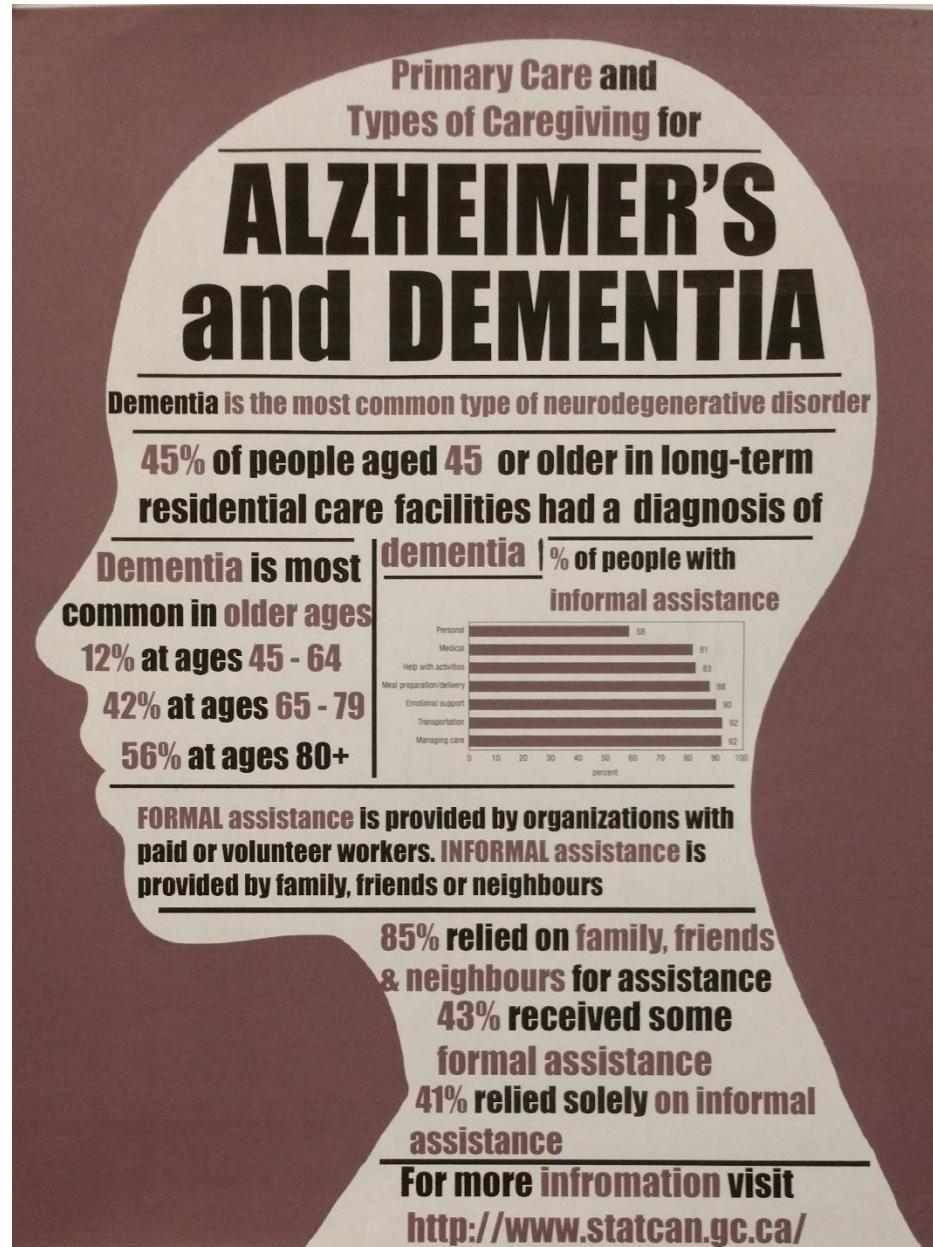
