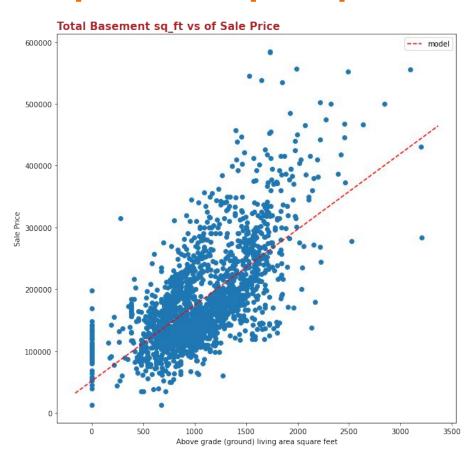
Sale Price Indicative Features

Best Indicators of House Value ——

Living Area Sq Ft Predictor of Sale Price - \$480 per Sq Ft



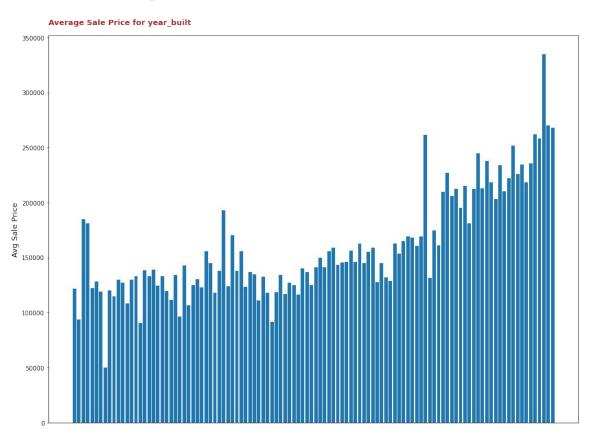
Total Basement Sq Ft - \$430 per Sq Ft



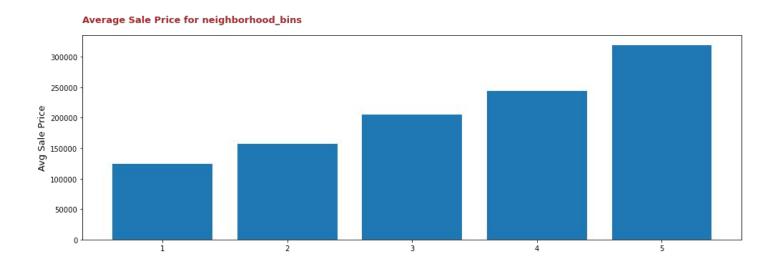
Garage Sq Ft - \$208 per Sq Ft



Average Sale Price per Year 1950 - 2010



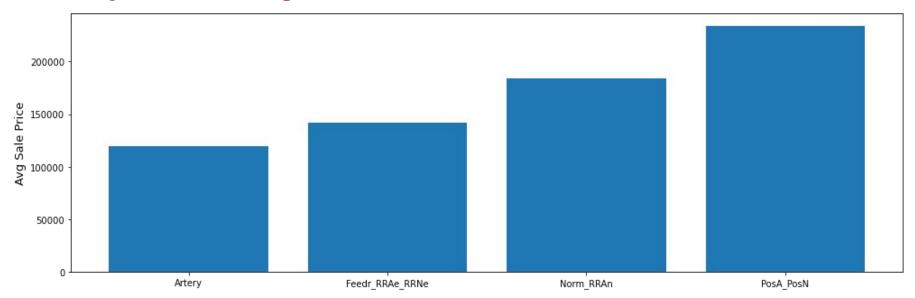
Neighborhood Groups Difference in Sale Prices



- 29 neighborhoods grouped into 5 groups based on average Sale Price
- These neighborhood groups can help predict the range of Sale Price values

Proximity to Areas

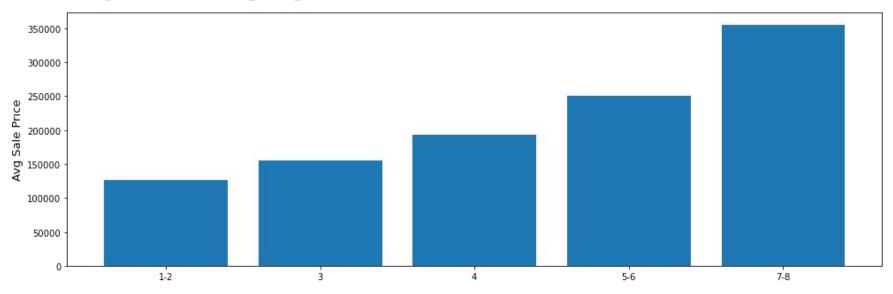
Average Sale Price for condition_bins



- Houses close to a transportation artery have lower value
- Those that are close to a park or other desirable area are more valuable

Extra Rooms (not including bedrooms)

