

**WOMEN WHO** 

Week 2 July 13, 2016

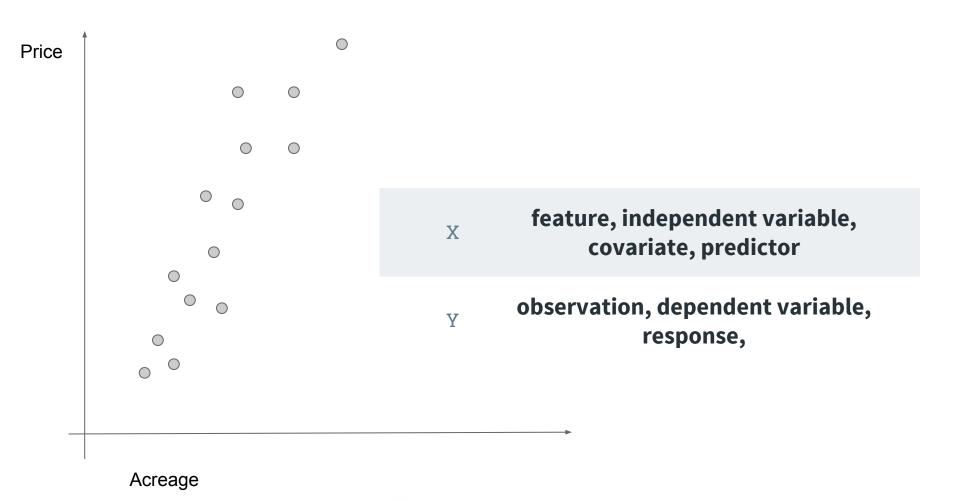
Luba Gloukhova

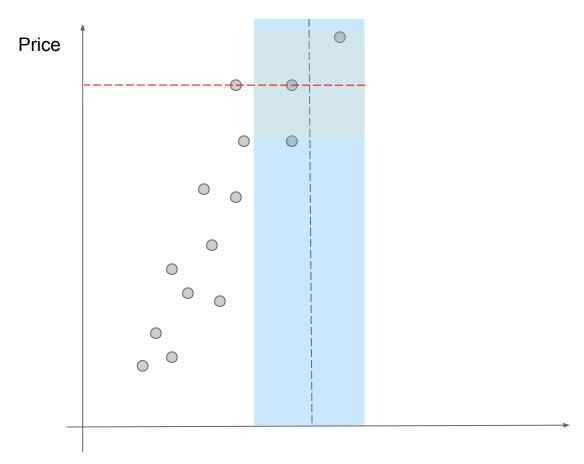
## Week 2 Outline

Regression: Predicting House Prices

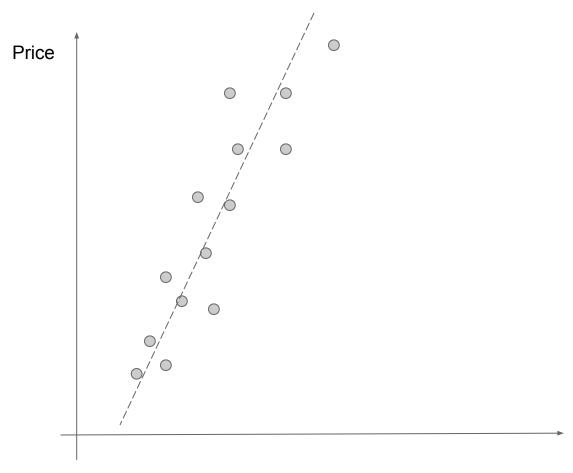
- 1. "Review"
- 2. Demo
- 3. Assignment
- 4. Quiz



