Thoughts on Buying a Home in Ames, Iowa

Introduction



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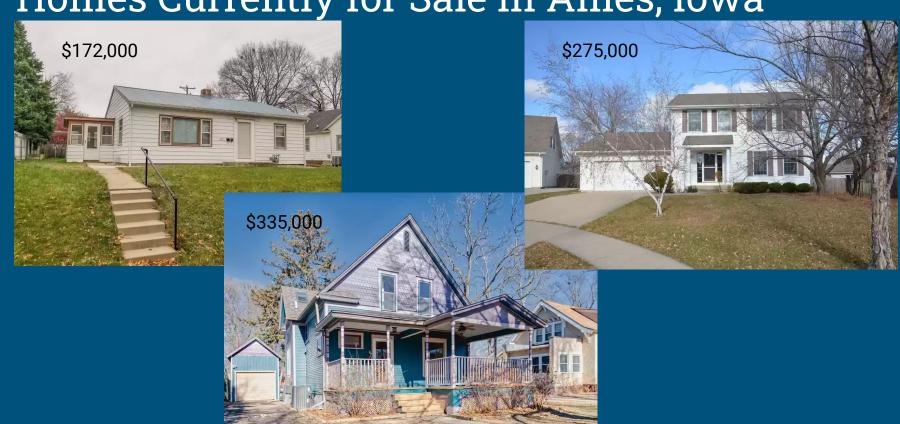
"Harnessing the power of data science to help individuals make better decisions."

Problem Statement

Buying a home is one of the most expensive and stressful purchases a person can make.

What can we learn from studying recent home sale prices that can help you make a better decision as you buy your first home in Ames, lowa?

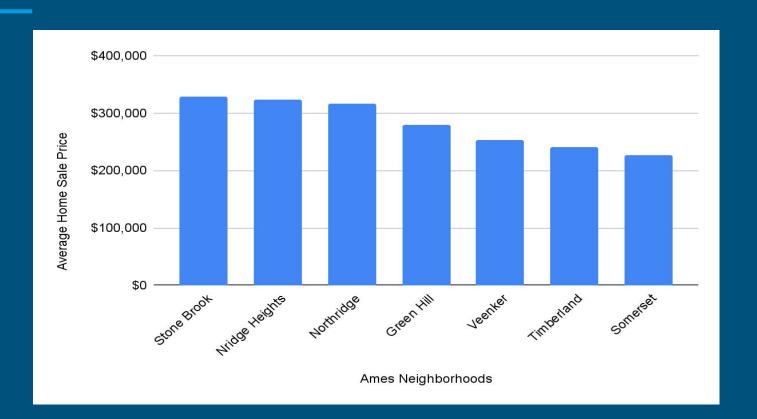
Homes Currently for Sale in Ames, Iowa



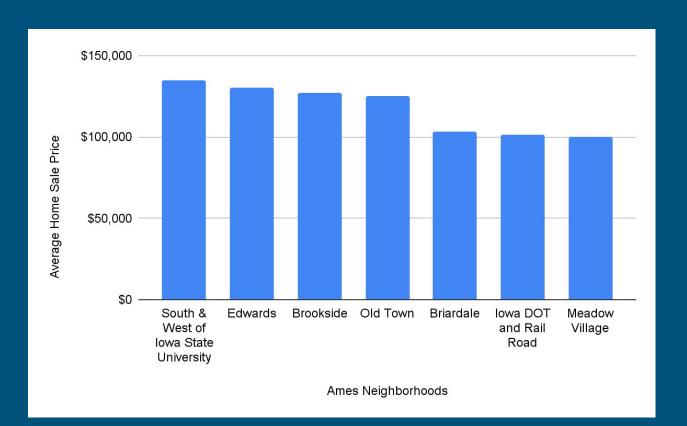
Data Science Process

- Considered over 70 measurable features related to a home.
- Looked at how each feature changed at a constant rate with respect to home sales price (correlations)
- Created several machine learning models to predict the home sales price
- Chose a simplified linear regression model

Top 7 Most Expensive Neighborhoods



Least Expensive 7 Ames Neighborhoods



What features point to higher home sale prices?

- Above Grade (ground) living area square feet
- In Northridge Heights neighborhood
- Total Basement square feet
- Number of Cars Garage can Hold
- In Stone Brook neighborhood
- Year Remodeled/Addition Added
- Year Home was built
- In Northridge neighborhood
- First Floor Square Feet

Simplified guide to higher home sale prices

Bigger is better

Neighborhoods matter (Location, Location, Location!!)

- Newer construction is better
 - A remodel/addition can refresh the sales price!

Looking at neighborhood impact

Higher Home Sale Prices

Northridge Heights

Stone Brook

Northridge

Crawford

Green Hill

Timberland

Veenker

Somerset

Clear Creek

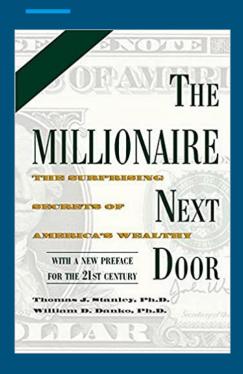
Greens

Looking at neighborhood impact

Lower Home Sale Prices

College Creek Landmark Bluestem Bloomington Heights Brookside Northpark Villa Briardale South & West of Iowa State University Northwest Ames Gilbert Meadow Village Sawyer West Mitchell Sawyer Iowa Dot and Rail Road North Ames **Old Town** Edwards

More thoughts about neighborhoods

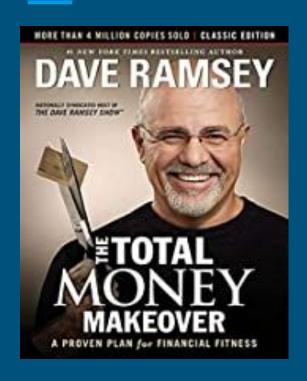


More expensive neighborhood

Ε

more expensive lifestyle

How much "house" should you buy?

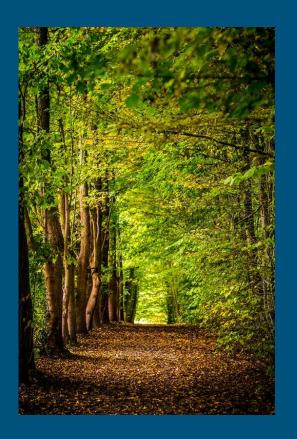


"This is the big one. Whether you're renting or buying a house, it'll be hard to balance other financial goals if your monthly housing costs (rent or mortgage) are more than 25% of your monthly take-home pay—including property taxes and insurance."

Dave Ramsey

What do you value?





Conclusion

- In general, bigger and newer homes tend to have higher sales prices.
- Neighborhoods in Ames, Iowa have an important impact on sales prices
 - Northridge Heights = more expensive
 - Edwards = least expensive
- Buying a home in an expensive neighborhood leads to "lifestyle creep"
- Know what you value
- Focus on your income rather than the size of the mortgage loan you have been approved for
 - Spend no more than 25% of that on your housing costs (and don't forget insurance & property taxes)

Sources

Data

The Ames Housing dataset was compiled by Dean De Cock in 2011, for use in data science education.

Photos

https://unsplash.com/s/photos/

www.amazon.com

https://www.realtor.com/realestateandhomes-search/Ames_IA

Questions?