



A portrait of Housing in the U.S.

Web app with visualizations of U.S. Census data

Who are we? Centers for Civic Impact at JHU

Our mission is to help governments use data to make informed, effective decisions and improve people's quality of life.



Why we need to visualize housing data?

For City residents: **Resource**

- Make easily accessible information about the housing landscape in a particular City

For policy makers: **Call-to-action**

- Encourage the use of data for informed decision making
- Quickly visualize the housing landscape
- Easily provide comparison and benchmarking with other cities

- Visualization of housing-related quality of life metrics
- All U.S. *places* with population over 30,000
- For each place:
 - Housing overview
 - Housing affordability
- Comparison of places

What is included?

The site: <https://www.govex.works/analysis/housing/>

GovEx HOUSING

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[Glossary and
Technical Note](#)

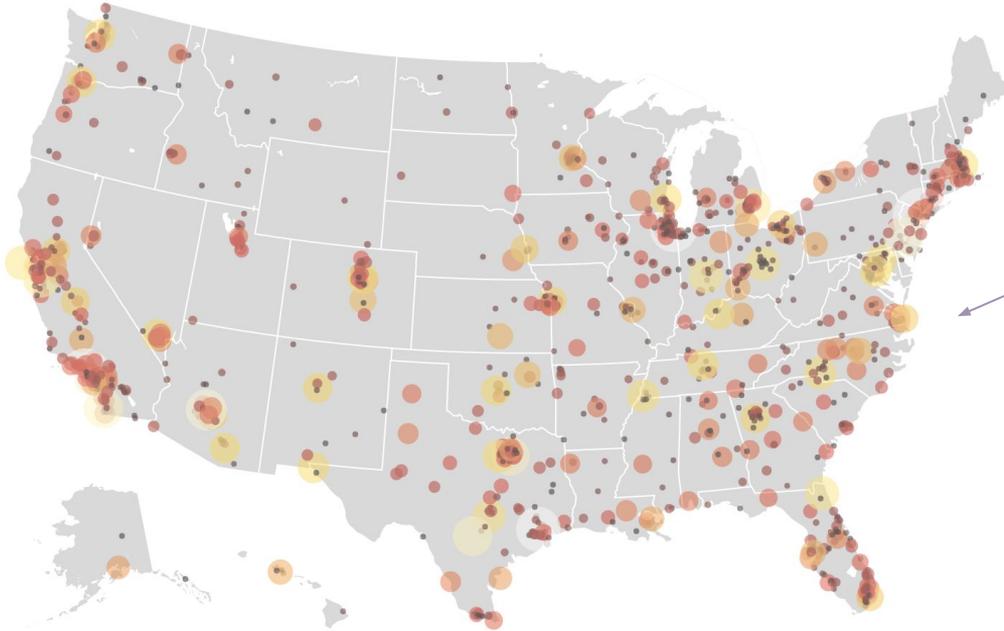
[Select a City](#)

[Cities Comparison](#)

Select a City

State

City



Use the search bar

or

Click a city on the
interactive map

Select a City: Housing Overview I

You are here

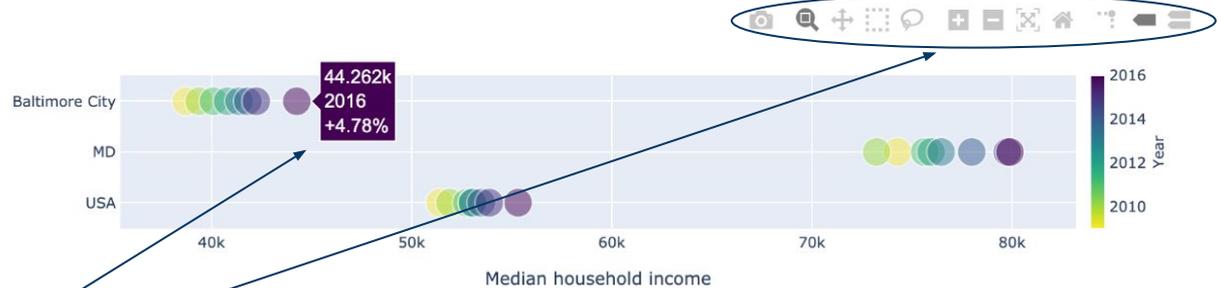
You can also click here



General data

Population	621000
Median age	34.7
Number of housing units	296923
Housing units receiving SNAP, SSI or Public Assistance Income	23.8%

What is the household income compared to state-wide and country-wide?



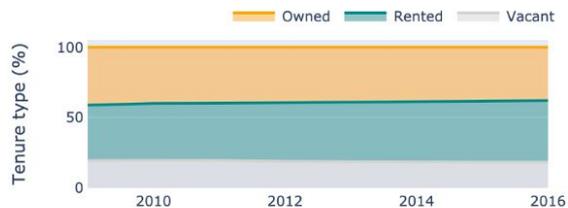
Each circle represents the median annual household income for the corresponding year and location. The annual percentage change is shown when hover over the circles. Data for the state has been calculated as the median value of the cities with a population of 30k+ in it.

Graphs are interactive

Each graph has a explainer, with links to the glossary

Select a City: Housing Overview II

What percentage of the homes are owned vs. rented?



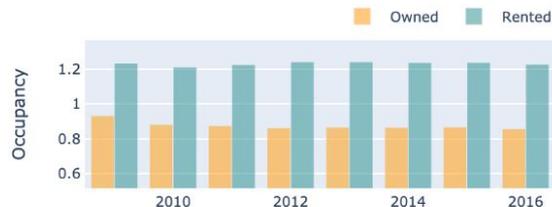
Tenure type is shown as the percentage of the total housing units that are either rented, owned or vacant

What is the house price compared to state-wide and country-wide?



Distribution of the price asked for housing units that are vacant for sale or sold but not occupied. When hover over a bar, the percentage of housing units is shown for a certain price range and for all years simultaneously. Solid lines indicate the median house value

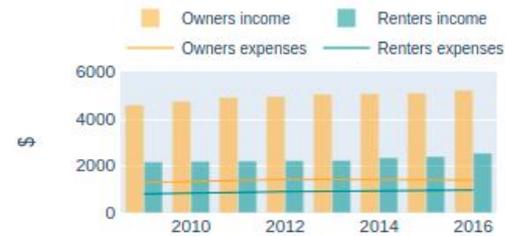
What is the average home occupancy?



How much is the rent by number of bedrooms?

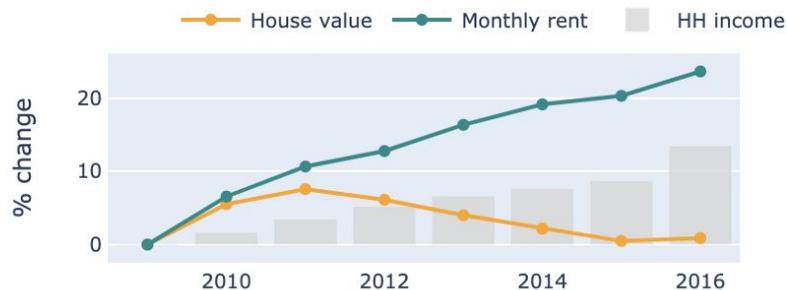


What are the average monthly housing expenses?



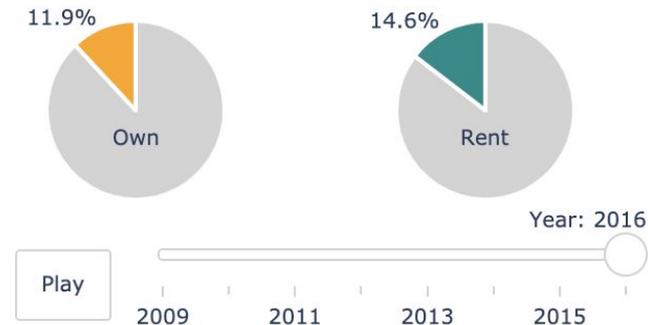
Select a City: Housing Affordability I

Are housing/renting prices rising faster than incomes?



The annual percentage change of the median household income is compared to the change in housing prices. As a reference for owning prices, the house value is used; for renting the monthly rent amount is depicted.

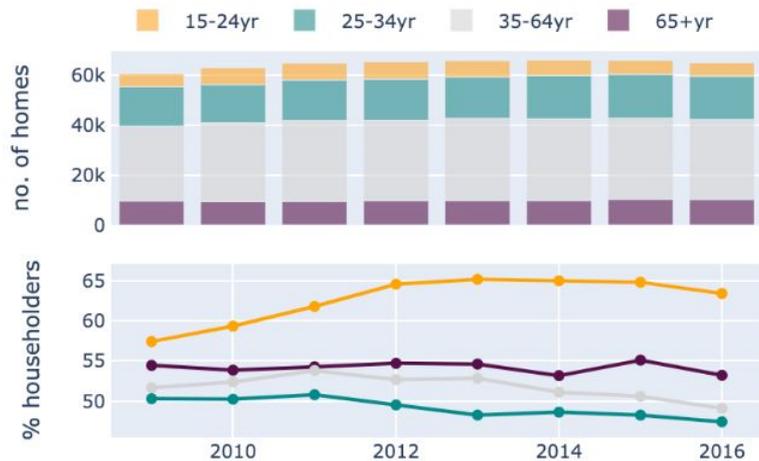
Is the City affordable to ELI households?



