



Dogs of Zürich

Data Visualization Project

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Topic and dataset

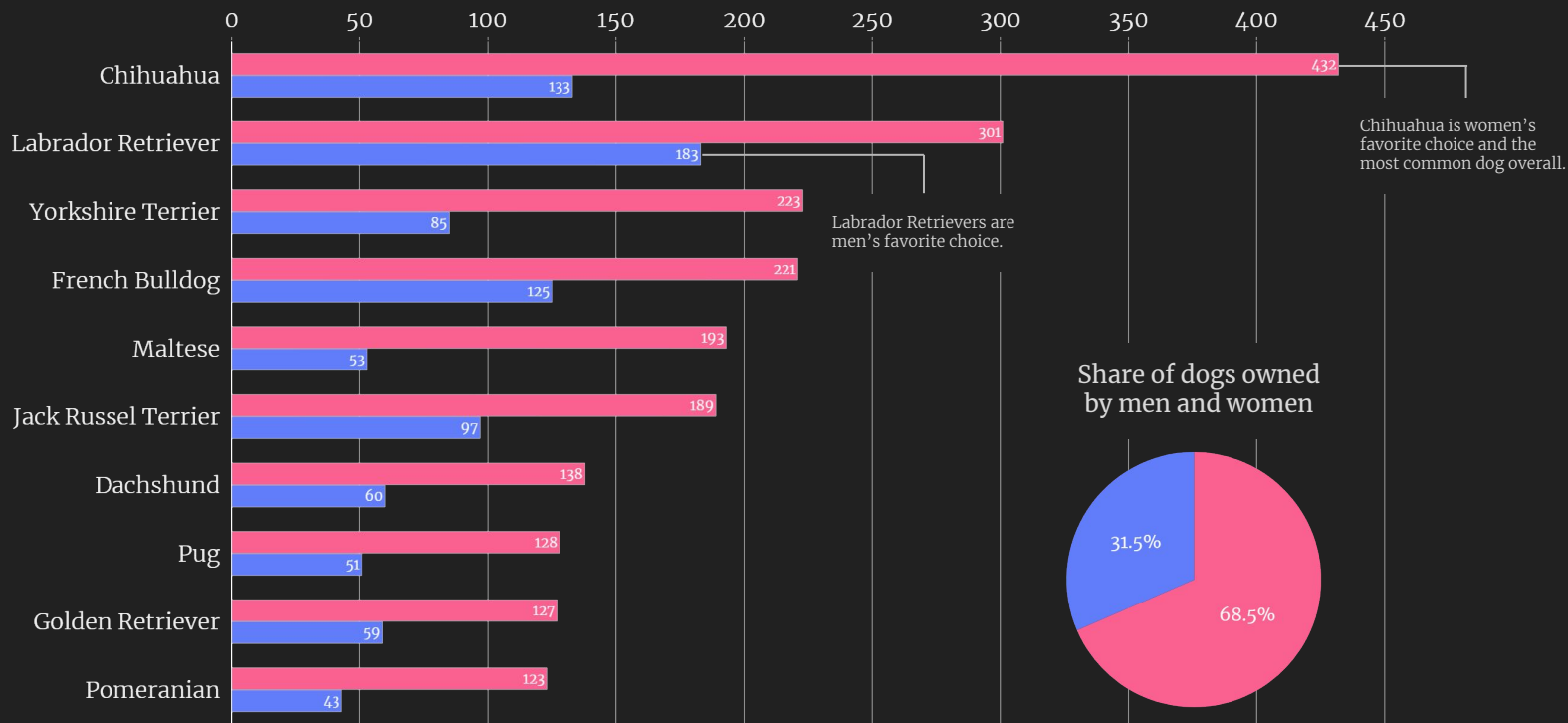
- Dog ownership in Zürich, Switzerland
- Includes data about registered dogs that were still alive in 2021 and about their owners;
- Alongside it, data about Zürich's population has been used to trace patterns in dog density throughout the city
- Fields used: QuarLang, KreisLang, Rasse1Text, AlterV10Sort, HalterId, StichtagDatJahr, SexSort, AnzBestWir;
- Data – dogs: [Open Data Zürich](#);
- Data – population: [Open Data Zürich](#);
- Data – map: [Metabolism of Cities – Data Hub](#).

