



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

We begin at 10.15 while we wait for everyone to arrive and get comfortable.

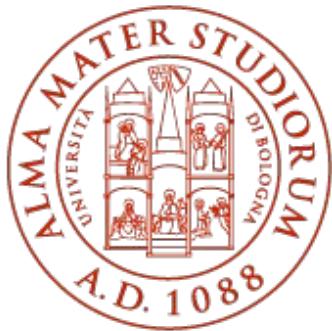
In the meantime get ready:

- Have both Flourish and Datawrapper open.
- Download slides from Virtuale for access to links and datasets

Alice Corona

Dipartimento di Scienze Statistiche "Paolo Fortunati"

# **96801 - LANGUAGE LABORATORY: COMMUNICATION OF STATISTICS AND DATA BUSINESS ANALYTICS**



**LESSON 9 - 04/12/2025**

**ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA**

**Alice Corona**

Dipartimento di Scienze Statistiche "Paolo Fortunati"

# DATA VIZ WORKSHOP

Making maps

# GEODATA & MAPS

# **WHAT IS GEODATA?**

# GEODATA FORMATS: TYPES

## RASTER

We will not talk about it, but you can read more [here](#).

## VECTOR

Composed of geometric primitives:

- **points**, defined by x,y coordinates
- **segments**, defined by the x,y coordinates of the points that form it
- **polygon**, defined by the x,y coordinates of the points of the segments that form it

# GEODATA FORMATS: TYPES

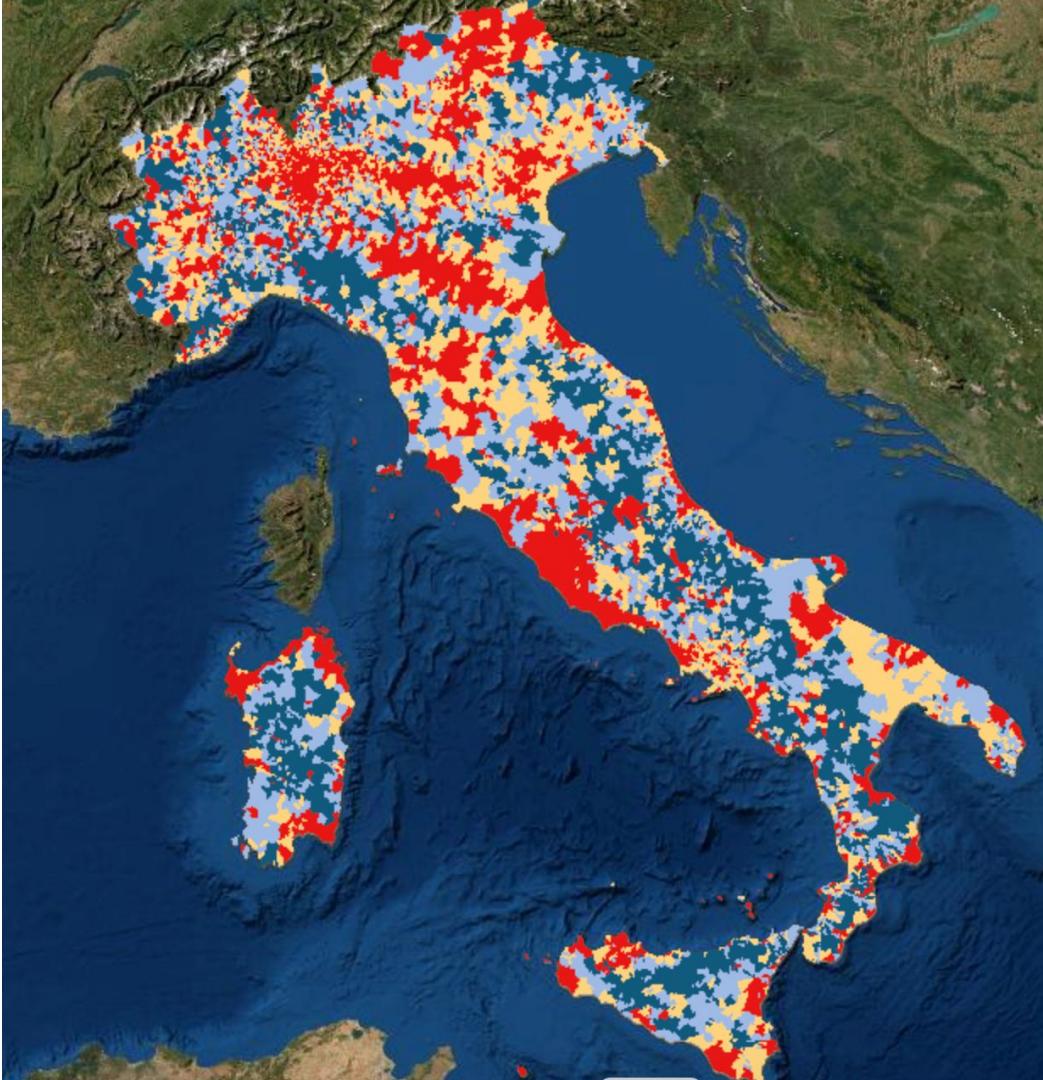
## RASTER

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## VECTOR

Composed of geometric primitives:

- **points**, defined by x,y coordinates
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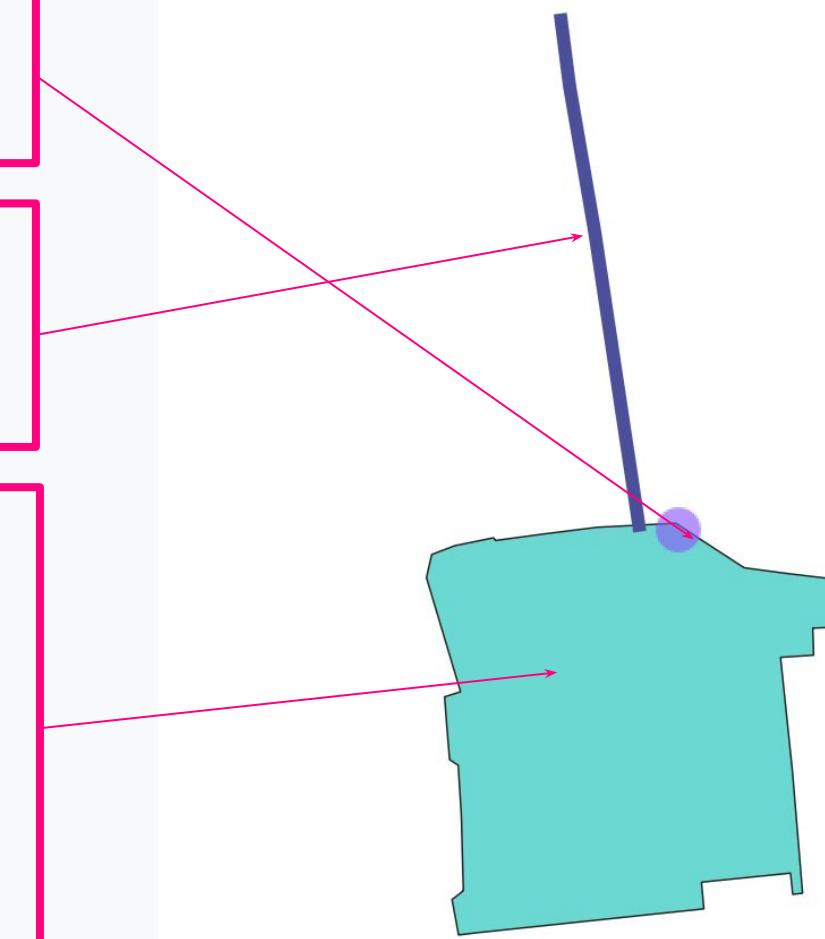
## GEODATA FORMATS: .CSV / SPREADSHEETS

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2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	178.4734322	-38.25412784	1.987484953	28.90625
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	176.1695696	-38.46475897	2.456398653	153.125
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	177.4477559	-37.69434544	2.172615393	52.8125
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	172.4038845	-43.61736644	2.221402972	9.921875
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	176.5673243	-37.85364822	2.381214887	90.3125
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	175.6586602	-39.26602063	0.784917104	67.8125
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	174.8915884	-41.11647523	2.882207598	30.07813
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	176.0801814	-39.96313712	1.609327328	24.45313
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	175.7615368	-38.67061338	3.457217946	142.3438
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	174.6997467	-39.30605315	2.33739074	24.92188
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	174.6949536	-39.29756737	2.807979919	24.92188
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2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	176.1486309	-39.05088715	1.315958386	48.125
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	176.0763517	-38.63151112	1.911692052	5.820313
2015-09-22T00:00:00Z	2015-09-22T00:00:00Z	170.3621829	-45.28312548	2.628057845	6.40625