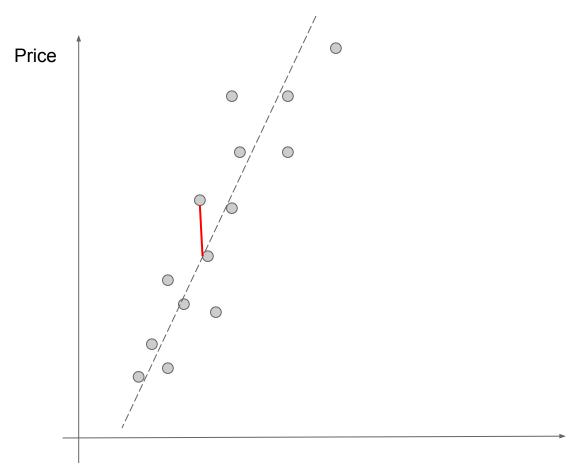




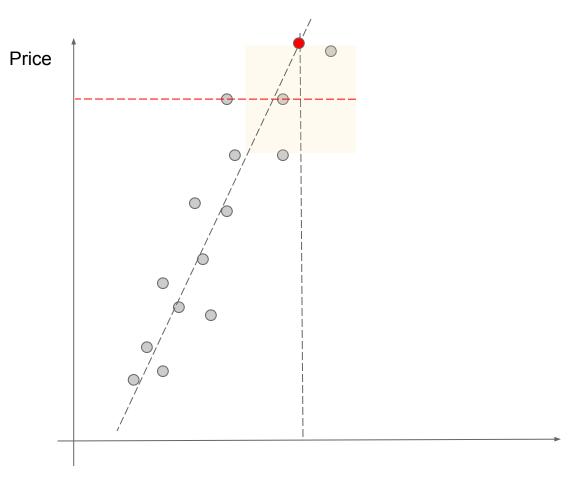
Acreage



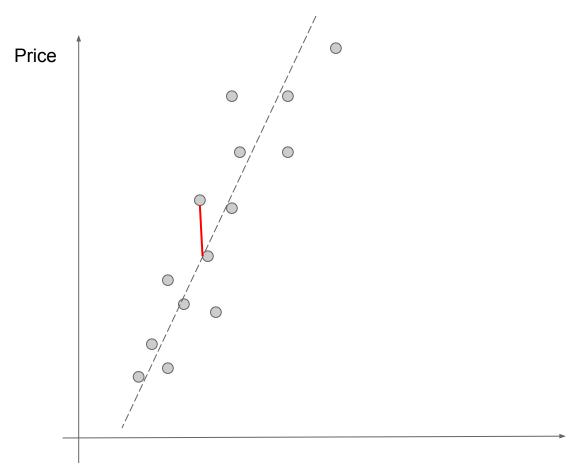
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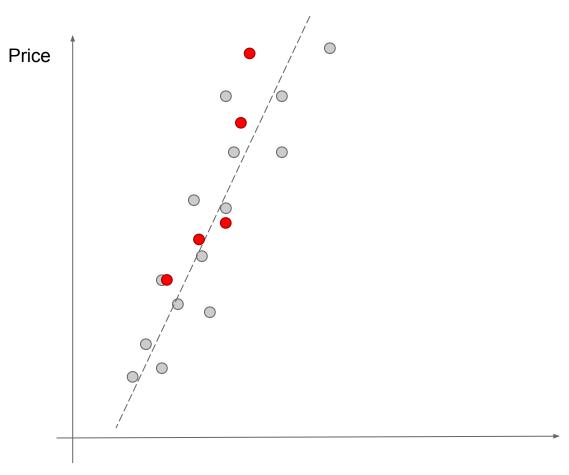
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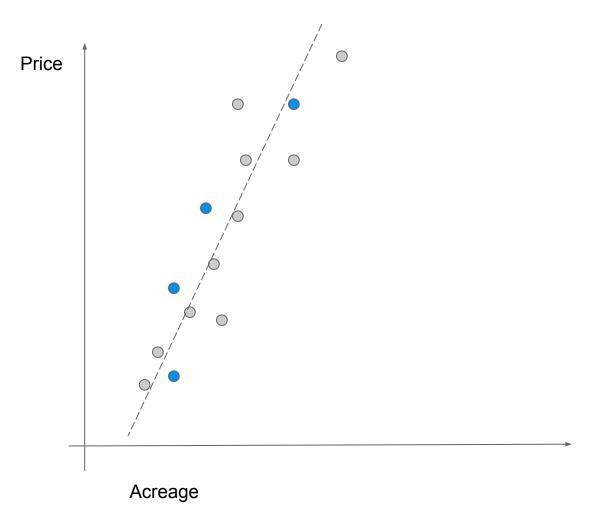
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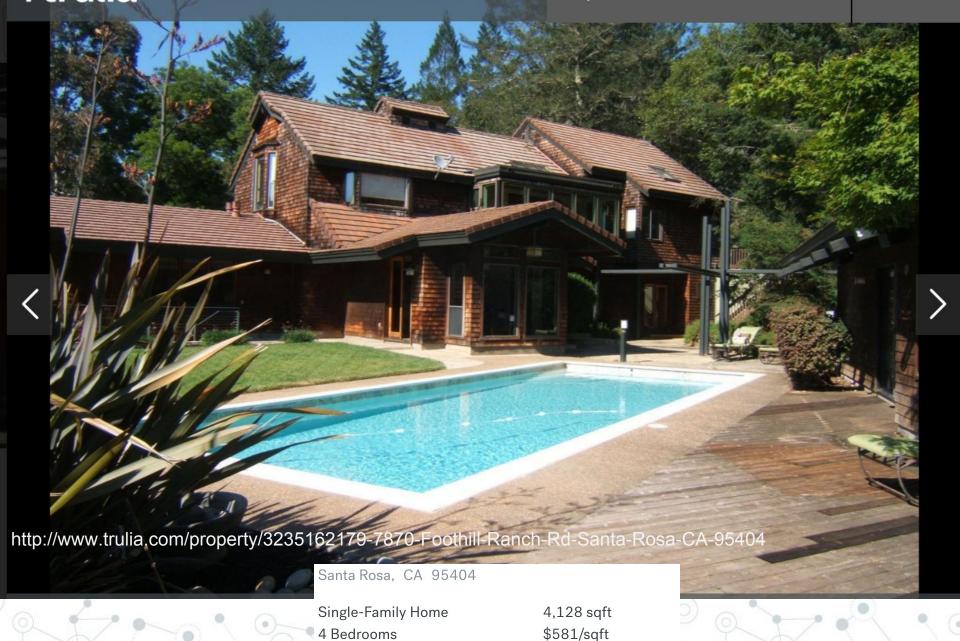


