

Choose Diamonds Wisely

Visualize the price behind diamonds

Brenna Yin Ting Ye Yijun Yang



INDEX

01

Diamond Features

What makes Diamond valuable?

02

Market Analysis

How does diamonds market look like?

03

Detailed Analysis

How each variable contributes to the price?

 $\mathbf{0}$

Conclusion

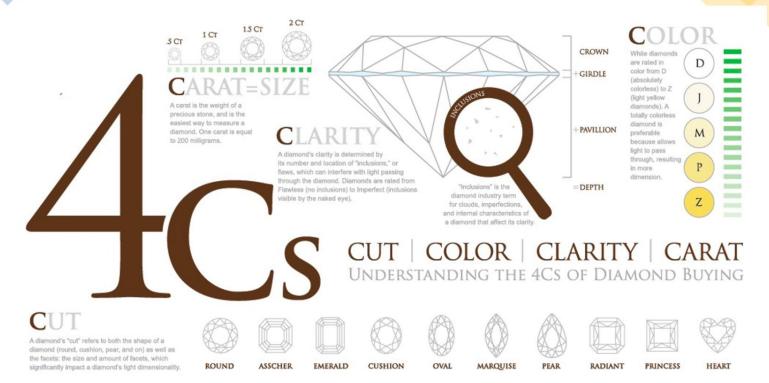
Choose your "diamond" step by step!



