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CITY-FYNDERS

WHICH CITY WOULD YOU
LIKE TO LIVE IN?





100 Best Places to Live in the USA

U.S. News analyzed the 100 most populous metro areas to find the best places to live. To make the top of the list, a place had to have good value, be a desirable place to live, have a strong job market and a high quality of life.

[Read the Best Places to Live methodology](#)

Population Size

- ☐ X-Large 2.5M+ (21)
- ☐ Large 1M - 2.5M (31)
- ☐ Medium 500K - 1M (46)
- ☐ Small 50K - 500K (27)

Average Rent



Median Home Price



Commute Time

125 matches

SORT BY: Ranking

High to Low

Austin, TX

#1 in Best Places to Live

About 50 people move to Austin every day, drawn to the Texas capital's music, outdoor spaces and cultural institutions. Austin was ... [more](#)



7.8 Overall Score | 7.3 Quality of Life | 7.3 Value

Denver, CO

#2 in Best Places to Live

Founded in the mid-1800s as a mining hub during the gold rush, Denver has come a long way since its Wild West days. Over time, its ... [more](#)



BACKGROUND

NOW, LET'S DIY!!

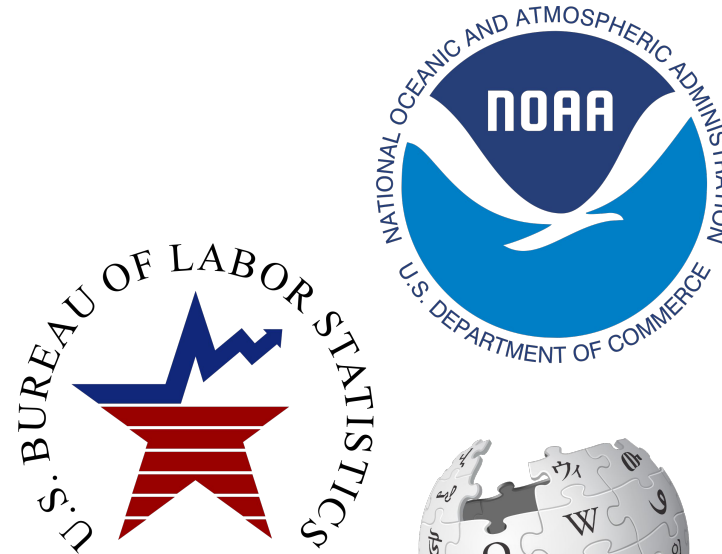
4 TYPES OF SELECTED CRITERIA

- Environment
- Human Related
- Economy
- Entertainment



1. ENVIRONMENT
2. HUMAN RELATED
3. ECONOMY
4. ENTERTAINMENT

DATA USED



WIKIPEDIA
The Free Encyclopedia

 DATA.GOV

 CLIMATE

kaggle.com

 infoplease

 TAX
FOUNDATION

Expatistan
COST OF LIVING INDEX

 NUMBEO

 PRIVATE
SCHOOL
REVIEW

► 4 CATEGORIES

- Environment
- Human related
- Economy
- Entertainment

	Environment	Human	Economy	Entertainment
Seasonal avg. temperature	x			
Annual avg. precipitation	x			
Snowfall avg.	x			
Air and water quality	x			
Crime rate		x		
Avg. household income			x	
Unemployed rate			x	
Living cost				x
City-owned parks				x
Bar count				x
Restaurant count				x
museums count				x

