

# Problem Set 1

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1. I chose the country of Madagascar. There are 1200 respondents and the interviews were conducted between 2022-04-26 and 2022-05-22.
2. Respondents have a broad set of backgrounds. There were a total of 1200 respondents. People's age ranges from 18 to 88 years old, with an mean age of 38.77 and a median age of 36. There are 601 men and 599 women. 47.08% of people speak Malagasy officiel, 52.83% of people speak Malagasy avec spécificité régionale, and 0.08% of people speak another language. 99.58% of people are Black/African, 0.17% of people are White/European, and 0.25% of people are Coloured/Mixed Race.

Table 1: Descriptive Stats

Variable	Value	Percent
Gender	Men	50.08
Gender	Women	49.92
Race	Black/African	99.58
Race	White/European	0.17
Race	Coloured/Mixed Race	0.25
Language	Malagasy officiel	47.08
Language	Malagasy avec spécificité régionale	52.83
Language	Other	0.08

3.

The economic and political influence of China in Madagascar is most often seen as “Somewhat positive”. The numbers show that 12.17% of people found it to be very negative, 20.67% somewhat negative, 11.5% neither positive nor negative, 29.08% somewhat positive, and 5.17% very positive.

Table 2: Political and Economic Influence: China

Influence	Number	Percent
Very negative	146	12.17
Somewhat negative	248	20.67
Neither positive nor negative	138	11.50
Somewhat positive	349	29.08
Very positive	62	5.17
Refused	1	0.08
Don't know	256	21.33

4.

The economic and political influence of China in Madagascar is most often seen as “Don’t know”. The numbers show that 3.83% of people found it to be very negative, 8.17% somewhat negative, 12% neither positive nor negative, 30.75% somewhat positive, and 6.08% very positive.

Table 3: Political and Economic Influence: United States

Influence	Number	Percent
Very negative	46	3.83
Somewhat negative	98	8.17
Neither positive nor negative	144	12.00
Somewhat positive	369	30.75
Very positive	73	6.08
Refused	3	0.25
Don’t know	467	38.92

5. The t-test below is equal to -11.387. With 5% significance for a two-tailed t-test, I reject the null ( $|t| = 11.387 > 1.96$ ). People view the economic and political influence of China significantly more negatively than the economic and political influence of the United States.

```
##
## Paired t-test
##
## data:  madagascar$Q78A and madagascar$Q78B
## t = -11.387, df = 721, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.6203086 -0.4378631
## sample estimates:
## mean of the differences
##                -0.5290859
```