01

Diamond Features

Major Variables: 4Cs



2st C: CUT

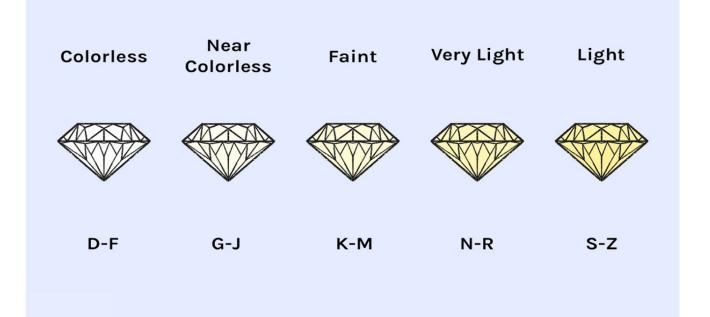




2st C: CUT



3rd C: COLOR



3rd C: COLOR



4th C: CLARITY

DIAMOND CLARITY CHART



SI₂ Clarity



SI₁ Clarity



VS₂ Clarity



VS1 Clarity



VVS2 Clarity



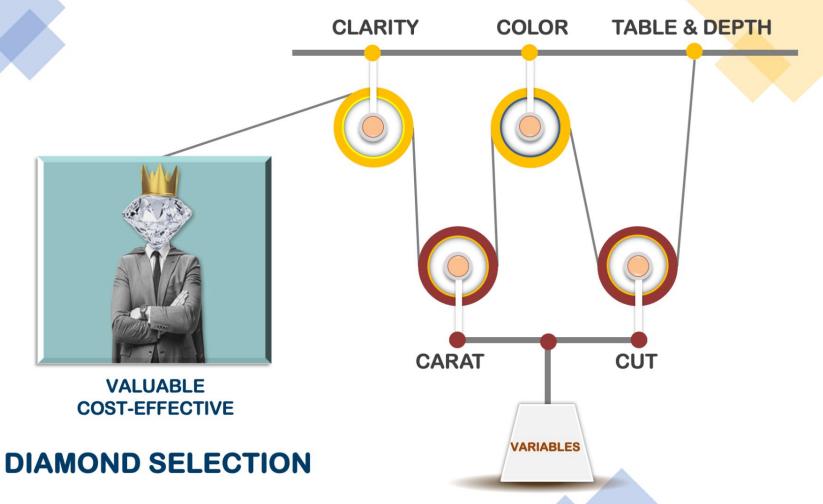
VVS1 Clarity



IF Clarity

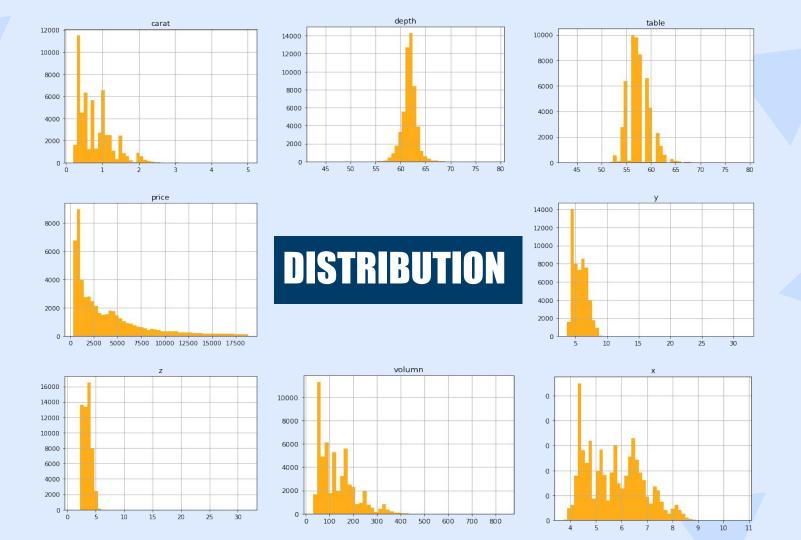


F Clarity



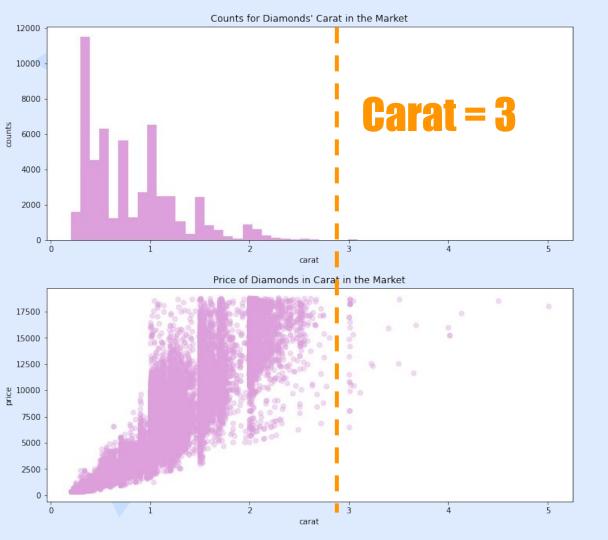
Minor Variables: DEPTH and TABLE

Depth % Range for Round Cut Diamonds				
	Ideal	Excellent	Very Good	Good
	63-59.5	63.5-59	64-58	65-57.5
Table % Range for Round Cut Diamonds				
	Ideal	Excellent	Very Good	Good
	59-54	60-53	61-52	63-52







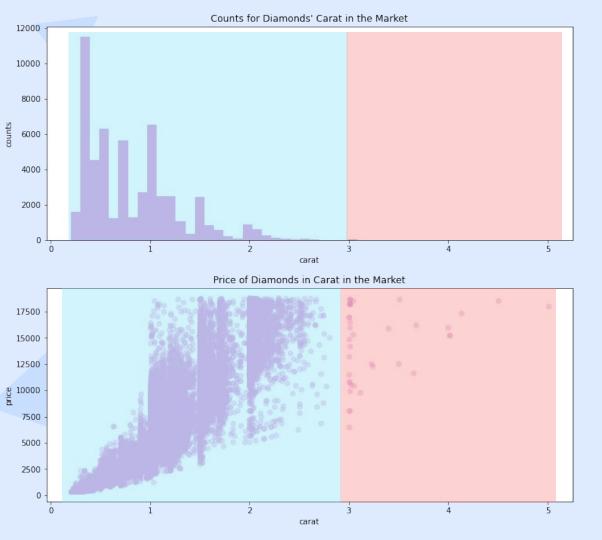


Distribution over "Carat"

Market Shares

General Products

"Price" over "Carat"



Fine Jewelry

"Luxury"; Less Choices; "First Come, First Serve"; Supply < Demand;