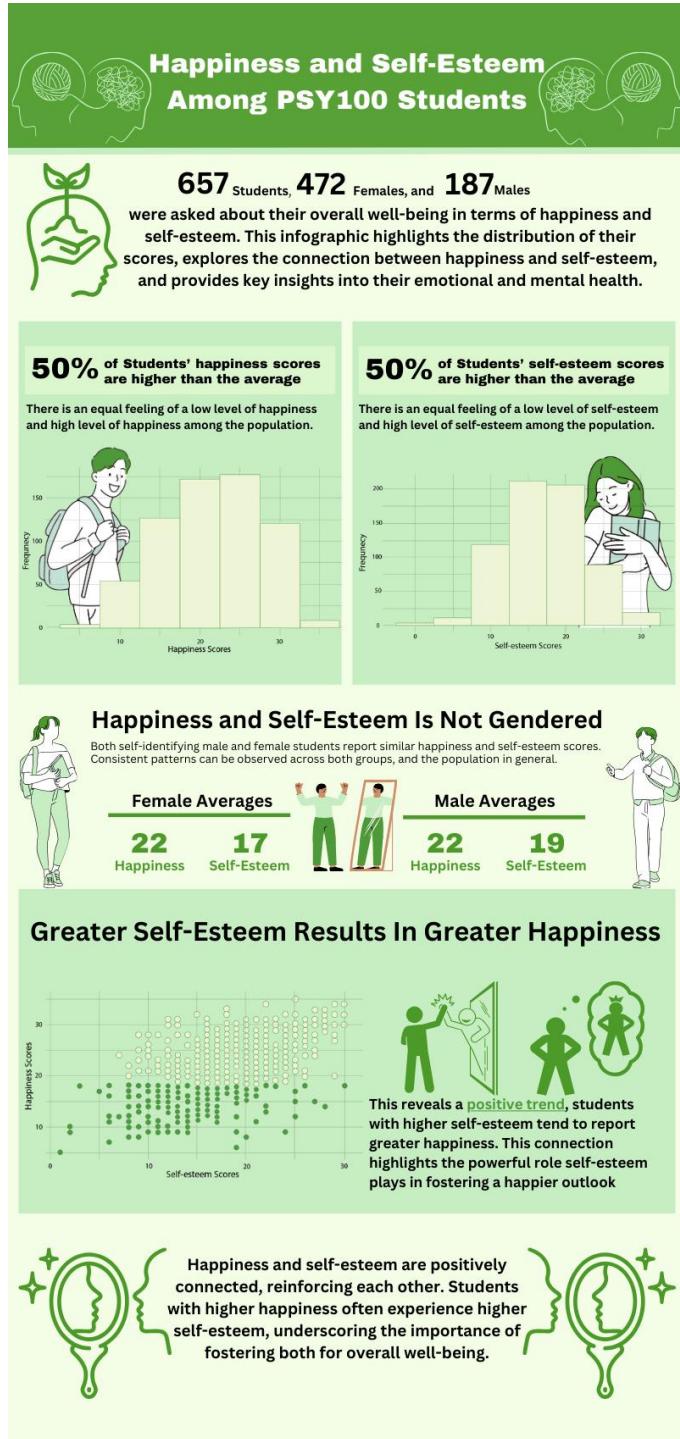
