- 1. You can get better generalization with a stochastic solver [https://arxiv.org/pdf/1708.05070.pdf]
- 2. Fastest solution is often through QR factorization, rather than computing inverse or pseudo inverse. Unlike almost every other algorithm in this respect.
- 3. The reason scaling can still be important is for the optimizer even though you technically have a convex model and will get the same solution
- 4. Linear generalization w/ quality feature engineering is stronger than almost every other form of generalization for unstructured data (trees + networks overfit)
- 5. Best in terms of not overfitting the data optimal algorithm in low signal-noise ratio environments
- 6. Only major supervised algorithm with closed form solution
- 7. Every relationship between your feature and the label should be as close to linear as possible
- 8. You can use boxcox transform to automatically get close to linear
- 9. Convex Loss Surface
- 10. Lasso is not invariant to rescaling
- 11. L1 penalty leads to laplace distributed coefficients, L2 penalty leads to gaussian distributed coefficients Bayesian perspective