DATA LIMITATION

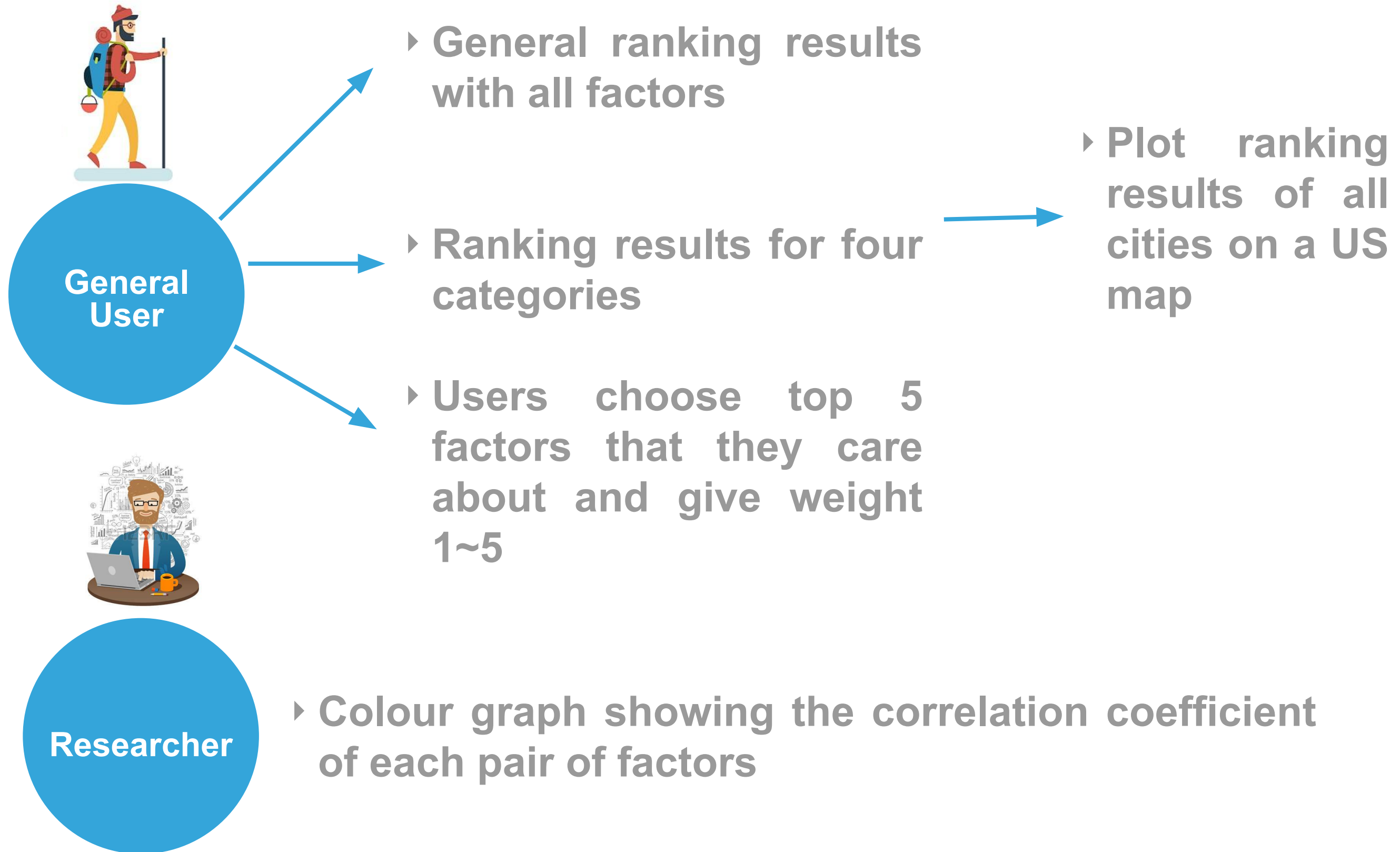


Residents	NumTop200Restau	Bar_Rank	Restaurant_Rank	Museums_Rank	Libraries_Rank	Park_Rank	TopRes_Rank
	3.0	21.0	21.0	10.0	14.0	28.0	6.0
	2.0	15.0	12.0	19.0	19.5	4.0	8.5
	0.0	13.0	19.0	9.0	16.0	24.5	21.5
	NaN	NaN	NaN	NaN	NaN	NaN	NaN
	3.0	24.0	14.0	8.0	6.0	24.5	6.0
	NaN	NaN	NaN	NaN	NaN	NaN	NaN
	NaN	25.0	16.0	29.0	25.0	12.0	NaN
	19.0	2.0	3.0	4.0	4.0	33.0	3.0
	0.0	27.0	32.0	27.5	19.5	11.0	21.5