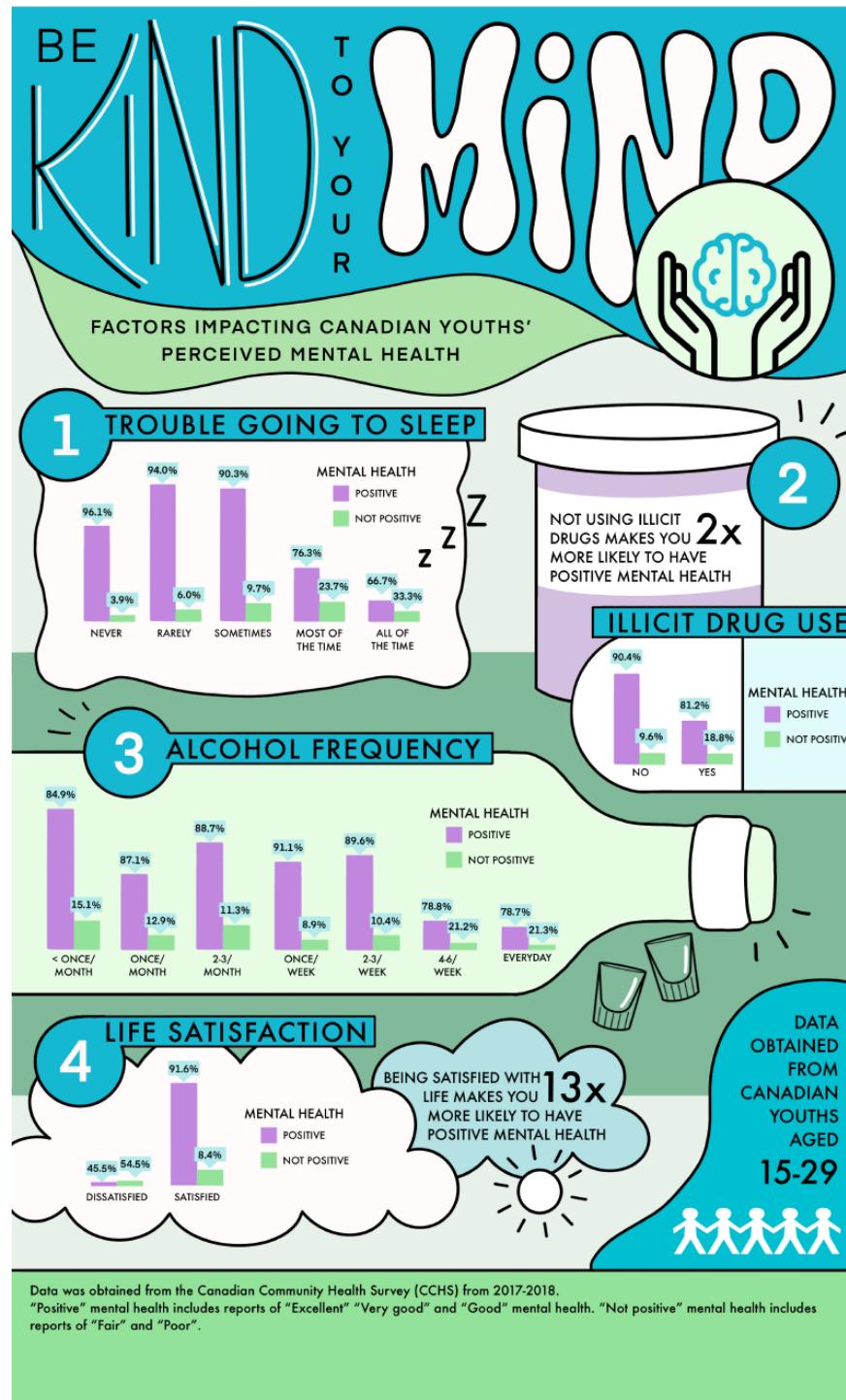


