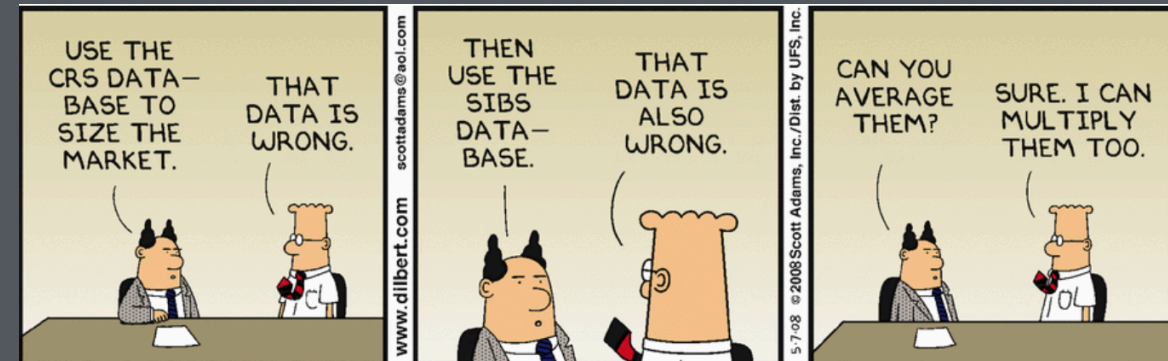


Data Analysis Customers' Orders & Discounts



The Data



- SQL data about
 - Employees
 - Customers
 - Products
 - Territories
 - Orders
 - Suppliers
- Good data for our analysis
- Reliable results & recommendations

Strategy

Statistical Hypothesis Tests

- Asking data questions regarding discounting structure results