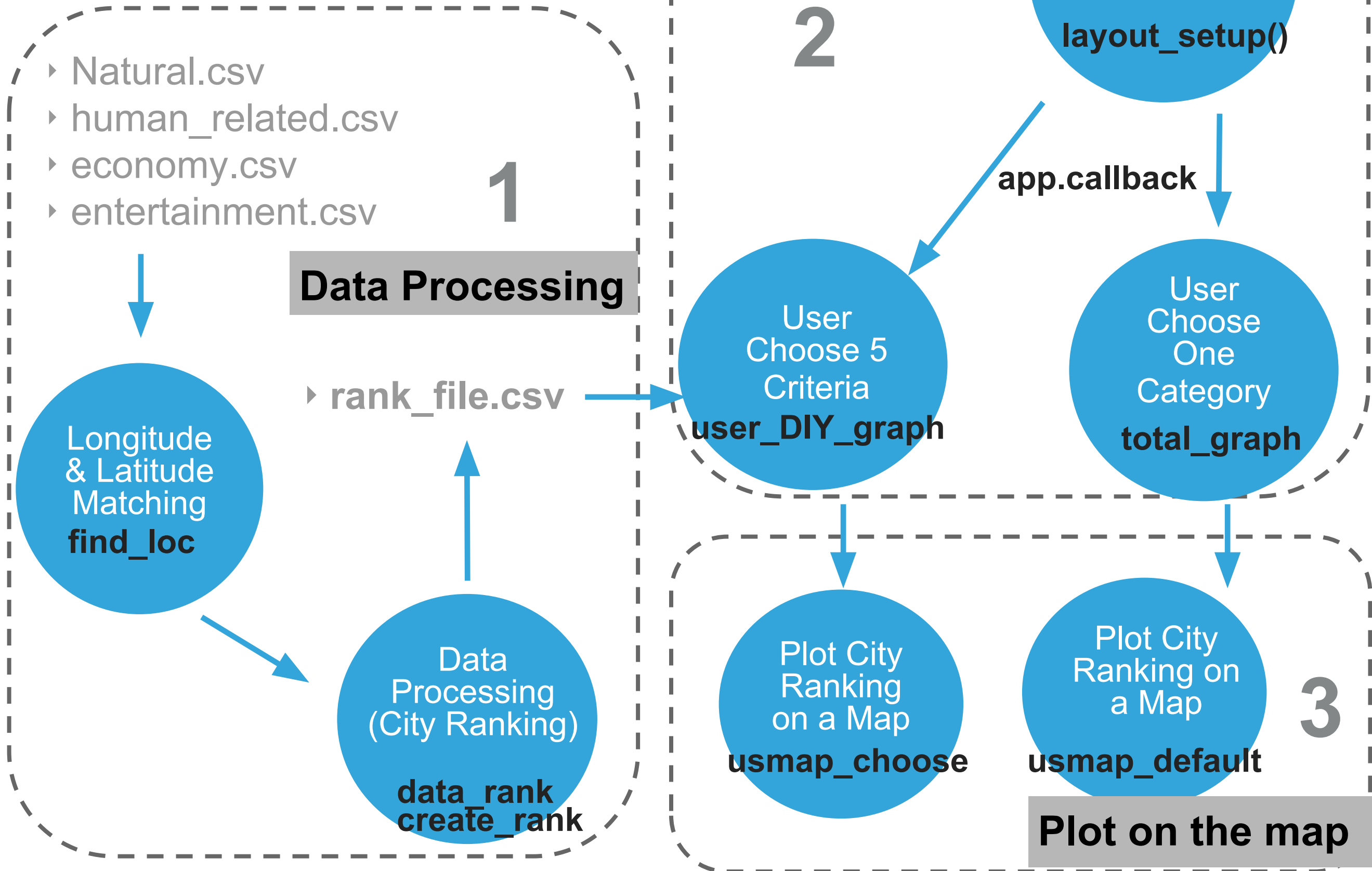
- Data obtained failed to satisfy every city ('NAN EXISTS')
- Data from different years
- Limited data obtained based on the chosen category