## Former Students' Examples of Infographic







# What's Influencing Youth Mental Health in Canada?

An Analysis on Alcohol & Drug Use, Life Satisfaction, & Social Activity Engagement



# Education, Income, & Health Expectancy



Disparity of health expectancy in Canada is increasing

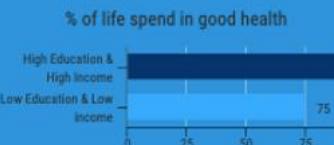
Statistics Canada has found that between 1996 and 2011 disparity in Health Expectancy, amount of years spent in good health, have increased across Education and Income levels

## Absolute Change over time

Across all levels of education or income all Health Expectancy has increased



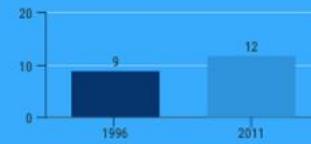
## Education within Income disparities

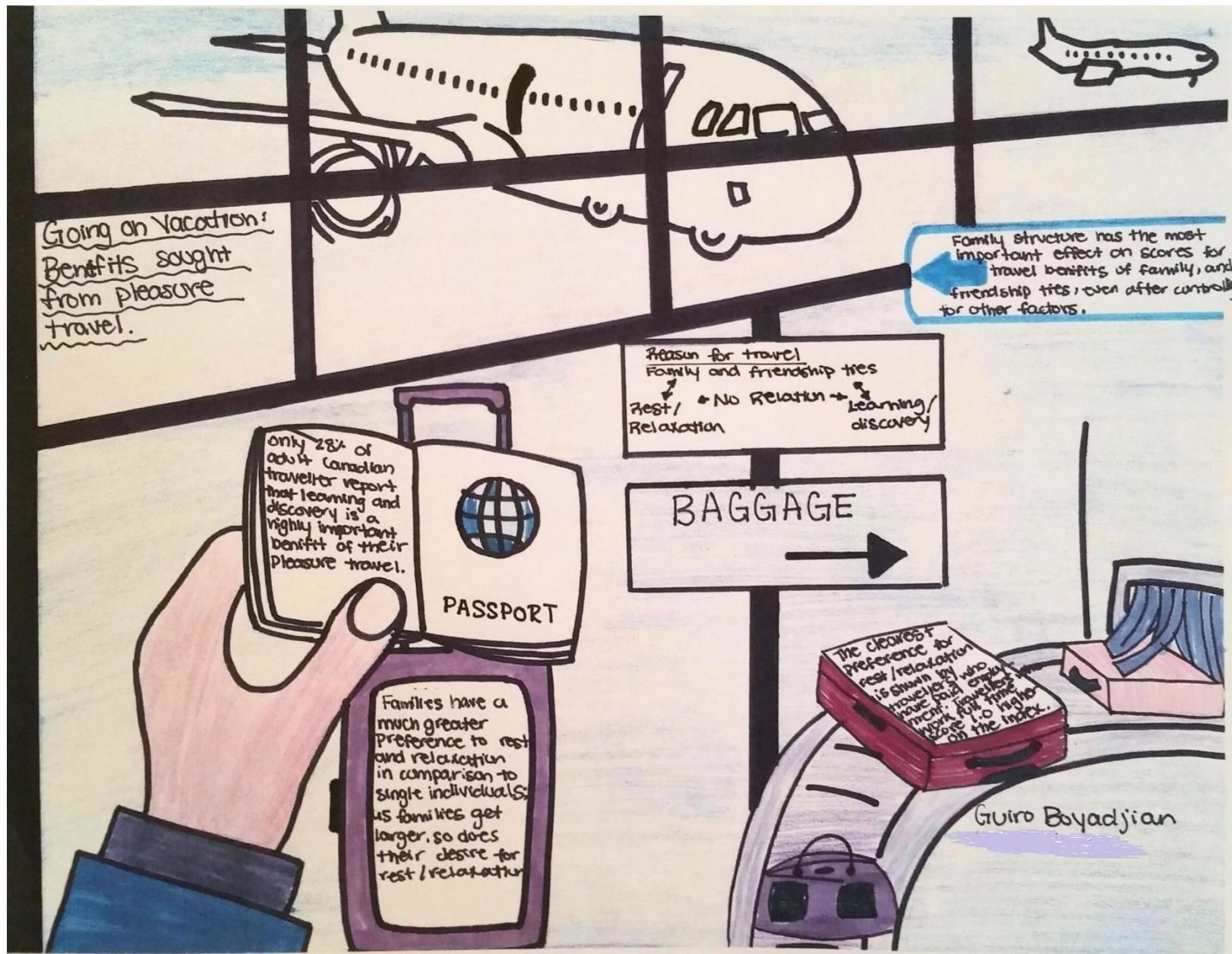


Those with the highest education and income can live up to 16% more of their life in good health when compared to the lowest in education and income