Threshold: 3 Carat

Jewelry

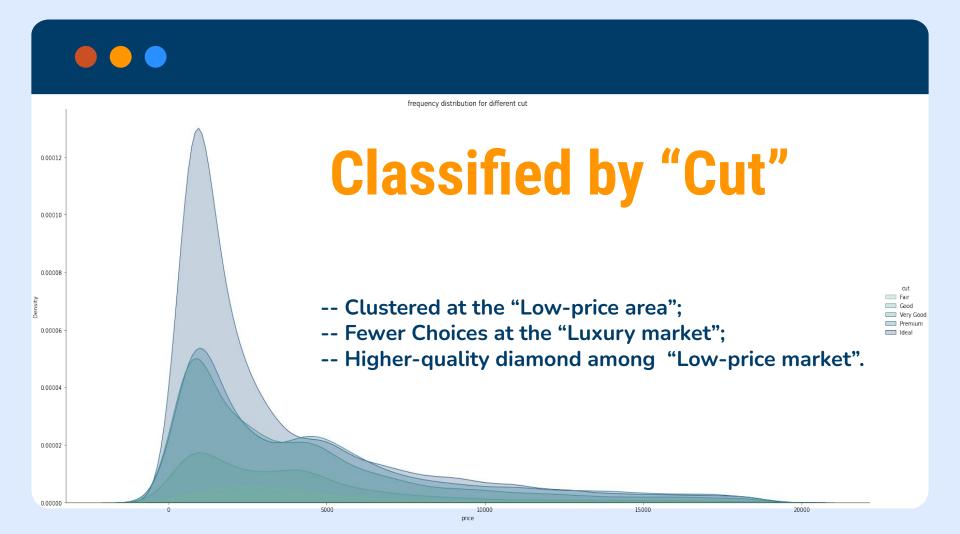
"Economic"; Plenty of Choices; Trade-offs are needed Demand > Supply;

Reminder on Color Plate

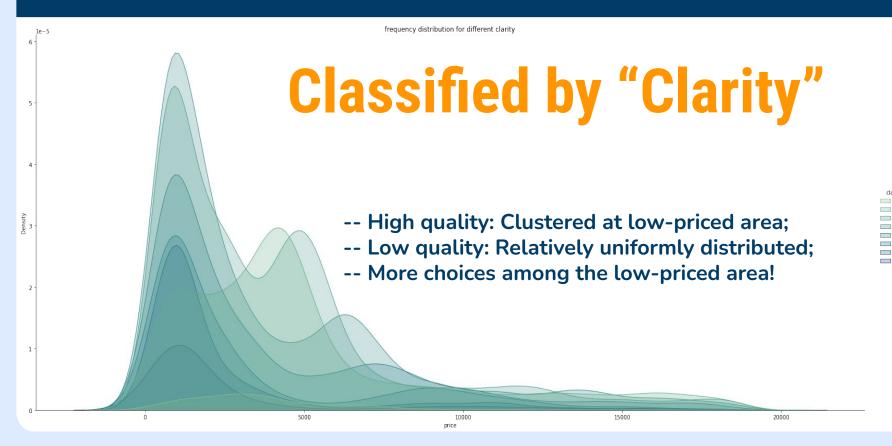
In the following visulizations

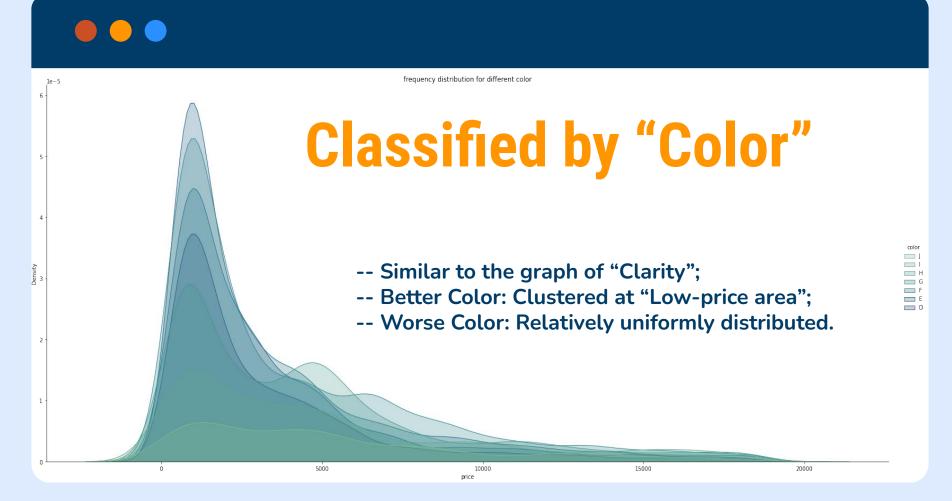
Lighter color represents higher quality for that feature

Darker color represents lower quality for that feature









Luxury or Not?