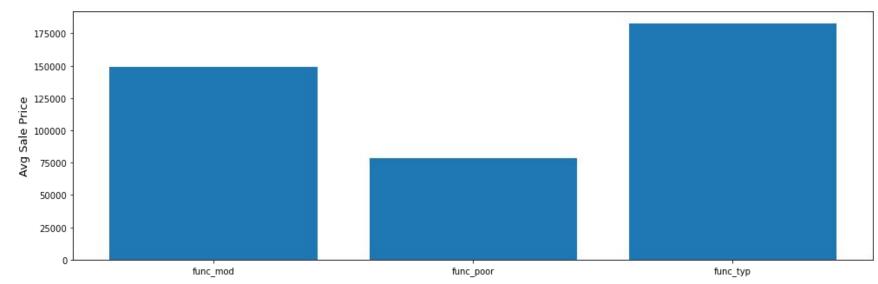
Average Sale Price for extra_rooms_bins



Sale Price increases with each additional 'Extra Room'

House Functionality Deductions

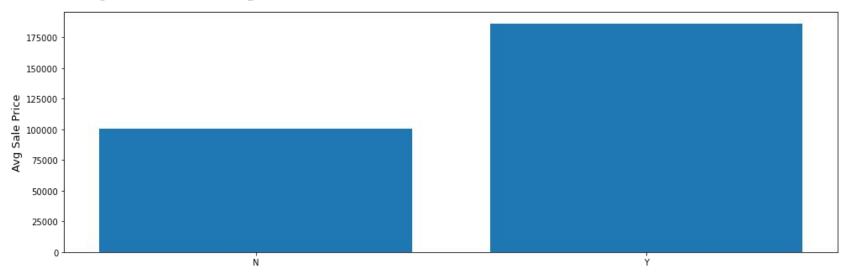




Functionality deductions greatly reduce Sale Price

Central Air

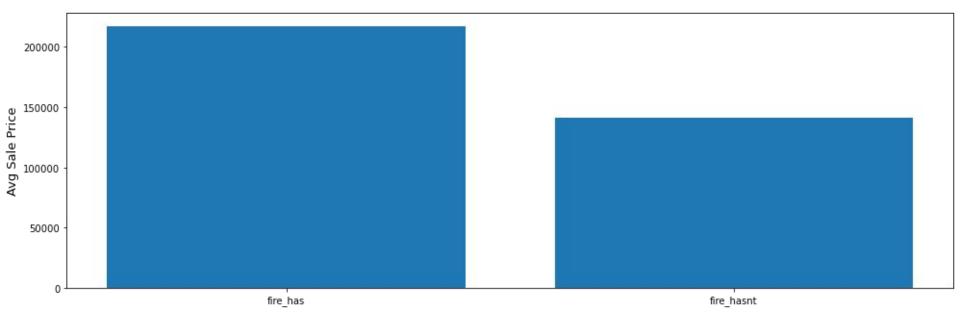
Average Sale Price for central_air



- Most houses have Central Air.
- Those that don't are roughly \$100,000 cheaper on average

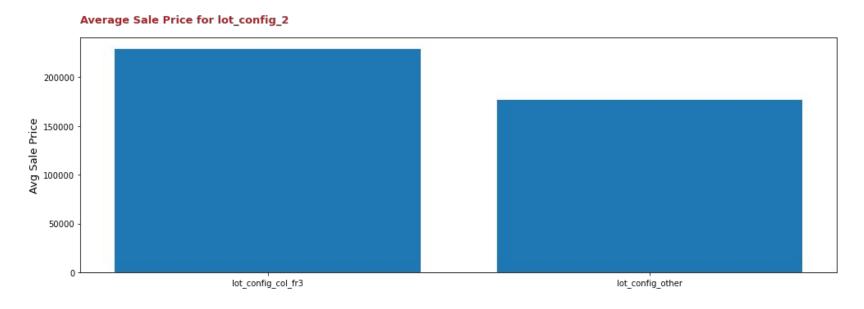
Houses with or without Fireplaces

Average Sale Price for fireplace_has



Houses without a fireplace are \$70,000 less on average

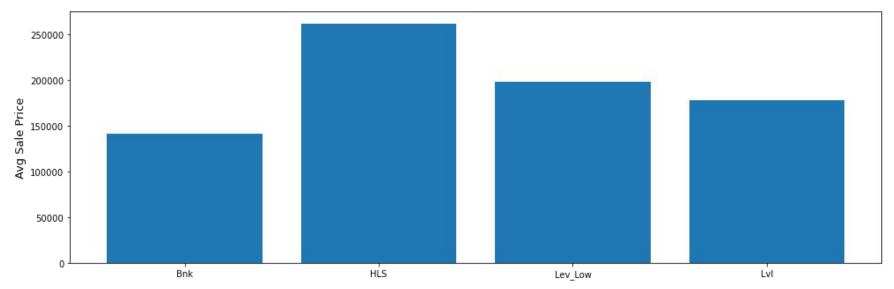
Lots On Cul-de-sac or Front Facing 3 open Sides



 Houses on a cul-de-sac or with a front facing 3 open sides are valued \$50,000 more than all others on average