# GEODATA FORMATS: .GEOJSON

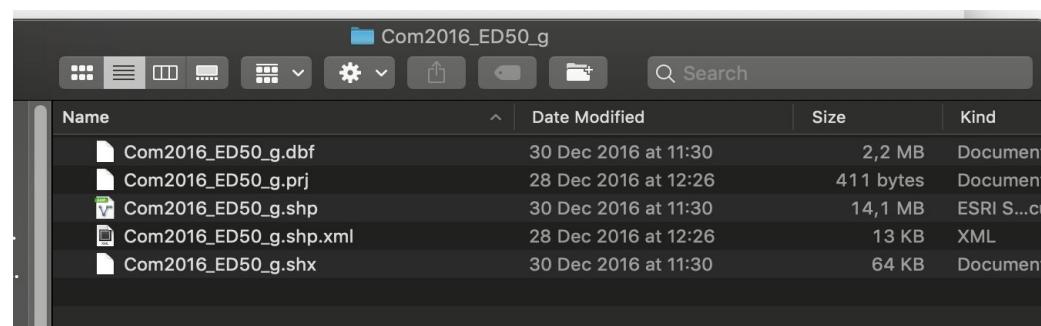
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          [11.1220237, 46.0676378],[11.1219858, 46.0676408],[11.121853, 46.0676517],  
          [11.1217408, 46.0676621],[11.1215635, 46.0677421],[11.1214686, 46.0677385],  
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    },  
    {  
      "type": "Feature",  
      "geometry": {  
        "type": "Polygon",  
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            [11.1217408, 46.0676621],[11.1215635, 46.0677421],[11.1214686, 46.0677385],  
            [11.1213621, 46.0677348],[11.121226, 46.067723],[11.1210982, 46.067711],  
            [11.1210937, 46.0677159],[11.1209933, 46.0677017],[11.1209337, 46.0676859],  
            [11.1209262, 46.0676632]  
          ]  
        ]  
      },  
      "properties": {  
        "name": "Piazza del Duomo",  
        "surface": "cobblestone"  
      }  
    }  
  ]  
}
```



# GEODATA FORMATS: .GEOJSON

	Versione generalizzata (meno dettagliata)	
Anno	ED50 UTM32N	WGS84 UTM32N
2016	<a href="#">zip</a>	<a href="#">zip</a>
2015	<a href="#">zip</a>	<a href="#">zip</a>
2014	<a href="#">zip</a>	<a href="#">zip</a>
2013	<a href="#">zip</a>	<a href="#">zip</a>
2012	<a href="#">zip</a>	<a href="#">zip</a>
2011 (*)	<a href="#">zip</a>	<a href="#">zip</a>