≥ 3
CARAT

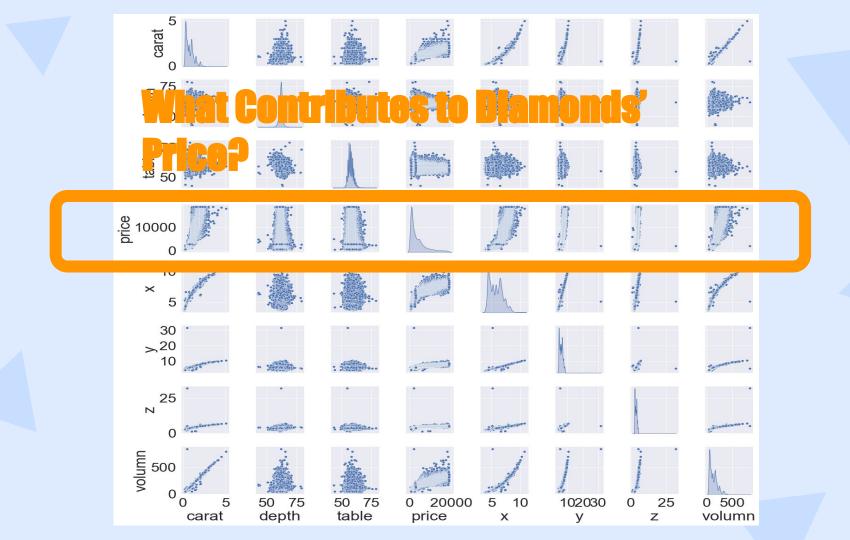
More rely on resources



< 3 CARAT

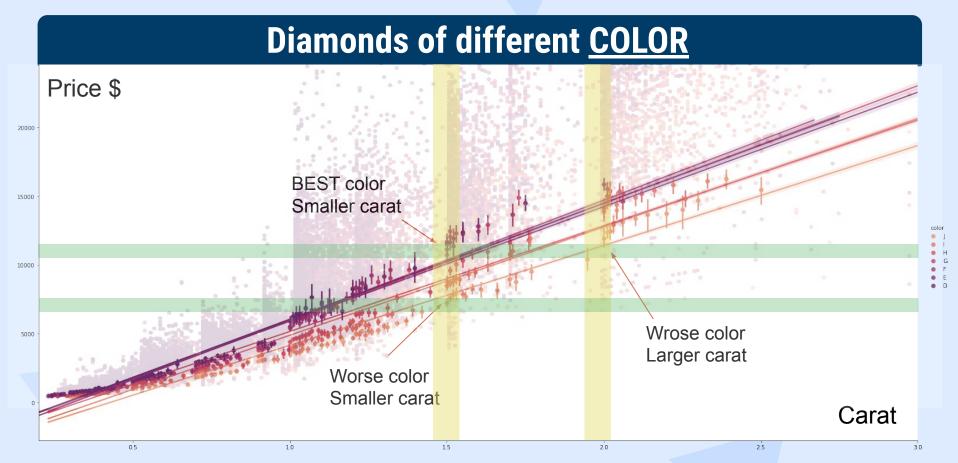
Too Many Choices!