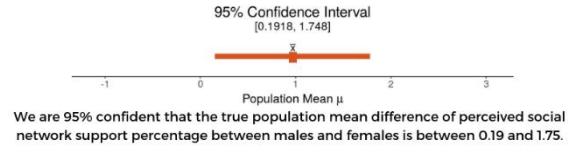
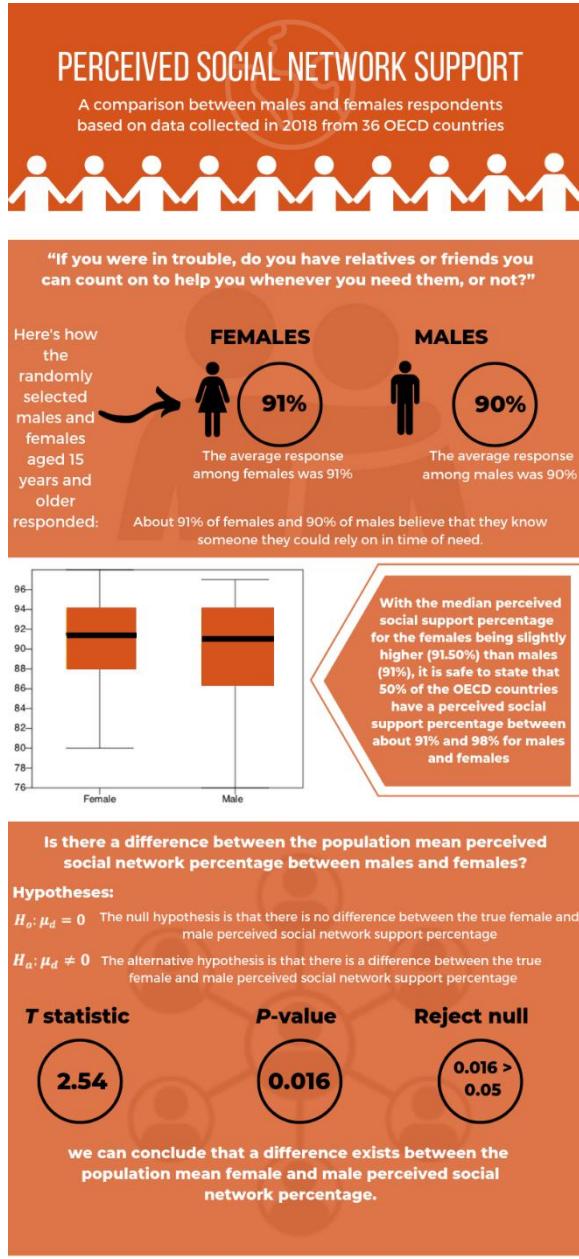
## Changes in Disparities over time

The benefit of increased healthcare quality disproportionately gone to high educated + high-income individuals. The health expectancy difference between the two groups has grown by 3 years since 1996









Source: [https://istats.shinyapps.io/inference\\_mean/](https://istats.shinyapps.io/inference_mean/)

STAB23

## SOCIAL NETWORK SUPPORT IN THE 36 OECD COUNTRIES (BASED ON 2018 DATA)

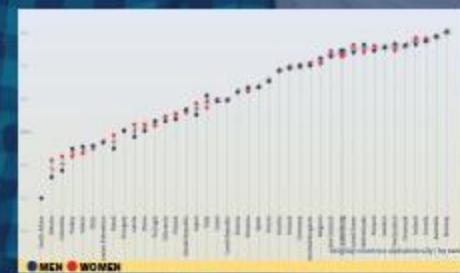
PREPARED BY KAROLINA VASEVA [1002797011]

DO YOU HAVE FRIENDS OR RELATIVES THAT YOU  
CAN RELY ON IF YOU'RE EVER IN TROUBLE?