2010	<a href="#">zip</a>	<a href="#">zip</a>
2008	<a href="#">zip</a>	<a href="#">zip</a>
2001 (*)	<a href="#">zip</a>	<a href="#">zip</a>
1991 (*)	<a href="#">zip</a>	<a href="#">zip</a>





Com2016\_ED50\_g

Name	Date Modified	Size	Kind
Com2016_ED50_g.dbf	30 Dec 2016 at 11:30	2,2 MB	Document
Com2016_ED50_g.prj	28 Dec 2016 at 12:26	411 bytes	Document
Com2016_ED50_g.shp	30 Dec 2016 at 11:30	14,1 MB	ESRI S...cu
Com2016_ED50_g.shp.xml	28 Dec 2016 at 12:26	13 KB	XML
Com2016_ED50_g.shx	30 Dec 2016 at 11:30	64 KB	Document

**WHAT IS A  
THEMATIC  
MAP?**

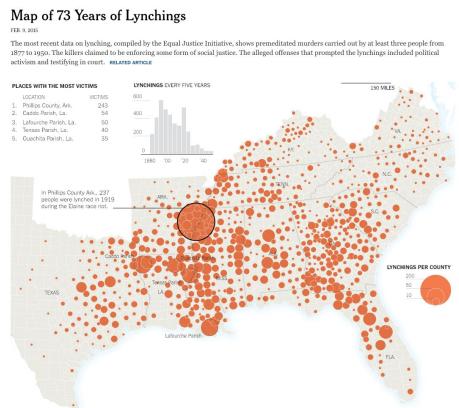
## CHOROPLETH MAP

Regions are colored according to the value associated with it.



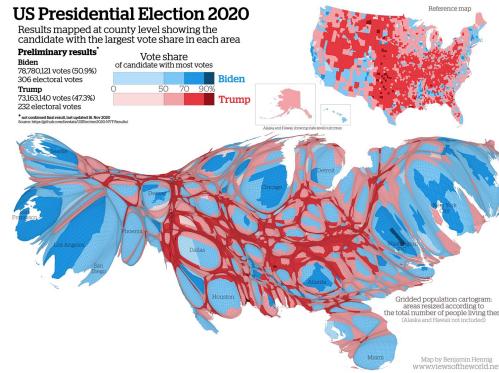
## PROPORTIONAL SYMBOLS MAP

Symbols (circles, usually) are placed over a set of coordinates and are sized proportionally with the value associated to that



## CARTOGRAM (GEOMETRIC OR NOT)

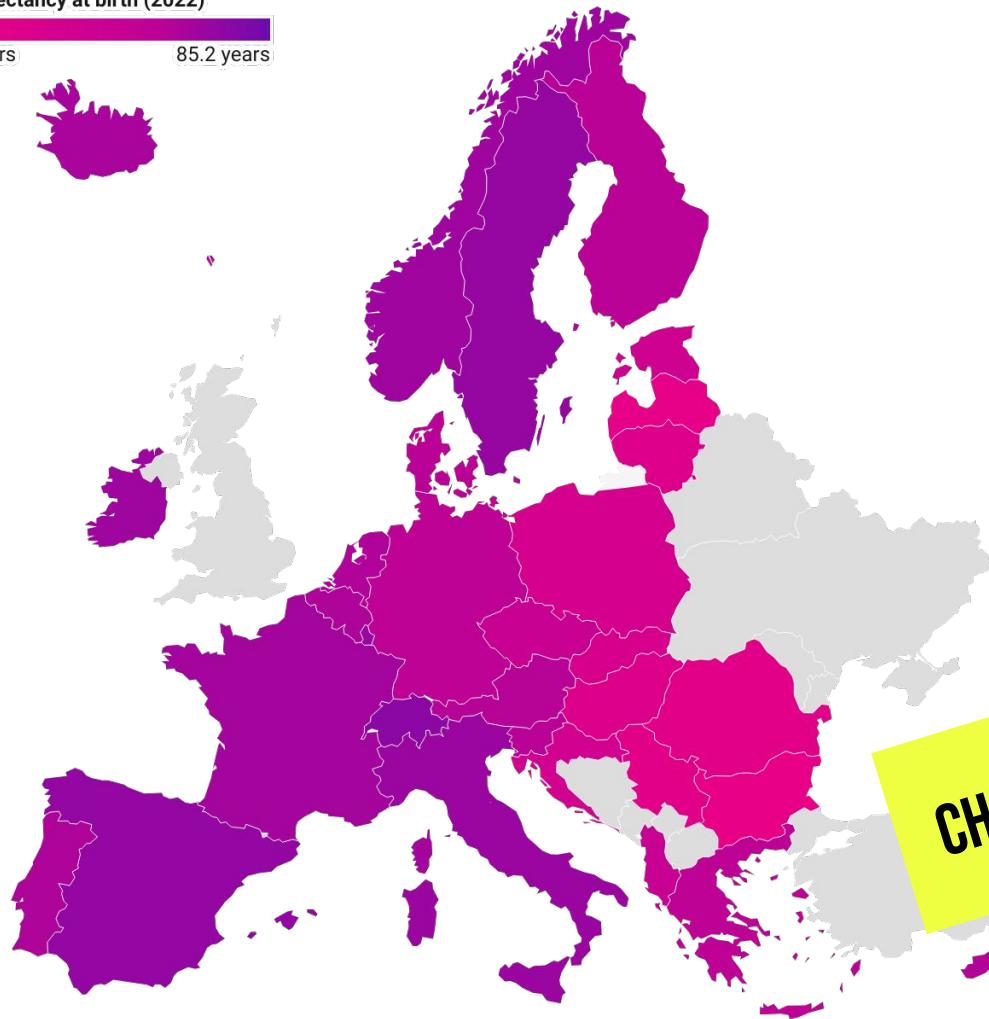
A map in which geographic dimensions are distorted to reflect the values in the data.



Life expectancy at birth (2022)

72.3 years

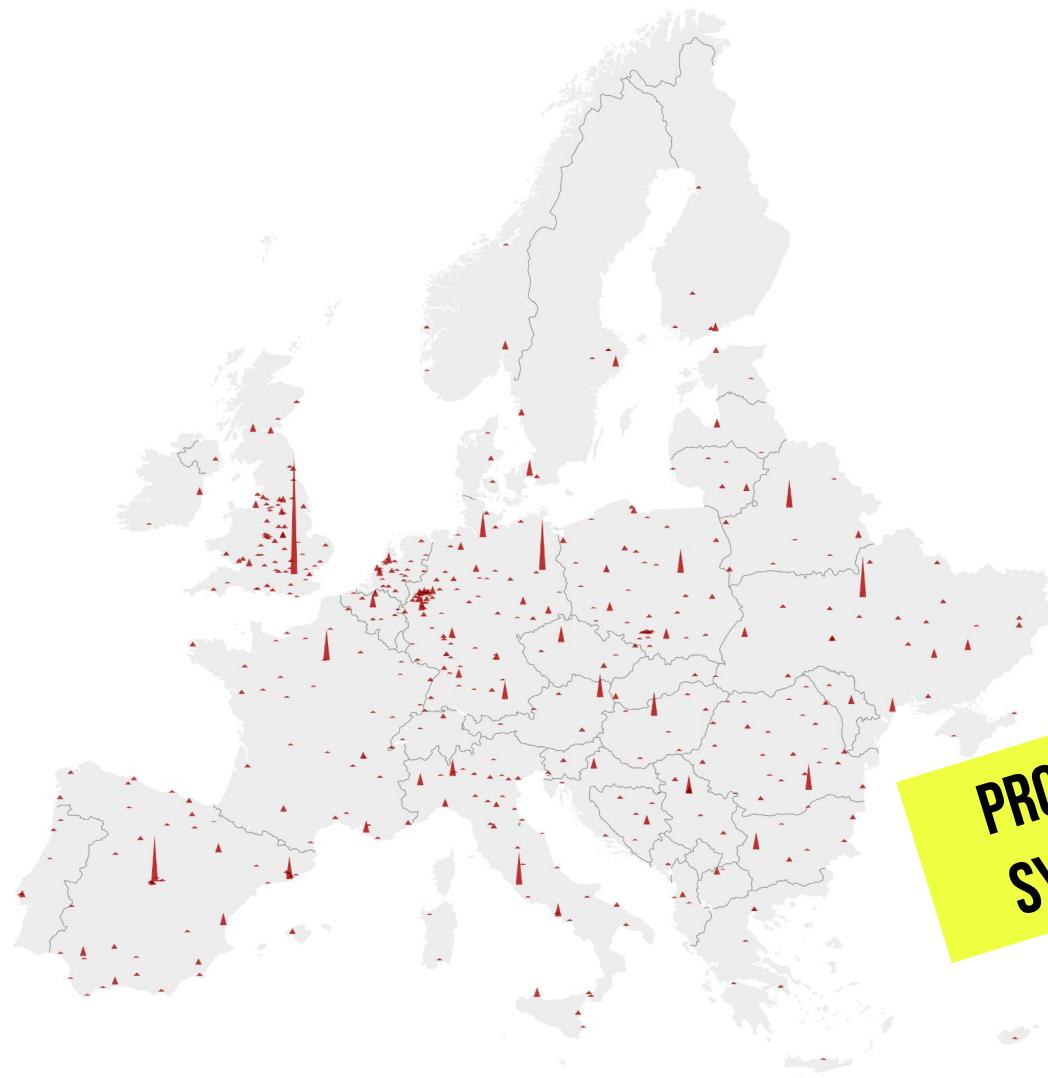
85.2 years



CHOROPLETH MAP



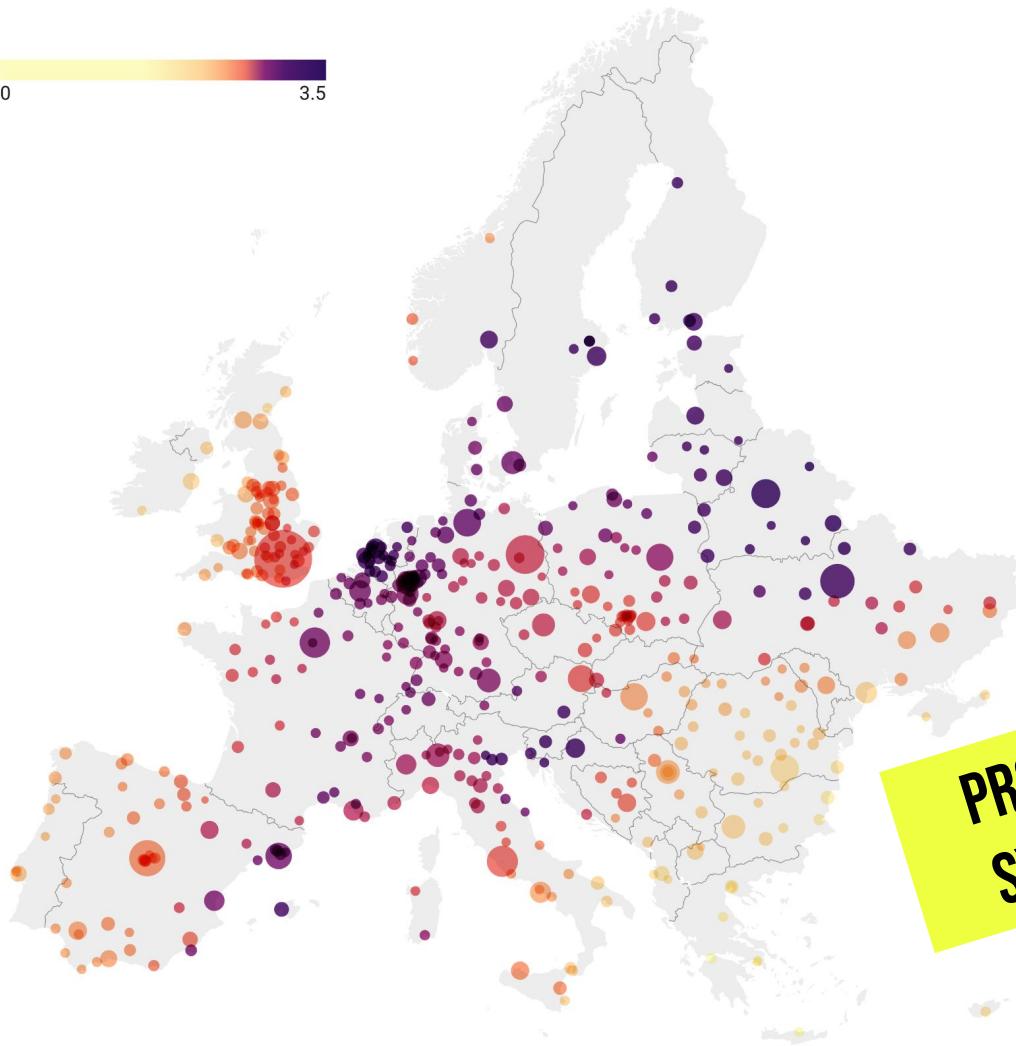
**PROPORTIONAL  
SYMBOLS MAP**



**PROPORTIONAL  
SYMBOLS MAP**

0

3.5



**PROPORTIONAL  
SYMBOLS MAP**