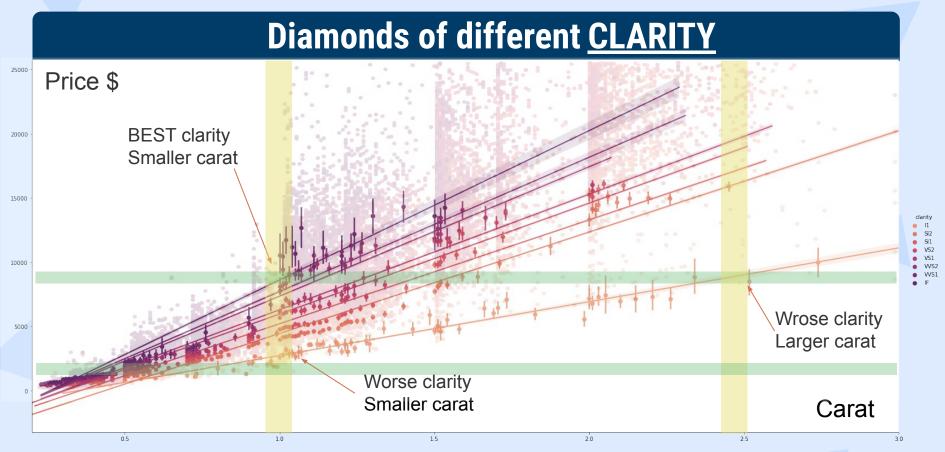




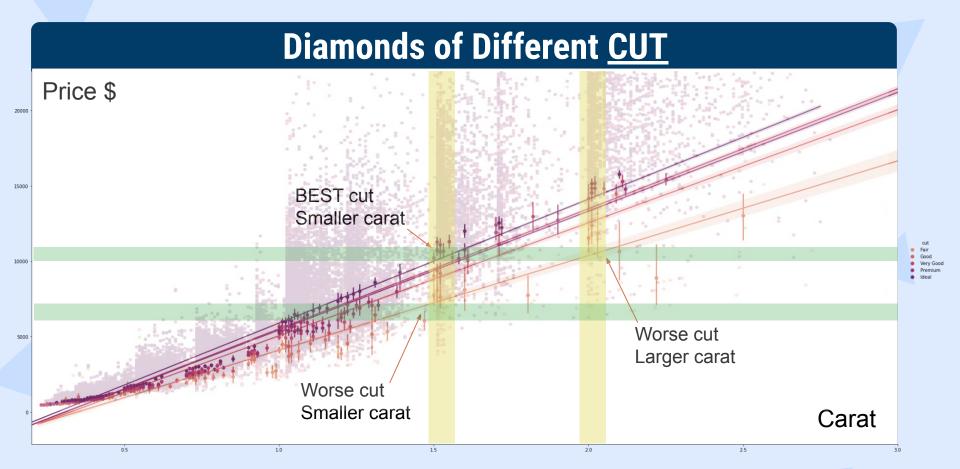
Detailed Analysis



Color lines are close to each other, so trade-off here. Spend a little bit more then you get the BEST color.



Clarity lines are away from each other, so NO trade-off here. You need to spend much more to get the better clarity.



Cut lines are also close to each other, so trade-off here. Spend a little bit more then you get the BEST cut.

Price VS. Carat

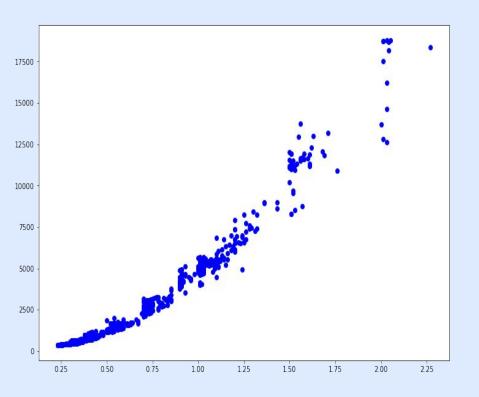


Table & Depth

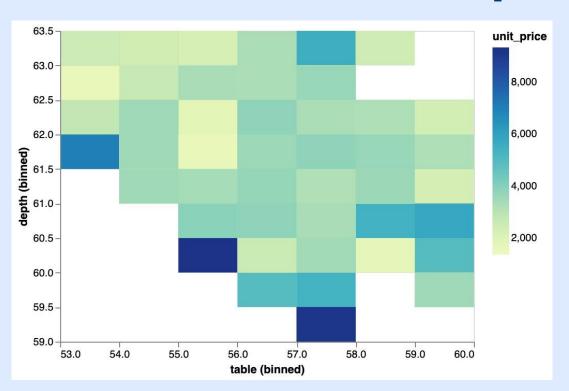
Color -- G

Clarity -- SI1
Cut -- Ideal



660 Valid data points!

Price & Table & Depth





Observations:

- -- Has a "peak";
- -- Not a Significant Element.



DECISION GUIDE

STEP 1:

Luxury? (> 3 Carat?)



START

STEP 3:

Trade-offs:
Carat > Cut > Color
> Clarity





STEP 2:

Budget? (\$0/\$5000/\$10000...)

STEP 4:

Final Check: Table & Depth





THANK YOU!

Hope you have a nice engagement in the future!

ONLY IF YOU ARE SINGLE!

Cited from:

https://publicdomainvectors.org/

https://pixabay.com/vectors/gemstone-jewel-diamond-precious-

309212/

Theme cited from: https://slidesgo.com/