- Making sure the data responses are
 1. Statistically significant or very reliable
 2. Accurate answers

Hypothesis Testing Questions

Q2 (a): Do discounts effect quantity products ordered?

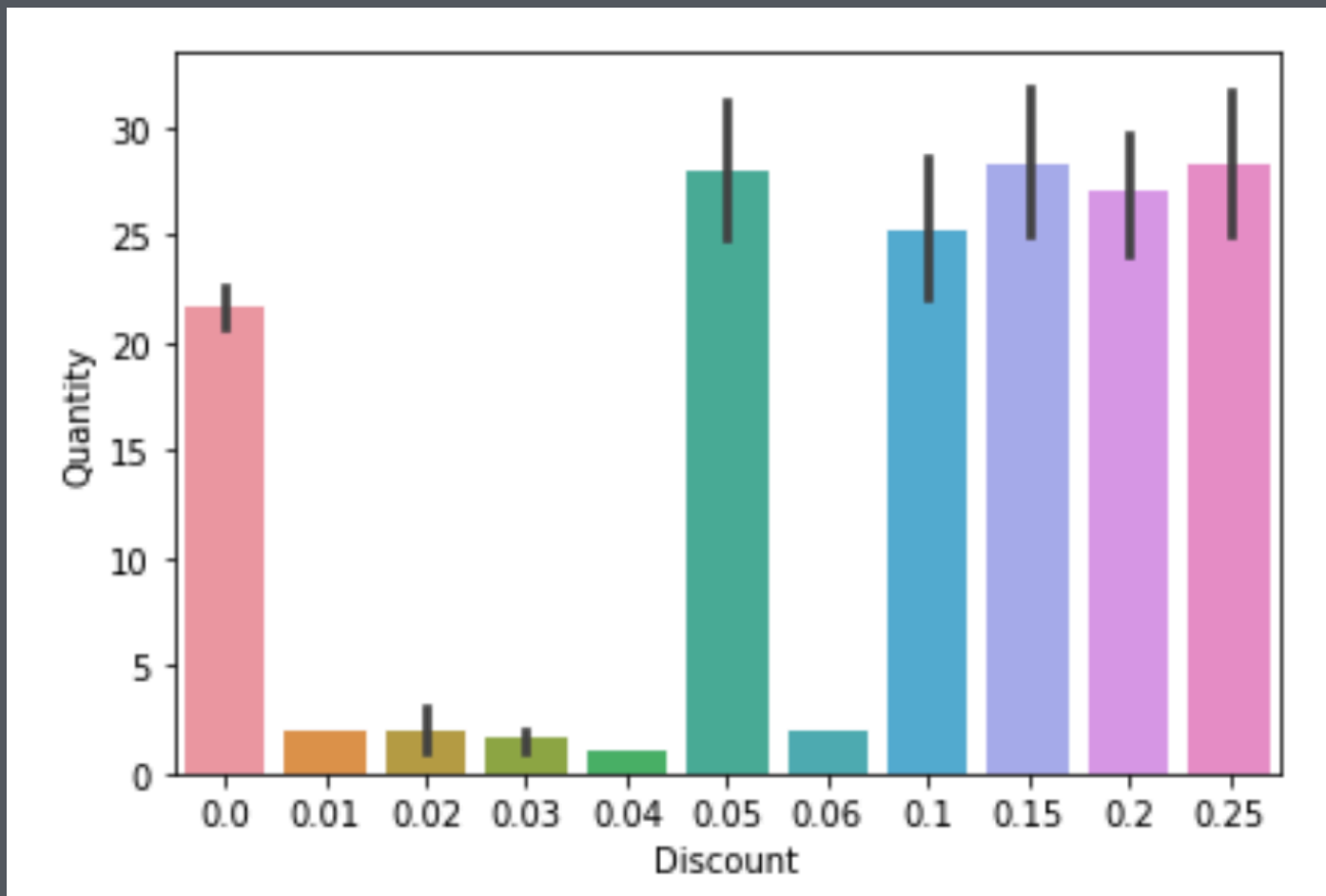
Yes! Discounts have a statistically significant effect of the quantity of products ordered.



