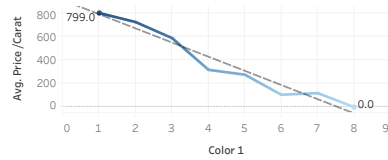
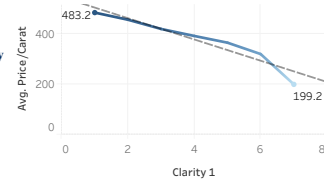


## Comprehensive Analysis of Round Shape Diamond (0.7ct - 0.89ct)

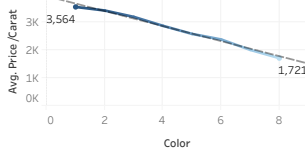
Regression Graph for Lab Grown Color Vs. Avg Price / Carat



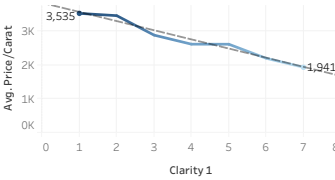
Regression Graph of Lab Grown Clarity Vs. Avg Price/Carat



Natural Diamond Regression Graph For Color Vs Avg. Price / Carat



Natural Diamond Clarity Vs. Avg. Price/Carat



Natural Diamond Vs Rapaport Report Heatmap

Color	Clarity						
	IF	VVS1	VVS2	VS1	VS2	SI1	SI2
D	70	91	87	80	85	80	76
E	91	88	79	70	93	89	81
F	75	90	80	85	88	85	88
G	78	92	77	83	95	89	83
H	85	90	82	78	91	96	82
I	91	90	85	95	95	93	94
J	88	88	80	83	101	87	112
K	88	84	96	77	86	81	89

Lab Grown Vs Natural Diamond Heatmap

Color	Clarity						
	IF	VVS1	VVS2	VS1	VS2	SI1	SI2
D	20	18	20	17	19	30	35
E	18	20	19	21	19	19	30
F	17	19	18	19	23	19	8
G	25	5	18	15	9	0	0
H	0	17	18	23	8	8	0
I	0	0	0	14	17	0	0
J	0	10	11	0	9	12	0
K	0	0	0	0	0	0	0

### Average of Price/Carat Vs Color/Clarity

**Natural Diamond Covariance**  
Color: -1622.5381  
R-square: 0.9907  
Clarity: -1262.07  
R-Square: 0.9604

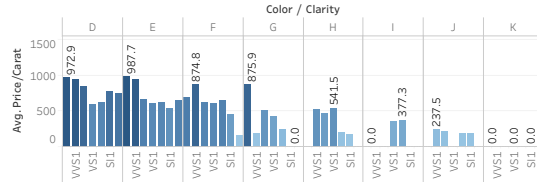
**Lab Grown Diamond Covariance**  
Color: -720.8359  
R-Square: 0.9527  
Clarity: -196.3189  
R-Square: 0.9113

### 30 Dataset Sample

**Natural Diamond**  
Sample Mean : 3991.5474  
Standard Deviation: 486.4744  
Confidence level 95% : 181.6525

**Lab Grown Diamond**  
Sample Mean : 821.7556  
Standard Deviation: 176.6615  
Confidence level 95% : 65.9665

Lab Grown Avg. Price/ Carat Vs. Color/Clarity



Natural Diamond Avg. Price/ Carat Vs. Color/Clarity

