**Vis Data Assignment**

Pick a dataset with at least 8 attributes: **CropProcessing\_formatted.csv**

**National Longitudinal Survey of Youth 1979**

National Longitudinal Survey of Youth (1979 – 2012) is a longitudinal project that follows a sample of American youth born between 1957-64 on various life aspects from 1979 to 2012. The data set provided below is a subset of this database, focusing on variables of 4 main topics: socioeconomic status, employment, education, and marriage. Some recommended statistical analysis techniques to be applied are multiple regression, time series analysis, logistic regression, and ANOVA.

https://dasil.sites.grinnell.edu/downloadable-data/

**Tidy and enhance by merging done**

**Explore your data using charts and code.  (4 marks)**

**Youth Dataset**

**Chart, bar chart

Description automatically generated**

**Chart, line chart

Description automatically generated**

**Chart, line chart

Description automatically generated**

**Chart, line chart

Description automatically generated**

**Chart, line chart

Description automatically generated**

**Chart, bar chart

Description automatically generated**

**Chart

Description automatically generated**

**Chart, histogram

Description automatically generated**

**Chart, bar chart

Description automatically generated**

**Chart, histogram

Description automatically generated**

Chart, treemap chart

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated

**BIG IDEA:**

**To Persuade people to that there is not as large a gap for yearly income (2000s+) between male and females in the US as there was before(1979-1999). And it’s not just because of discrimination.**

1. Who is your audience?

The primary groups or individuals to whom you will be communicating.

* **Men**
* **Women**
* **Adults**
* **Young People**
* **Elderly**
* **All People**

1. If you had to narrow that down to a single person, who would it be?

* **People who still think there is huge inequality in pa between men and women.**

1. What does your audience care about?

* **If there is a pay gap between men and women.**
* **They care about if men are still getting paid a lot more than women.**

1. What action does your audience need to take?

* **Look at the data research provided.**
* **Realise that the pay gap between men and women isn’t that bad anymore and it’s getting better.**

1. **What is at stake?**

* What are the benefits if your audience acts in the way you want them to?
* **Women feeling like they are more equal**
* **Preventing the spread of misinformation on inequality.**

**What are the risks if they do not?**

* **Feel like they are inequal**
* **Feeling unwarranted resentment.**

**From the big idea:**

It should a) Articulate your point of view, b) Convey what’s at stake and c) be a complete and single sentence.

Big idea…?

**Develop your story using 3 or more charts.  Charts should be relevant, effective, correct and should portray your story.  Your charts should be understandable by readers who have not read your background research.       (12 marks)**

**\*Year, Income, Gender\***

**Density Plot**

**Chart, histogram

Description automatically generated**

**Chart, histogram

Description automatically generated**

**Overlaying Histogram**

**Chart, line chart

Description automatically generated**

**Chart, histogram

Description automatically generated**

**Diverging Bars**

**Point scatter plot**

**Chart, scatter chart

Description automatically generated**

**Chart

Description automatically generated**

**Stream Chart**

**Chart, histogram

Description automatically generated**

**Chart, line chart

Description automatically generated**

**Small Multiples**

**Chart

Description automatically generated**

**Chart

Description automatically generated**

**\*\*Do at End\*\***

**Change column names to look better**

**Visualising text**

**Make charts perfect**