Hypothesis Testing Questions

Q1 (b): What's the best level of discount?

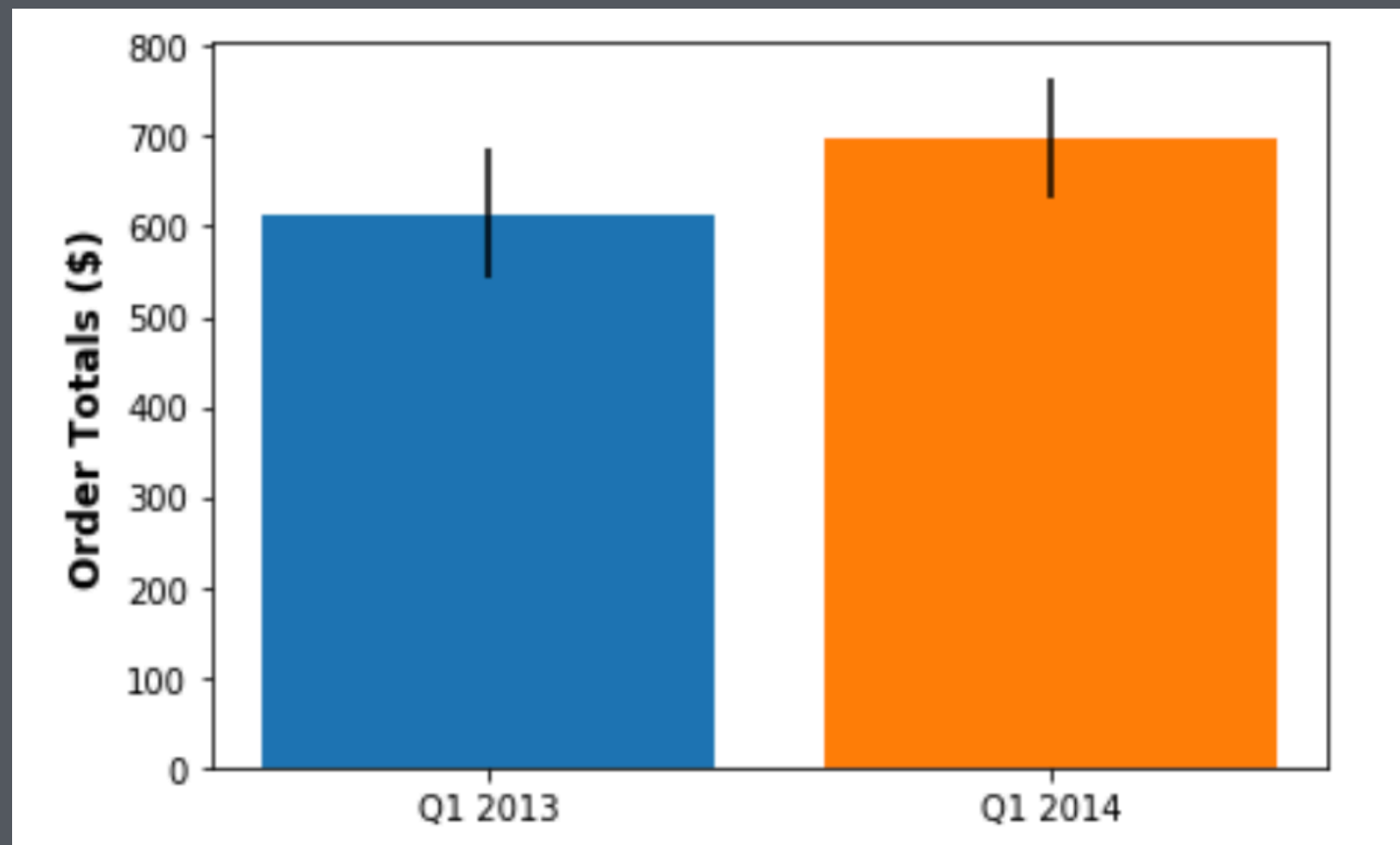
- Best discount: 5%
- Do not exceed: 15%



Hypothesis Testing Questions

Q2: Did YOY Q1 orders increase?