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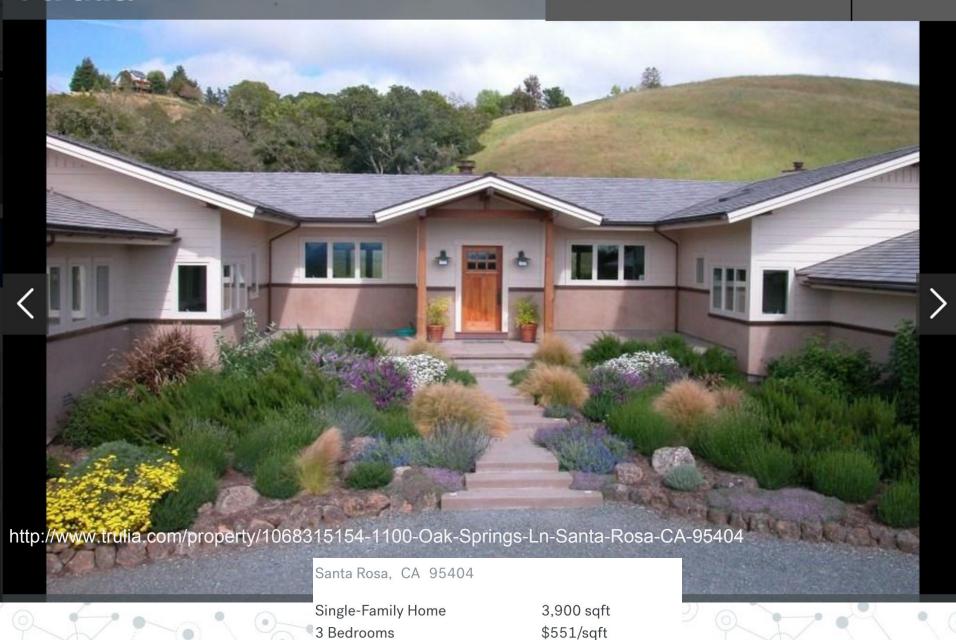
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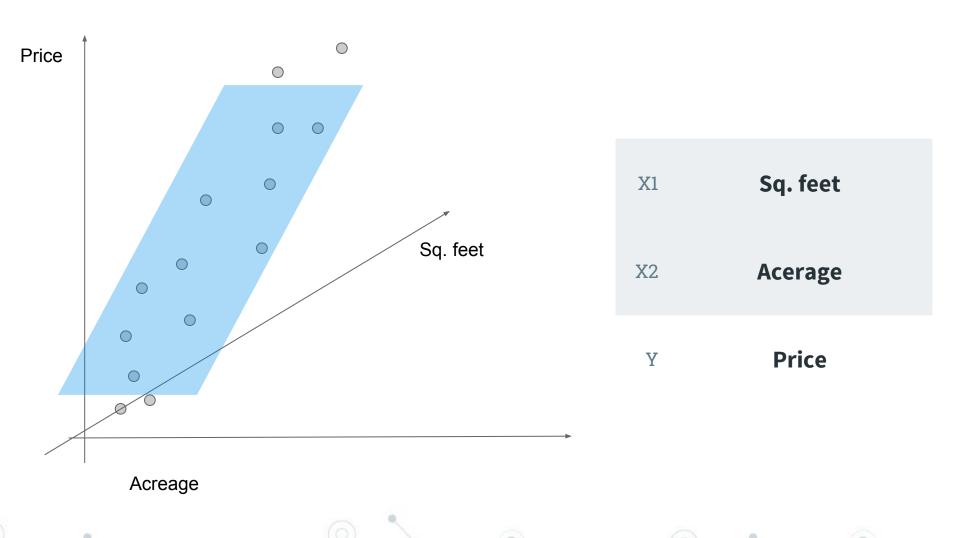
Lot size: 10.0 acres