# US Presidential Election 2020

Results mapped at county level showing the candidate with the largest vote share in each area

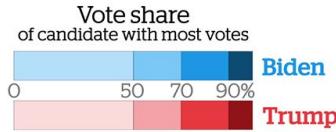
## Preliminary results\*

**Biden**

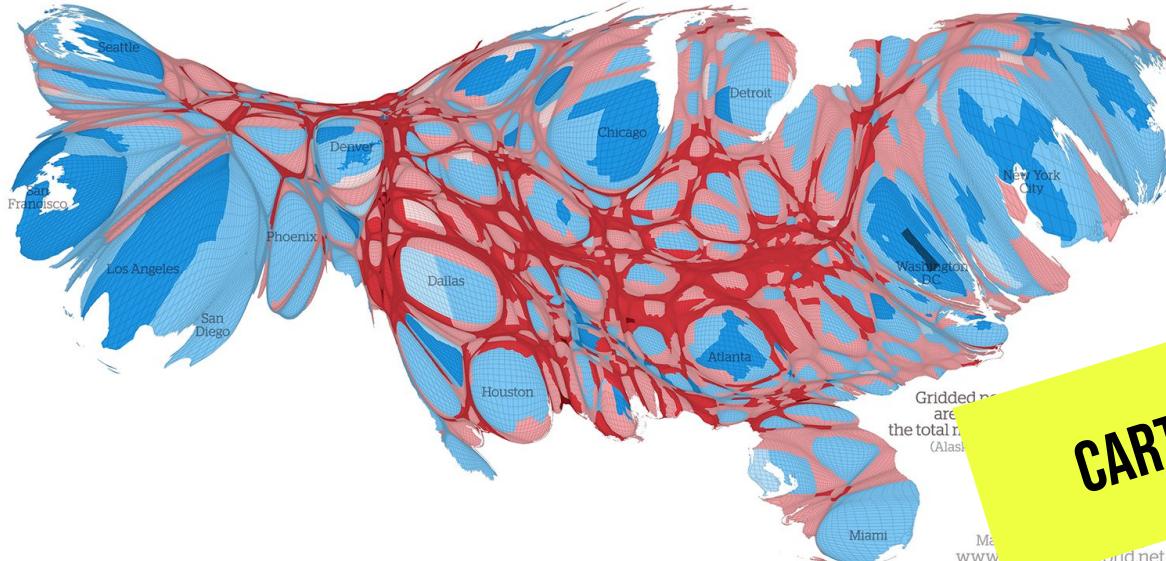
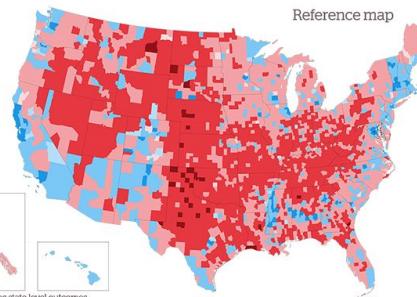
78,780,121 votes (50.9%)  
306 electoral votes

**Trump**

73,163,140 votes (47.3%)  
232 electoral votes



\* not confirmed final result, last updated 16. Nov 2020  
Source: <https://github.com/favstats/USElection2020-NYT-Results/>



CARTOGRAM

Obama  
ELECTORAL VOTES  
**243**

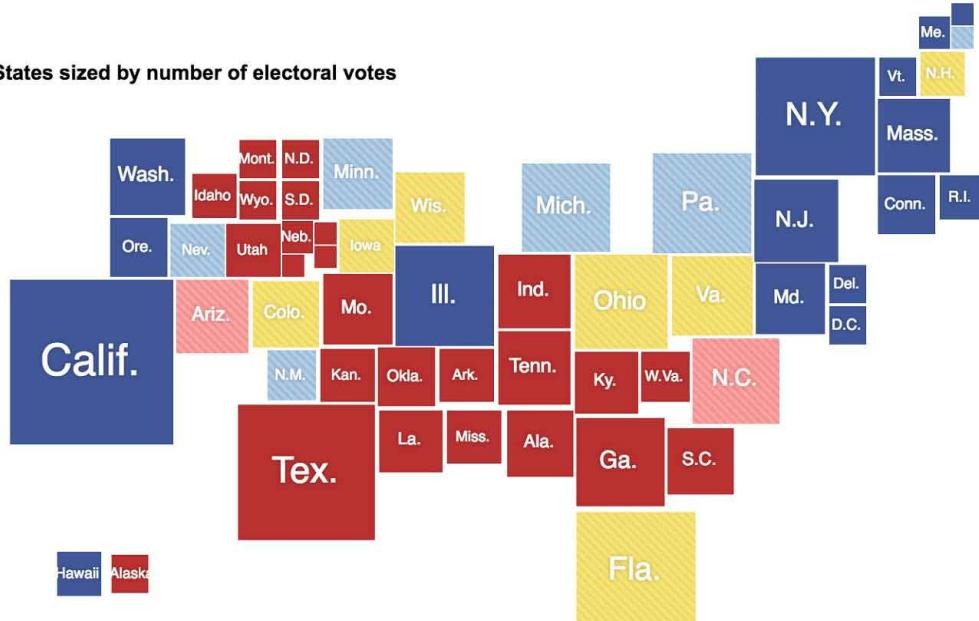
Needs 27  
to win

Romney  
ELECTORAL VOTES  
**206**

Needs 64  
to win



States sized by number of electoral votes

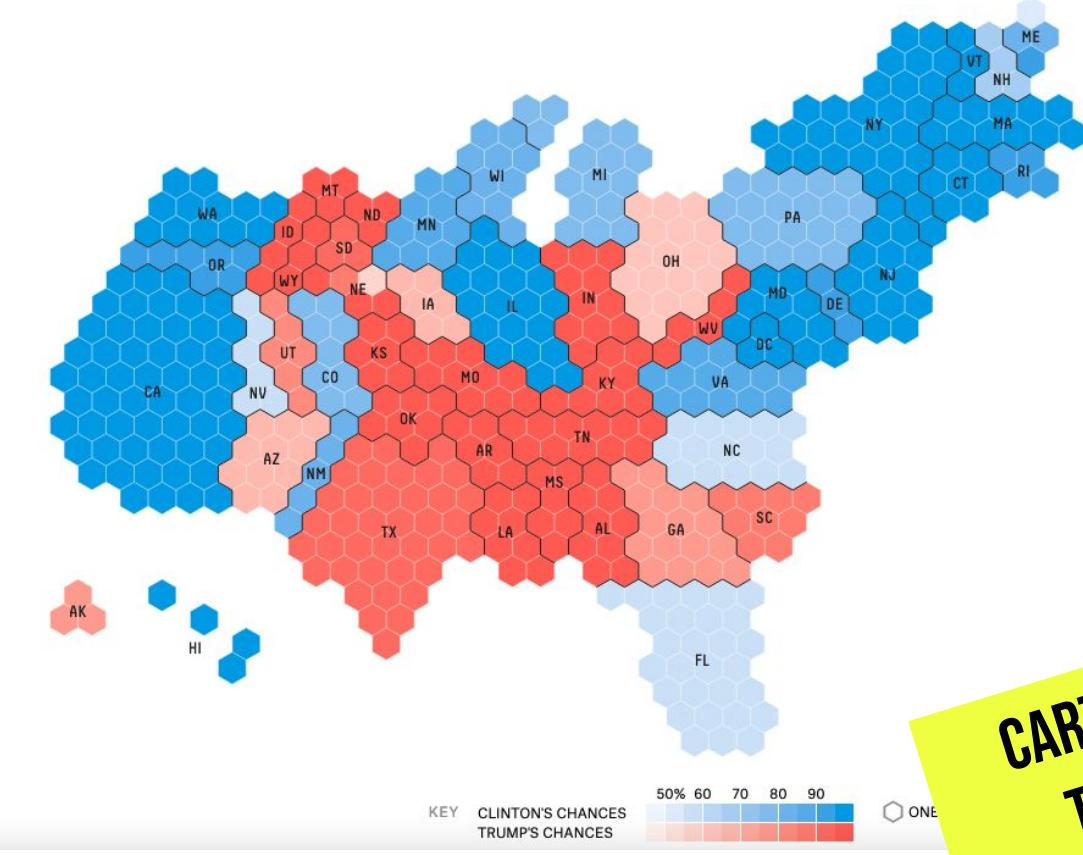


Maine and Nebraska give two electoral votes to the statewide winner and allocate the rest by congressional district.

Geographic View



CARTOGRAM



Who will win the presidency? 2016 Election forecast • FiveThirtyEight

CARTOGRAM /  
TILEGRAM

## GEODATA-SPECIFIC TOOLS



# CHOROPLETH MAP

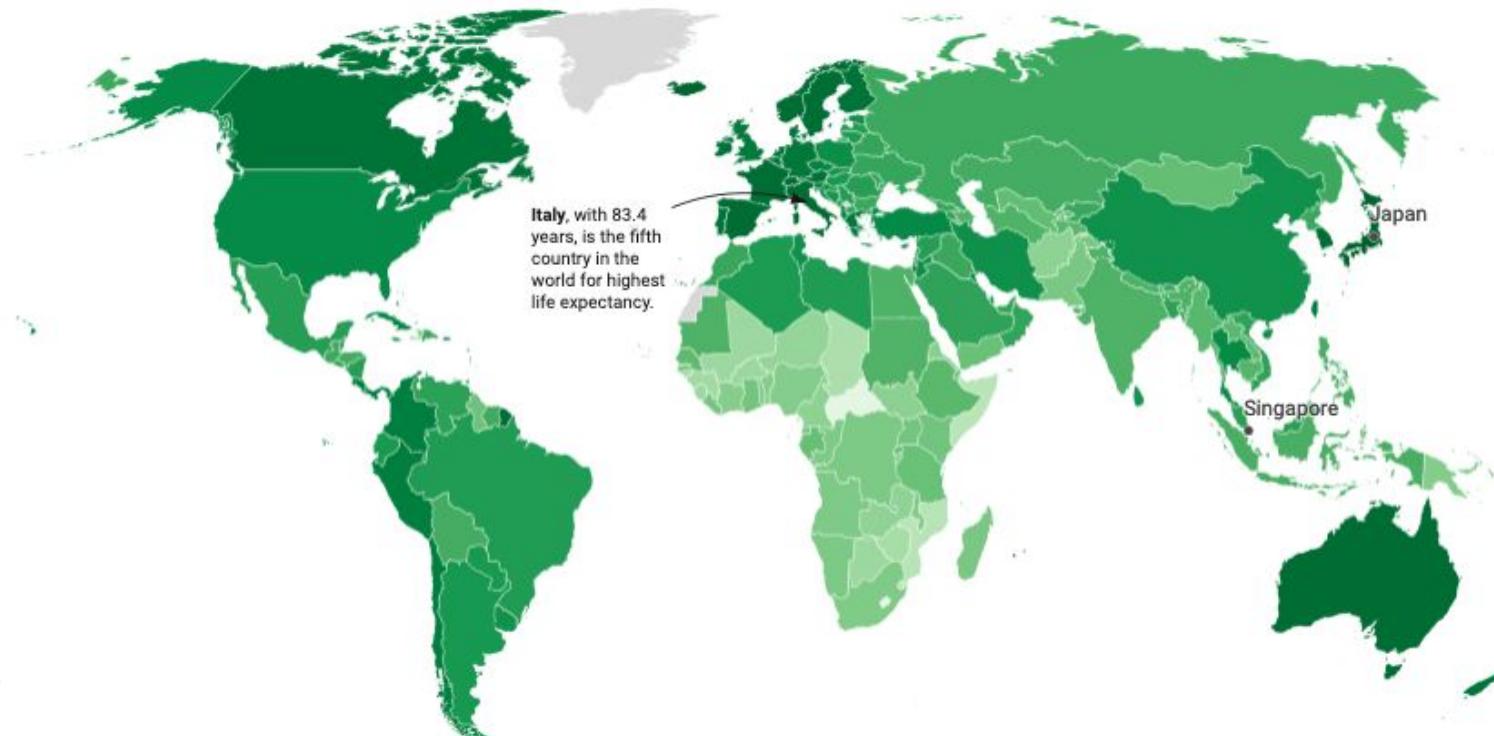
# Japan and Singapore have the highest life expectancy in the world

Based on 2021 data. Iceland, Switzerland and Italy follow in the ranking.

average years of life expectancy

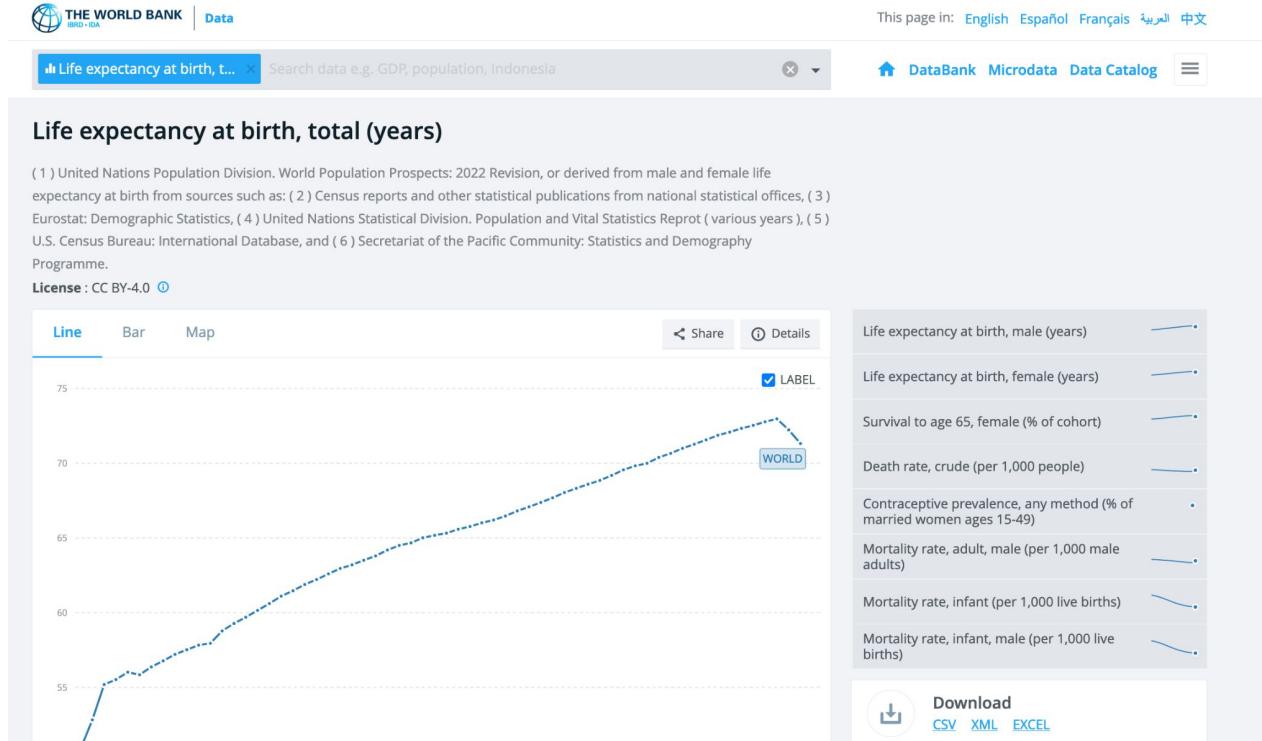
53

85