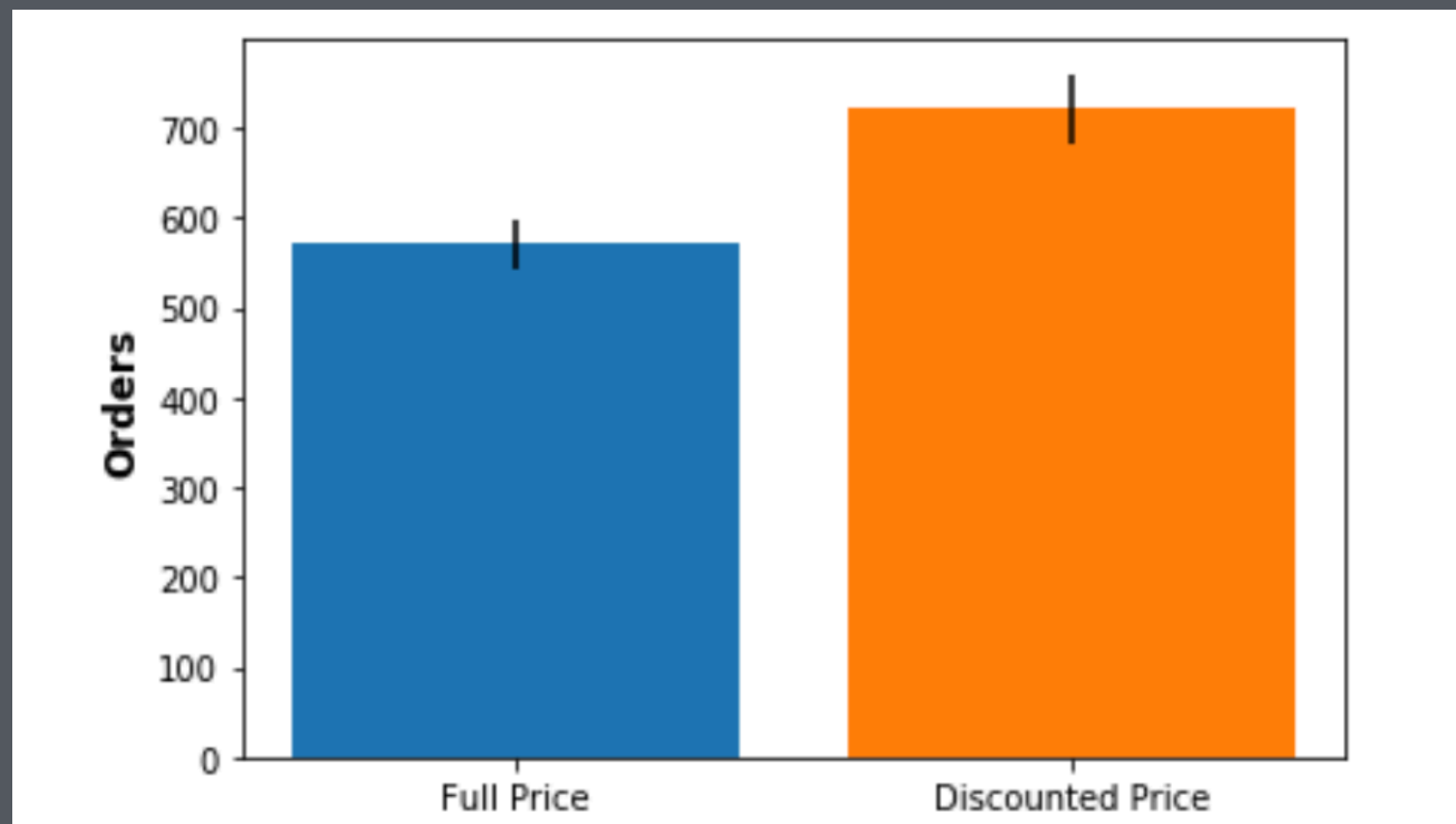
Yes! Great work



Hypothesis Testing Questions

Q3: Are order totals greater with discounts?

Yes! Have larger orders with discounts.