**89%**

OF PEOPLE STATED THAT THEY  
KNOW SOMEONE THEY COULD  
RELY ON IN TIME OF NEED,  
ACROSS 36 OECD COUNTRIES.

90% OF WOMEN BELIEVE THEY  
HAVE THIS KIND OF SOCIAL  
SUPPORT IN COMPARISON TO  
88% FOR MEN.



THE OECD ANALYZED AND COLLECTED DATA FOR  
"BETTER LIFE INDEX" (BLI), WHICH WAS  
PUBLISHED IN 2019 BUT COLLECTED IN 2018  
UNDER QUANTITATIVE VARIABLE "SOCIAL  
NETWORK SUPPORT". VARIABLES OF INTEREST  
COLLECTED:

- PERCENTAGE OF PEOPLE (15 YEARS OF AGE  
AND OLDER) HAVING SOCIAL NETWORK  
SUPPORT FROM 36 OECD COUNTRIES IN 2018

- GENDER OF THE RESPONDENTS IDENTIFIED AS  
MALE, FEMALE

SOME OF THE ISSUES COUNTRIES AND SOCIETY CAN FACE  
WITH LOW SOCIAL NETWORK SUPPORT:

- LIMITED ECONOMIC OPPORTUNITIES
- A LACK OF CONTACT WITH OTHERS
- FEELINGS OF ISOLATION → FAMILY BREAKDOWN, THE  
LOSS OF A JOB, ILLNESS OR FINANCIAL DIFFICULTIES



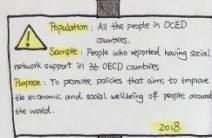
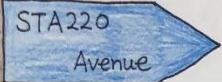
OFFER HELP  
FOR THOSE  
YOU CARE  
ABOUT

CHECK OUT [WWW.OECDBETTERLIFEINDEX.ORG](http://WWW.OECDBETTERLIFEINDEX.ORG) FOR MORE INFORMATION

# City of Statistics

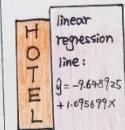
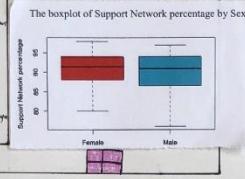
Created by - Rui Xiang

- Yanzhen Liu

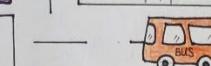
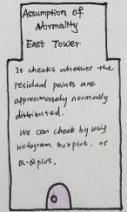
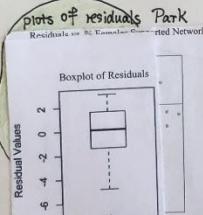
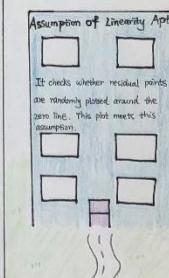


- Both the distribution of males and females percentage of perceived social network support are skewed to the left.
- The two distributions have similar centers:
  - the median % of female social network support is 91.6%; the median % of male social network support is 91.0%.
  - the mean % of female social network support is 91.67%; the mean % of male social network support is 89.67%.
  - The two distributions have different spreads.
  - The distribution of female % of social network support ranges from 78.3% to 97.1%, with IQR of 7.25%.

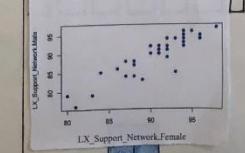
## Side by Side Boxplot School



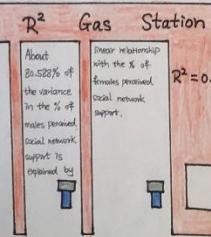
The line tells us that the average of the % of males provided social network support we would expect for a given % of females provided social network support.



## Scatterplot Bank



There appears to be a strong positive linear association between the % of males perceived social network support and the % of females perceived social network support. This means higher % of females perceived social network support are associated with higher the % of males. As the % of females perceived social network support increases, the % of males perceived social network support tends to increase. There is no outlier.



# Teen Moms and Poverty

By: Selvin Leenus  
(1006617859)

Poverty has been seen as both a cause and consequence of teen pregnancy. In the majority of the states in the United States, teen mom rates have been recorded to be almost equal to the state's poverty rate.

## Important Statistics

Poverty in America has a mean of 12.85 and standard deviation of 3.06 while the prevalence of teen moms has a mean of 10.36 and standard deviation of 2.52.

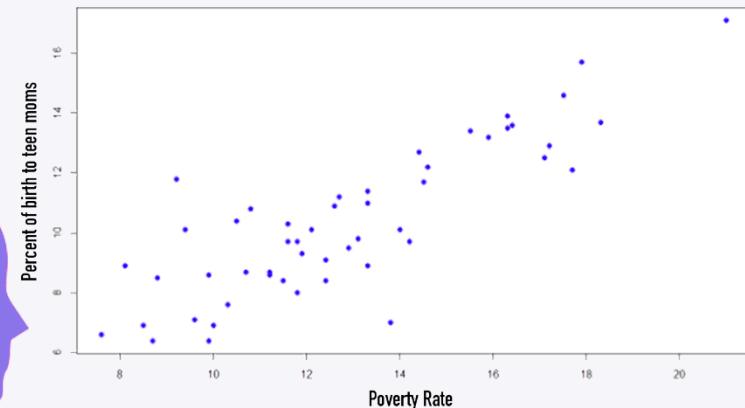
The three states with the highest poverty rates in increasing order are New Mexico, Mississippi, and Louisiana. They also have teen mom rates of 15.7, 13.7, and 17.1 respectively.

The minimum poverty rate is 7.6 at New Hampshire and the minimum teen mom rate is 6.4 at both Massachusetts and New Jersey.



## Relating Teen Moms to Poverty

When looking at the incidence of teen moms and poverty in all of America, there is a correlation of 0.8454. This implies a strong positive linear correlation between the two variables, and that as poverty rates increase, the rate of teen moms also increases.



## Least Squares Prediction Equation

An equation can be used to predict the teen mom rate based on the poverty rate. The y-intercept for this equation would be 1.39 and the slope of the line would be 0.70. The equation would thus be:

$$\text{Teen mom rate} = 1.39 + 0.70(\text{Poverty})$$



## SOCIAL NETWORK SUPPORT

**"If you were in trouble, do you have relatives or friends you can count on to help you whenever you need them, or not?"**

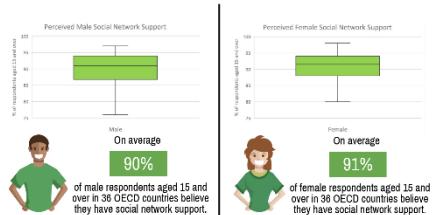
The OECD Better Life Index aims to compare well-being across 36 countries using internationally comparable indicators of life satisfaction.



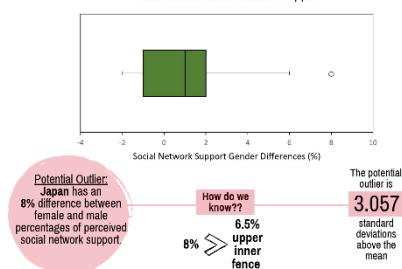
36  
OECD countries

The purpose of this study was to observe the social network support differences between males and females 15 years and older in 36 OECD countries.