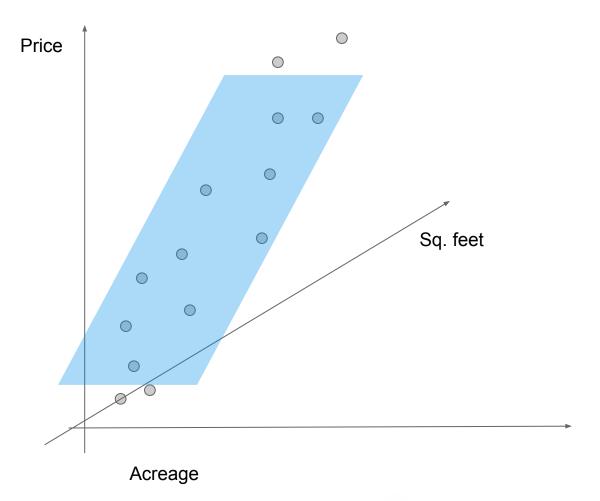
5 full Bathrooms



Lot size: 10.55 acres

3 full Bathrooms





## See Coursera version for...

- Non-linear relationships (1.4)
- Training/Test curves (2.2)
- Model complexity

## See regression course for...

- RSS minimization Gradient descent
- Variance-bias trade-off
- K-fold cross-validation
- Feature selection Lasso







- Selection and summary statistics:
   We found the zip code with the highest average house price. What is the average house price of that zip code?
- 2. Filtering data:
  What fraction of the houses have living space between 2000 sq.ft. and 4000 sq.ft.?
- 3. Building a regression model with several more features: What is the difference in RMSE between the model trained with my\_features and the one trained with advanced\_features?



Negotiation is problem solving. The goal is not to get a deal; the goal is to get a good deal. Four steps to achieving a successful negotiation: Assess, Prepare, Ask, Package. Women increase the chance of a success when a proposal is framed in terms of benefits to your counterparts, team, or organization. Three questions to prepare women