Addressed questions

1. Do **men** and **women** have similar preferences in **dog** ownership?
2. How does the **age** of the **owner** correlate with the **age** of the **dog**?
3. What are the **areas** with the highest concentrations of **dogs**?

Women own more than two thirds of dogs

Most common dog breeds in Zürich divided by gender of owner, in 2021.



Highlights:

- Women have more dogs than men
- **Chihuahua** is the preferred breed by women and the most common choice overall
- **Labrador Retriever** is the preferred breed by men

Mapping bar chart:

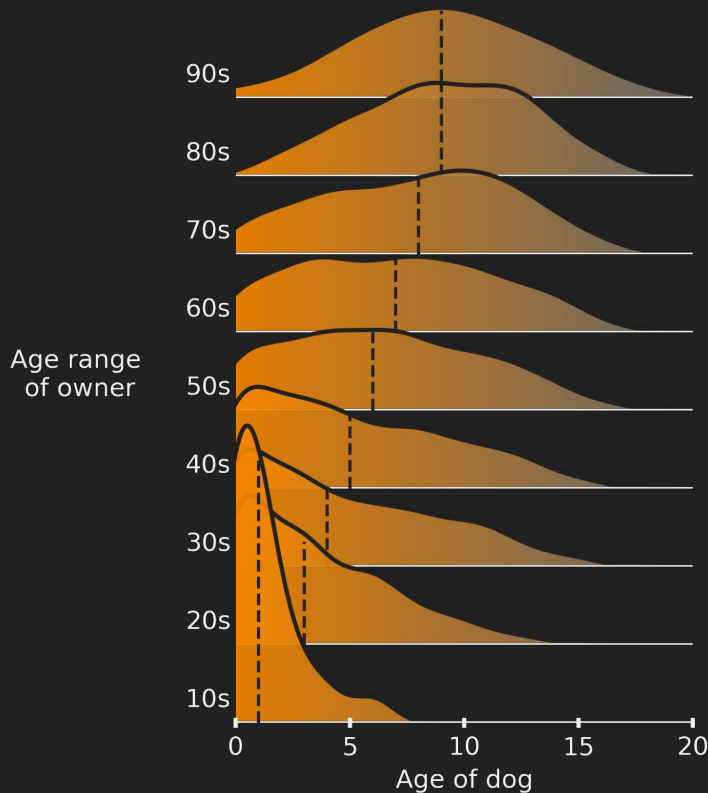
	Attribute	Visualizer
Dog breed (y-axis)	categorical	position
Owner gender	categorical	color hue
# dogs per breed	quantitative	length

Mapping pie chart:

	Attribute	Visualizer
Owner gender	categorical	color hue
Owner ratio	quantitative	area

Older dogs for older Zürchers

Comparison between the ages of registered dogs in Zürich and the ages of their owners, in 2021.



Highlights:

- Older people tend to own older dogs
- Children tend to own dogs below the age of 5
- No significant change is observed from 80s to 90s