Land Contour

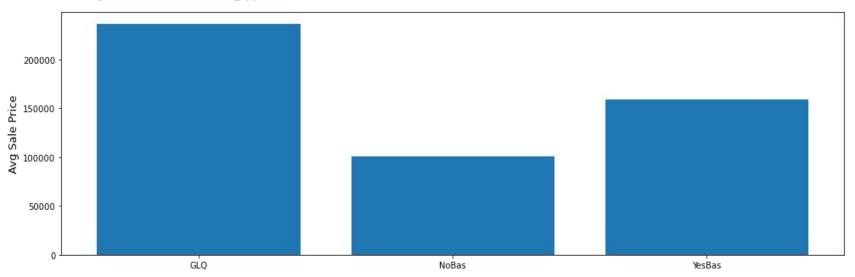
Average Sale Price for land_contour_bins



- Houses located on a bank significantly reduce the sale value
- Houses on hills are more valuable
- Those on level land contour or low contour generally have similar values

Basements - Good Living Quarters, Basements, None

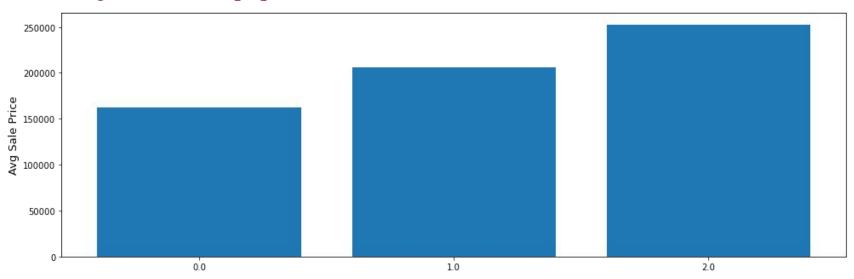
Average Sale Price for bsmt_types



- Having good living quarters in a basement significantly increases a house's value
- Houses without a basement on average are half as valuable as houses with basements

Basement with Full Bathrooms

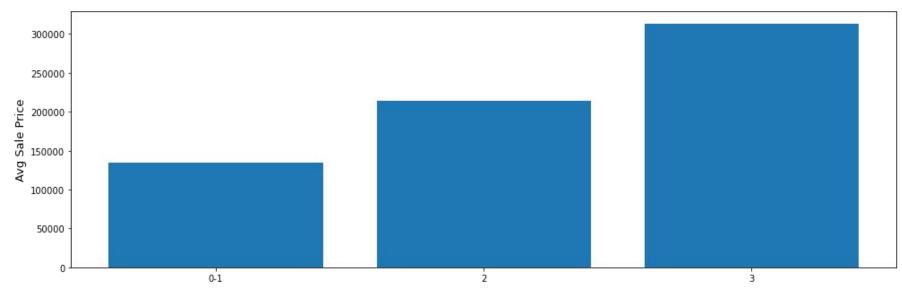
Average Sale Price for bsmt_full_bath



- Most houses don't have basement bathrooms.
- Having a basement bathroom increases the value by at least \$50,000
- 2 Basement bathrooms is rare, and usually coincides with good basement living quarters

Above Ground Full Bathrooms

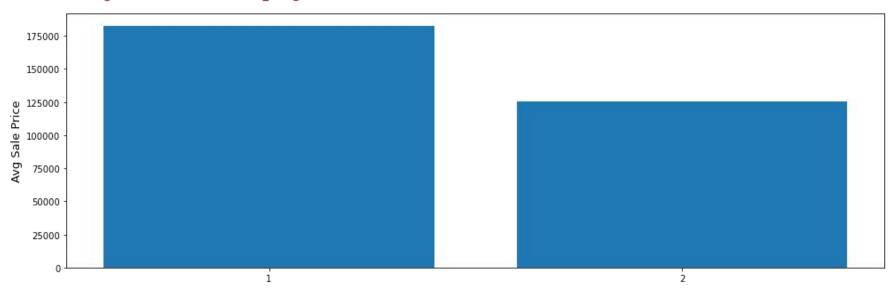




- Having more than 1 full bathroom increases the house value
- Houses with 3 or more bathrooms are rare and considerably more valuable

Number of Kitchens

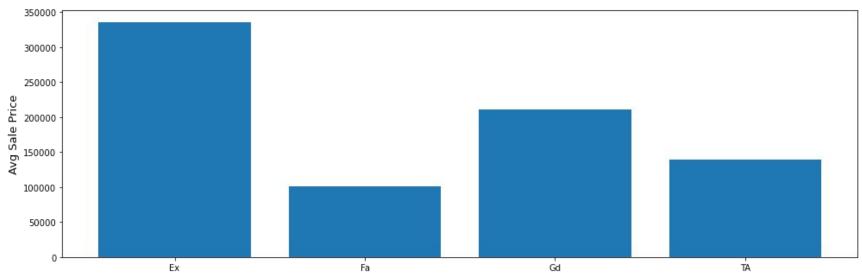
Average Sale Price for kitchen_abvgr



- Contrary to assumption, houses with more than 1 kitchen are less valuable
- Houses with 2 kitchens most likely don't have 1 fully equipped kitchen

Kitchen Quality





- Evaluation is subjective. Few kitchens were rated as excellent
- 'Fair' Kitchen quality equates to a low house value