

### Project 1, Black hat / White hat Visualization

1. For this assignment, you will create two visualizations of a dataset of your choice.

- A visualization engineered to obscure some truth of the data; and
- A visualization with an “honest” presentation of the same data.

All of the tools in our toolbox can be used well or poorly, and practicing using them to mislead will make us more savvy interpreters of data.

Some datasets that may lend themselves to deception:

- [Centers for Medicare and Medicaid Open Payments database](#) (pharma compensation to prescribers, dubbed by Pro publica “Dollars for Docs”)
- [Guttmacher Institute Public-Use Datasets on Abortion and Fertility by Geography and Year](#)
- [Indicators of Gender Equality from the World Bank 1960-2017](#)
- [Tidy Tuesday Data Repository](#)—multiple datasets for different weeks, going back to 2018 (can also be used with Python, all data in .csv format)
- [Washington Post’s DEA Pain Pills Database](#)

Your project submission should include:

- A figure caption for each graphic, which needs to include provenance information sufficient to identify and locate the dataset.
- A paragraph describing the techniques used to obfuscate the data.

You do not have to use any specific tools to produce the visualization (you could even draw it by hand). If you use code, please submit it with your visualization.