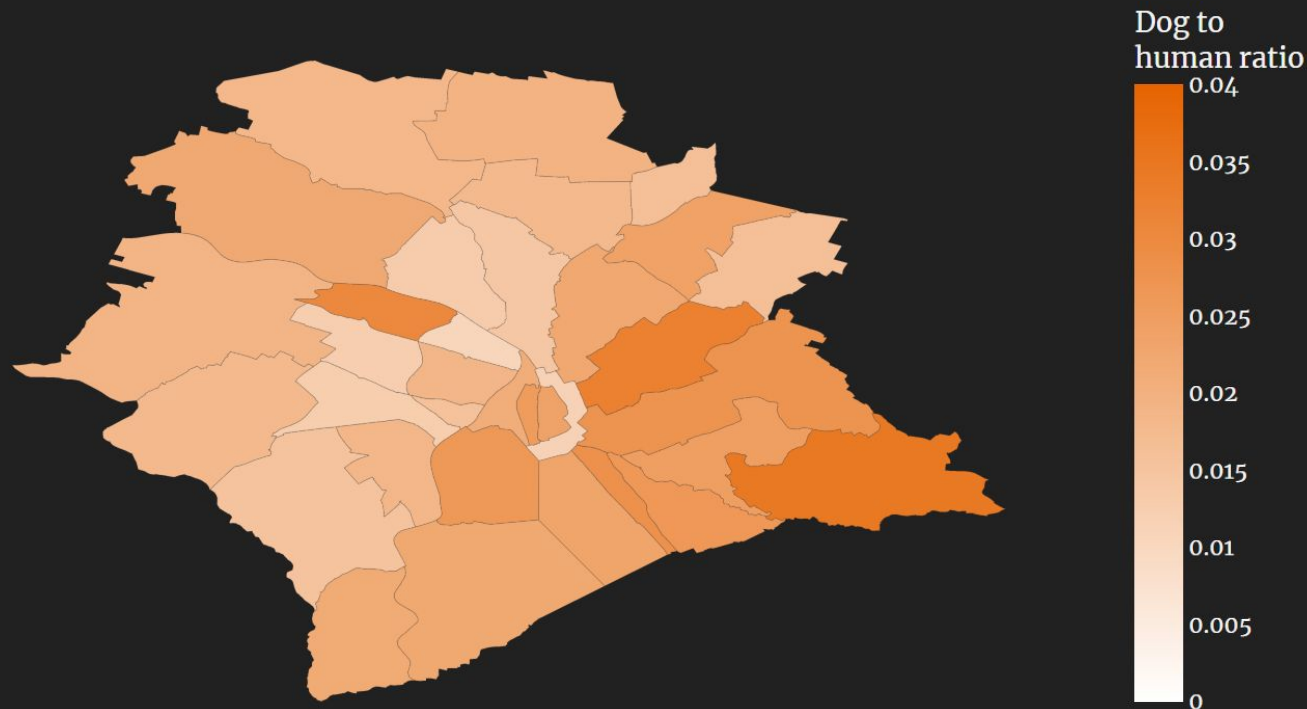
Mapping:

	Attribute	Visualizer
Owner range age (y-axis)	ordinal	position
Dog age	quantitative	color saturation
Dog age frequency	quantitative	height

Note: dog's age distributions are normalized for each owner's age range.

Witikon is the neighbourhood with most dogs per capita

Density of dog to human ratio for neighbourhoods and districts in Zürich, in 2021.



Full Dash interactive map
available on `plot.py`.

Source - dogs: https://data.stadt-zuerich.ch/dataset/sid_stapo_hundebestand_od1001
Source - population: https://data.stadt-zuerich.ch/dataset/bev_bestand_jahr_quartier_nationalitaet_od3361

Highlights:

- **Witikon** is the neighbourhood with the highest density of dogs per capita, while Hoghschulen and Gewerbeschule have the lowest
- **District 7** is the district with the highest concentration, while districts 3 and 4 have the lowest ones
- No neighbourhood or district exceeds the value of 0.04 dogs per capita

Mapping:

	Attribute	Visualizer
Neighbourhood and district	categorical	position
Dog to human ratio	ordinal	color tint

Contributions:

- Initial exploration and questions: **Gianluca Guglielmo**
- Dataset preprocessing: **Gianluca Guglielmo**
- Plot design: **Gianluca Guglielmo**
- Aesthetic refinements: **Gianluca Guglielmo**

Thank you for your attention!