# FIND THE DATA

THE WORLD BANK LIFE EXPECTANCY • [Source](#)



# PREPARE THE DATA

THE WORLD BANK LIFE EXPECTANCY • [GSheet](#)

	A	B	C	D	E	
1	country	year	life expectancy	region		
2	Japan	2021	85.1	Asia & Pacific		
3	Singapore	2021	85.1	Asia & Pacific		
4	Hong Kong, Chi	2021	84.7	Asia & Pacific		
5	Iceland	2021	84.4	Europe		
6	Switzerland	2021	84.3	Europe		
7	Italy	2021	83.4	Europe		
8	Spain	2021	83.3	Europe		
9	Israel	2021	83.3	Europe		
10	South Korea	2021	83.2	Asia & Pacific		
11	Australia	2021	83.2	Asia & Pacific		
12	Norway	2021	83.2	Europe		
13	Luxembourg	2021	83.2	Europe		
14	France	2021	83.1	Europe		
15	Sweden	2021	83.1	Europe		
16	Malta	2021	82.9	Europe		
17	Canada	2021	82.5	North America		
18	Austria	2021	82.4	Europe		
19	Ireland	2021	82.3	Europe		

# SELECT THE BASE MAP

THE WORLD BANK LIFE EXPECTANCY • [Dataviz](#)

1 Select your map    2 Add your data ✓    3 Visualize ✓    4 Publish & Embed ✓

 Choropleth map Proceed →

What type of map do you want to create?

 or Upload Map

World  
 Africa  
 Europe  
 Latin America  
 Middle East  
 North America  
 Oceania  
 Asia  
 South America  
 Mediterranean Sea





# IMPORT THE DATA

THE WORLD BANK LIFE EXPECTANCY • [Dataviz](#)

1 Select your map ✓

2 Add your data

3 Visualize ✓

4 Publish & Embed ✓



Now your map needs data!

We prefilled the table with Name keys.