USE CASE



DESIGN



DEMO

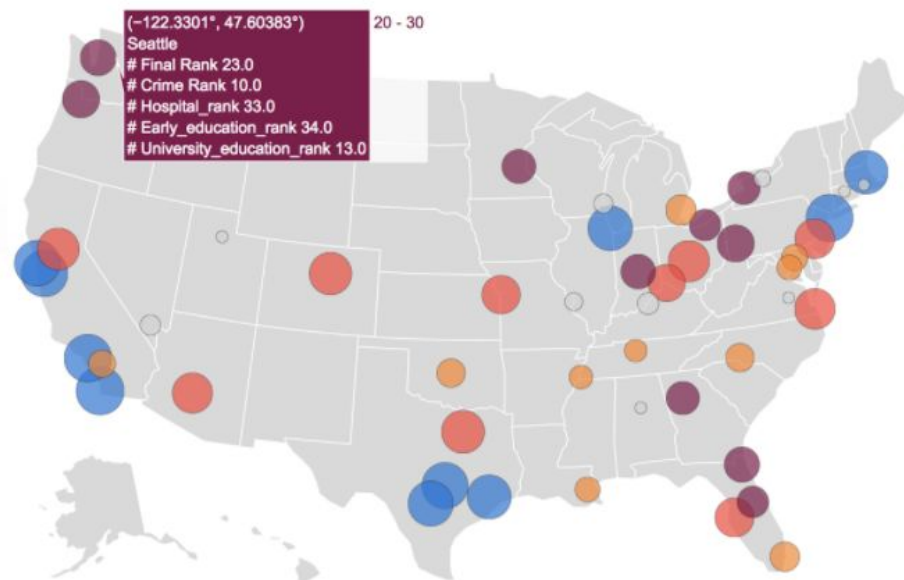


Find Your Dream City to Live in the US

Powered by City Fynders



The human related ranking of US big cities



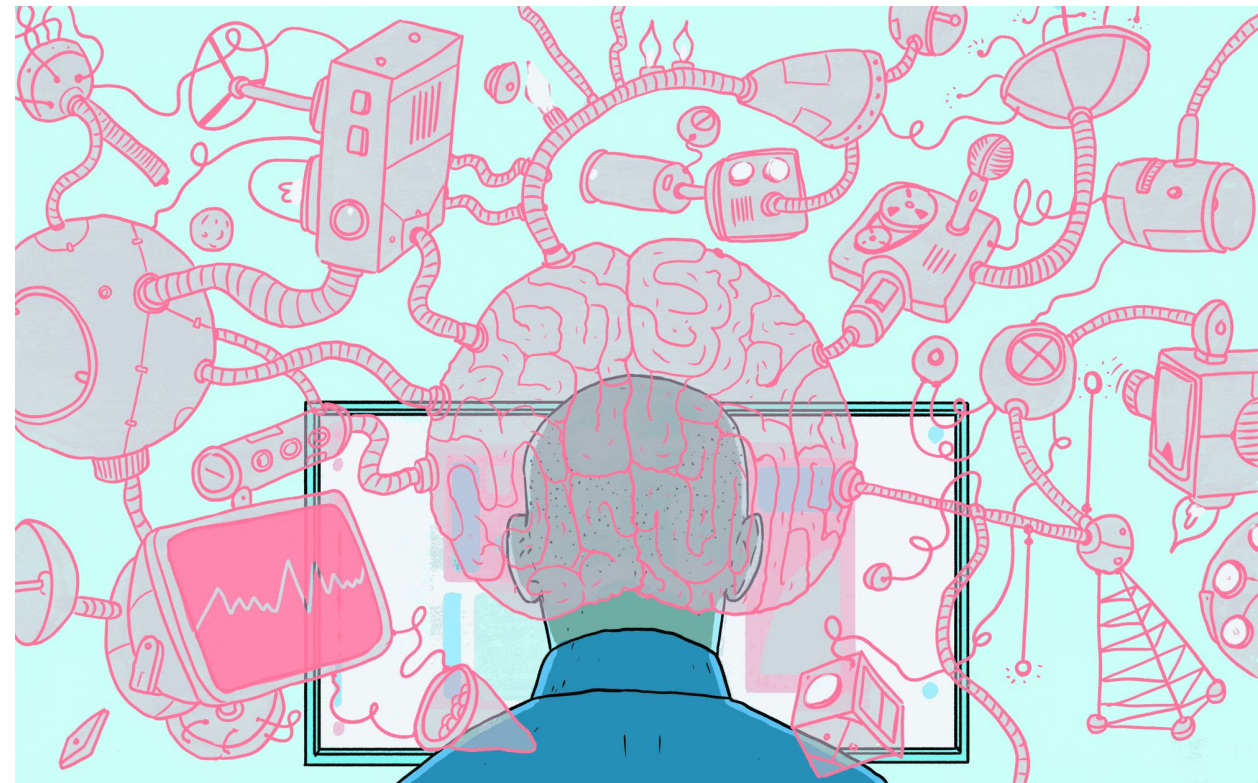
PROJECT STRUCTURE

🔗 michaelhzc delete instruction.md		Latest commit 6cb2a4a 16 minutes ago
📁 cityfynders	add __init__.py	17 minutes ago
📁 data	rank file	13 days ago
📁 doc	change all to its dir	3 hours ago
📁 examples	add example	an hour ago
📁 paper	this is the paper of the project	13 days ago
📁 submodule	submodule format change	6 days ago
📁 tests	add test file	6 days ago
📄 .gitignore	add .DS_Store as ignore	2 days ago
📄 .travis.yml	this script tells github to run the tests after every commit	13 days ago
📄 LICENSE	Initial commit	2 months ago
📄 README.md	add problem statement	27 days ago
📄 setup.py	change __init__ and add setup.py	42 minutes ago

<https://github.com/UWSEDS-aut17/uwseds-group-city-fynders>

WHAT DID WE LEARN?

- Basic recognition of python
- Version control with github
- Programing styles
- Visualization with python
- Tests
- Software design



LESSONS LEARNED

- Set up a server displaying the webpage only
- Beautify and optimize the webpage
- Allow users to update the data
- More data analysis
- Apply machine learning to predict the changes of data

FUTURE WORK

