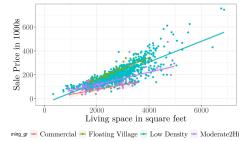


(A) Positive association of total Living Space & Sale Price & optimal line

(B) Positive association of total Living Space & Sale Price



(C) Positive association of total Living Space & Sale Price

FIGURE 1: Three Hypothesis Graphs displaying their repective association with the outcome variable

1 Data Prep, EDA, and Theory development

1.1 Varaible Selection & Explanation

For the purpose of analyzing the determinants of prices of home sales in the US, the followign variables were included in the analysis:

Table 1: Descriptive Statistics of Numeric Varaibles

Statistic	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
SalePrice	180.921	79.443	34.900	129.975	163.000	214.000	755.000
Lot Area	10,516.830	9,981.265	1,300	$7,\!553.5$	$9,\!478.5$	11,601.5	$215,\!245$
Quality	6.099	1.383	1	5	6	7	10
Condition	5.575	1.113	1	5	5	6	9
Total Living Space	$2,\!572.893$	823.598	334	2,014	2,479	$3,\!008.5$	11,752
Years Since Remodeling	22.950	20.641	-1	4	14	41	60

Notes: OLS estimates, robust standard errors in parentheses.*** p<0.01, ** p<0.05, * p<0.1

Plot 1: Causal relationship Scheme