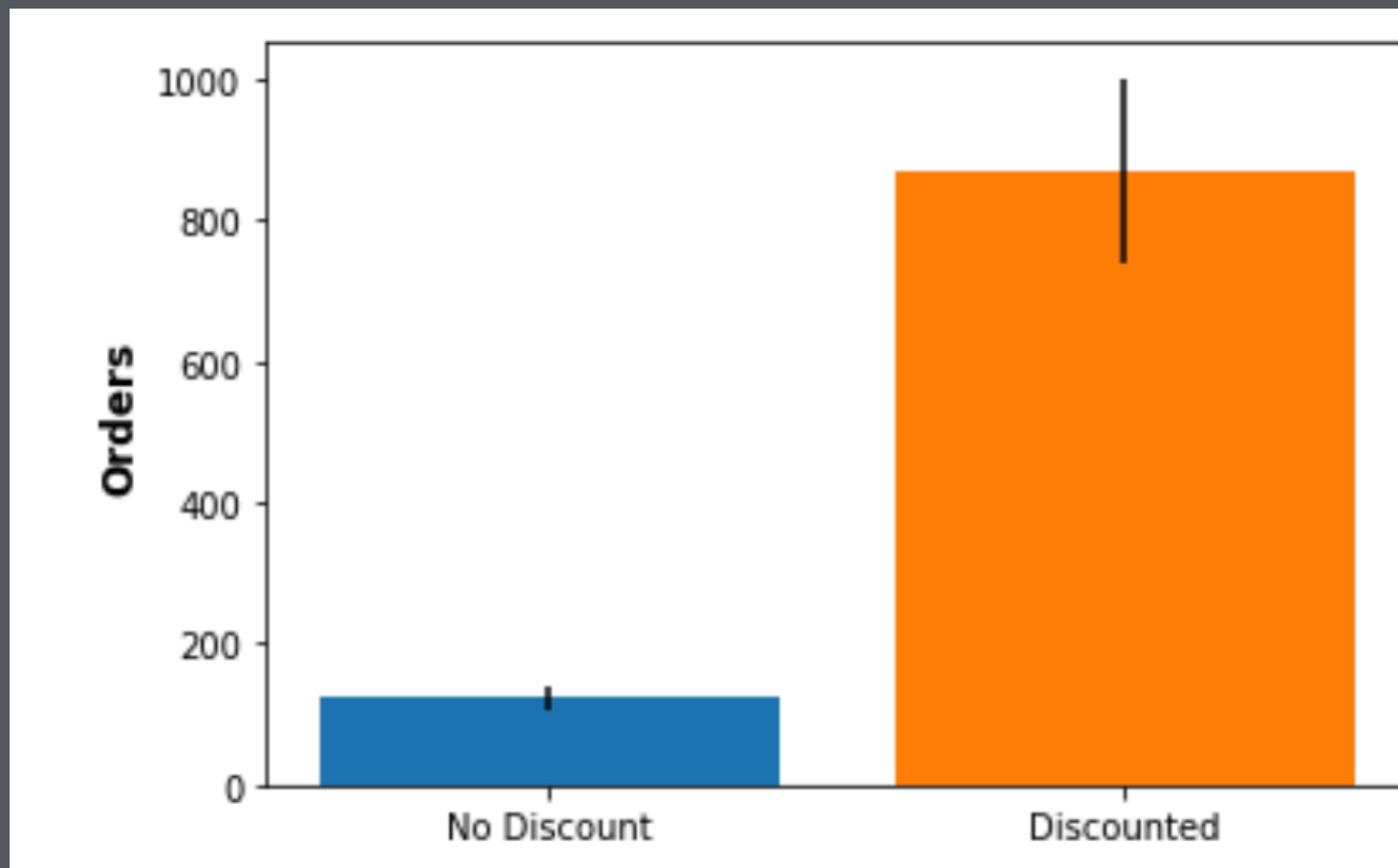


Hypothesis Testing Questions

Q4: Customers without discounts buy less?

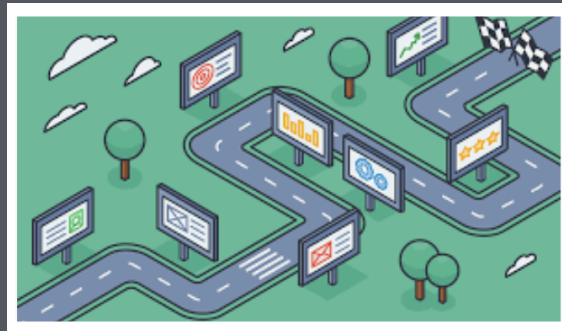
(asking if you clients are price sensitive or not)

Yes! Customers buy more with discounts. A lot more



Recommendations

- “Trained Customers”
 - Is it price capitulation or discounts to drive customer decisions?
 - 5% discount is most effective. No need to exceed 15%.
- Discounts drive product volume and order size.
- Discounts are working well.



Continue
plan & deploy
strategies

- If sales exceeding YOY goals, then “stay the course”



Future Work



- “Dig” into multiple data sets
- Software or data dev work that can predict customers behaviors
- Data analysis to predict data trends for larger customer orders

Thanks!

Hypothesis Testing Questions & Recommendations

Q2: Do discounts have effect on the quantity of a products orders?

Yes! Discounts have a statistically significant effect of the quantity of products ordered.

Recommendation: Continue to offer discounts to increase order sizes BUT limit discounts to no more than 15%.

Hypothesis Testing Questions & Recommendations

Q4: Are order values greater with discounts?

Yes!

Recommendation: