvial (and Sankey)
  - [RAWgraphs.io](http://RAWgraphs.io)
  - Synoptic Panel by OK Viz (Custom Visual in Power BI)
  - See related files for examples

## Tools:

- Flat UI Colors
  - <https://flatuicolors.com/>
- Adobe Color
  - <https://color.adobe.com/create/color-wheel>
  - <https://color.adobe.com/create/image>
  - <https://color.adobe.com/create/color-contrast-analyzer>
- Colorblindly
  - <https://chrome.google.com/webstore/detail/colorblindly/floniaahmccleocneebhnmjgdfijgg?hl=en>
- Contrast Checker
  - <https://chrome.google.com/webstore/detail/wcag-color-contrast-check/plnahcmalebfffmaghpcmpaciebdhgdf?hl=en>

## Books/further Reading (certainly non-exhaustive):

- Matplotlib for Storytellers
  - <https://leanpub.com/mplforstorytellers>
  - <https://github.com/alexanderthclark/Matplotlib-for-Storytellers>
- How Charts Lie

- [https://www.amazon.com/How-Charts-Lie-Getting-Information/dp/1324001569/ref=tmm\\_hrd\\_swatch\\_0?\\_encoding=UTF8&qid=1661019212&sr=8-1](https://www.amazon.com/How-Charts-Lie-Getting-Information/dp/1324001569/ref=tmm_hrd_swatch_0?_encoding=UTF8&qid=1661019212&sr=8-1)
- Accessibility
  - <https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness/types-color-blindness#:~:text=Red%2Dgreen%20color%20blindness,difference%20between%20red%20and%20green.>
- Data Ink Ratio
  - <https://www.holistics.io/blog/data-ink-ratio/#:~:text=hint%20of%20sophistication.-,What%20is%20The%20Data%2Dink%20Ratio%3F,relevant%20to%20the%20chart's%20message.>