You can start **adding your values** or **upload your own file**.

Upload

Match

Check ▲

Upload a file (CSV or Excel)

You can also simply drop it here

Upload file

OR

First row as label

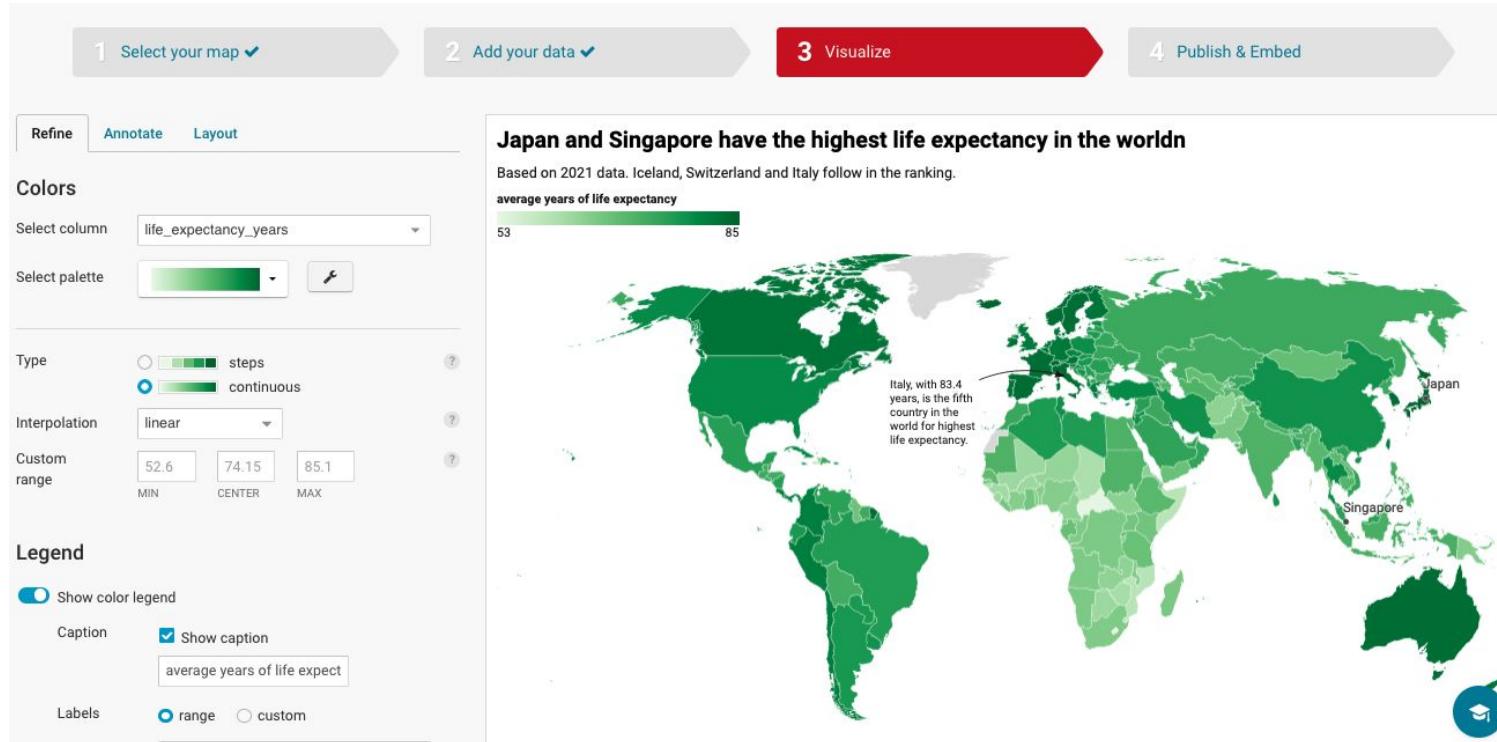


Search data table

	A country	B year	C life_expectancy_years	D region
1	Japan	2021	85.1	Asia & Pacific
2	Singapore	2021	85.1	Asia & Pacific
3	Hong Kong	2021	84.7	Asia & Pacific
4	Iceland	2021	84.4	Europe
5	Switzerland	2021	84.3	Europe
6	Italy	2021	83.4	Europe
7	Spain	2021	83.3	Europe
8	Israel	2021	83.3	Europe
9	South Korea	2021	83.2	Asia & Pacific
10	Australia	2021	83.2	Asia & Pacific
11	Norway	2021	83.2	Europe
12	Luxembourg	2021	83.2	Europe
13	France	2021	83.1	Europe
14	Sweden	2021	83.1	Europe
15	Malta	2021	82.9	Europe
16	Canada	2021	82.5	North America

# FORMAT THE MAP

THE WORLD BANK LIFE EXPECTANCY • [Dataviz](#)



# DESCRIBE THE MAP

THE WORLD BANK LIFE EXPECTANCY • [Dataviz](#)

1 Select your map ✓    2 Add your data ✓    3 Visualize    4 Publish & Embed

Refine    Annotate    Layout

Title  hide  
Japan and Singapore have the highest life expectancy in the worldn

Description  
Based on 2021 data. Iceland, Switzerland and Italy follow in the ranking.

Notes

Data source    Link to data source  
World Bank <https://...>

Byline  
Who created the chart?

Alternative description for screen readers ?  