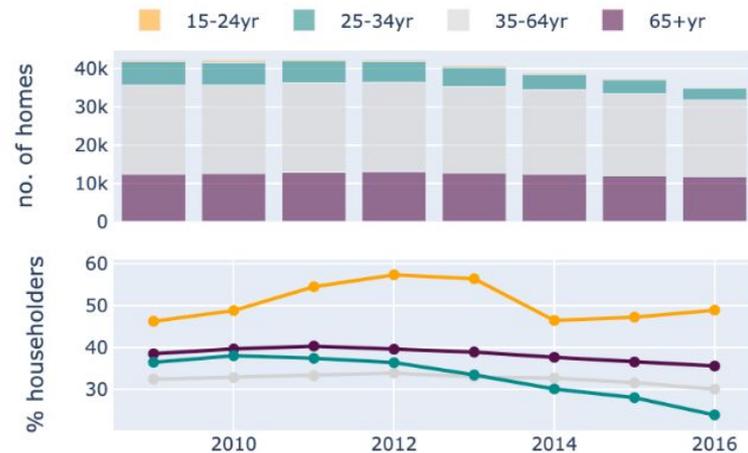
Here we display the percentage of homes, and absolute value when hover, that are affordable for the Extremely Low Income (ELI) households.

Select a City: Housing Affordability II

How many renters live beyond affordability?



How many owners live beyond affordability?



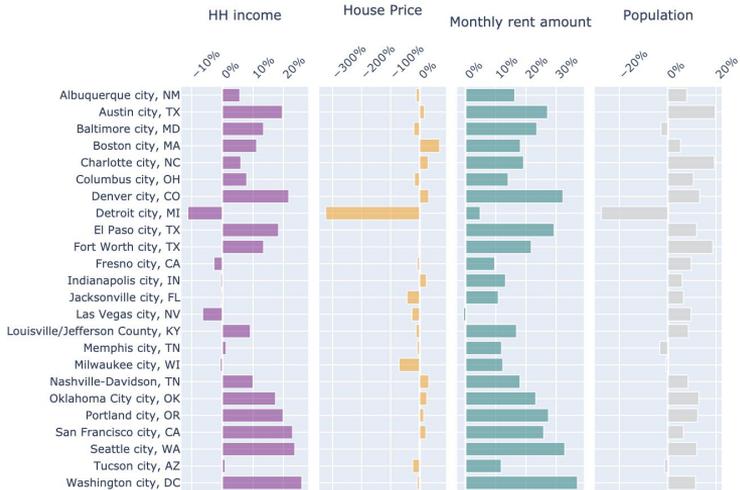
Cities comparison

Type of grouping

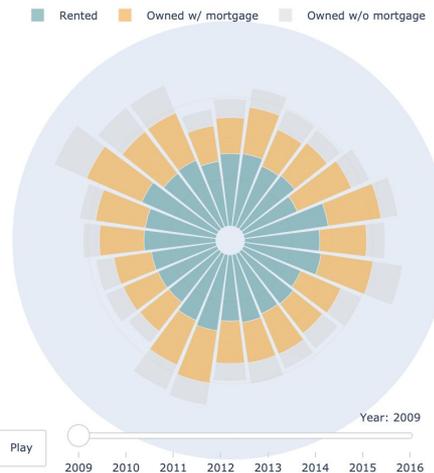
Group

- ✓ Select
- By state
- By region
- By population
- By network
- Custom

Housing changes since 2009



How has rental/housing affordability changed?



How much do owners spend on property tax?



Final notes

Future work:

- Update data to include latest ACS
- Include visualizations with “neighborhood” level data

Conclusions:

- ACS is the most homogeneous, complete, and comprehensive dataset about housing in the U.S.
- Providing easy access to the dataset through data visualizations is not only informative but is also encouraging local governments to make use of the data for decision making

An aerial, high-angle photograph of a large, open plaza paved with light-colored tiles. The plaza is filled with many people walking in various directions, some in small groups and some alone. The overall scene is busy and captures a moment of public life. The text 'Thank you!' is overlaid on the left side of the image.

Thank you!

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