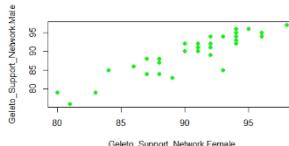
Using microdata collected from the **Gallup World Poll**, perceived social network support is based on the proportion of male and females respondents that have relatives or friends that they can count on to help them in times of need and trouble.



Differences in Social Network Support



As the percentages of female's perceived social network support increases, the percentages of male's perceived social network tends to increase.

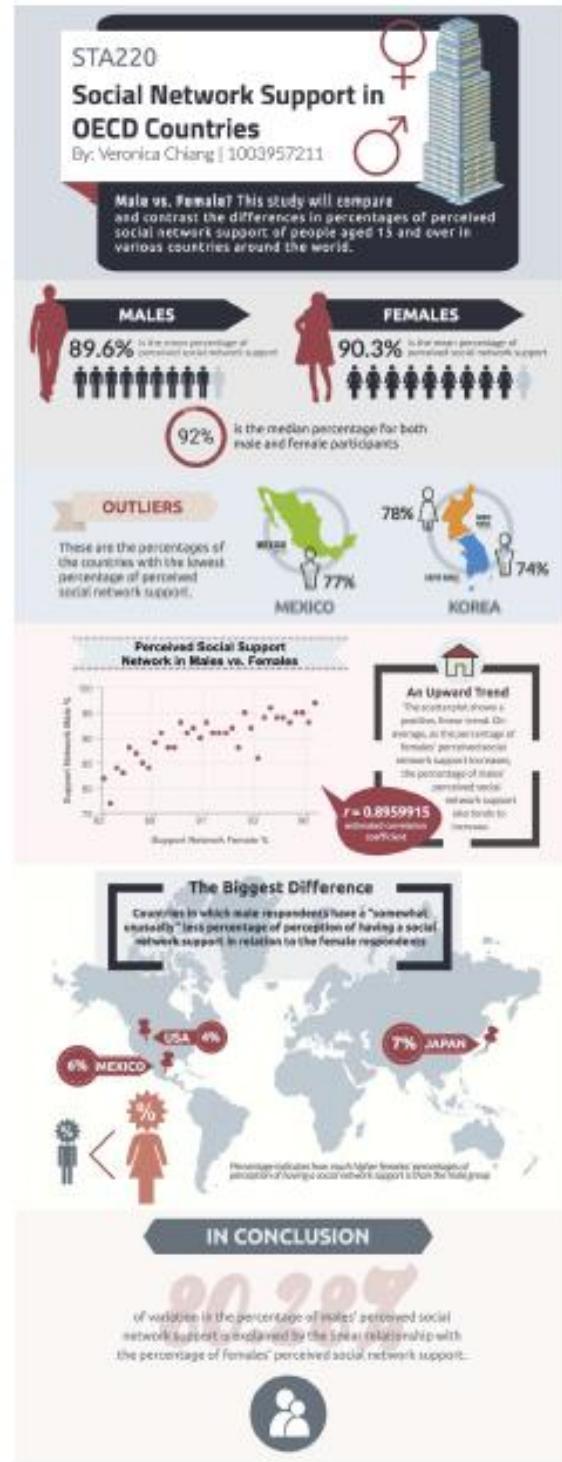


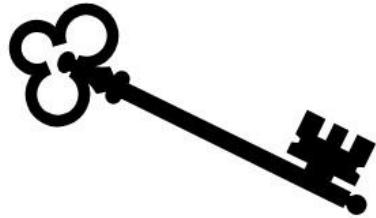
$$\hat{y} = -9.648925 + 1.095699x$$

The regression line tells us the average % of males perceived social network support at a given % of females perceived social network support

of the variation in % of males who have network support is explained by the variation of the % of females who have network support

$r = 0.8977098$   
indicates a strong positive straight-line correlation





## UNLOCKING KEY PREDICTORS OF POSITIVE PERCEPTION OF MENTAL HEALTH AMONG YOUTH