Describe the presented information for readers who can't see the visualization

Map labels

**Japan and Singapore have the highest life expectancy in the worldn**

Based on 2021 data. Iceland, Switzerland and Italy follow in the ranking.

average years of life expectancy

Italy, with 83.4 years, is the fifth country in the world for highest life expectancy.

Japan

Singapore

Graduation cap icon

# PUBLISH THE MAP

THE WORLD BANK LIFE EXPECTANCY • [Dataviz](#)

1 Select your map ✓    2 Add your data ✓    3 Visualize ✓    4 Publish & Embed

sh visualization

Congrats! Your visualization is successfully published. You can now share or embed it.

[Republish](#)

You can always [unpublish](#).

Link to your visualization:

<https://datawrapper.dwcdn.net/h1Je0/1/> [Copy](#)

Visualization only  For sharing

Embed code for your visualization:

```
<iframe title="Japan and Singapore have the highest life expectancy in the world" ...>
```

[Copy](#)

Responsive iframe  Iframe

New: Embed with script

For the best way to embed your visualization on a specific platform (e.g., Wordpress, Powerpoint), [check our documentation](#)

**Japan and Singapore have the highest life expectancy in the world**

Based on 2021 data. Iceland, Switzerland and Italy follow in the ranking.

average years of life expectancy

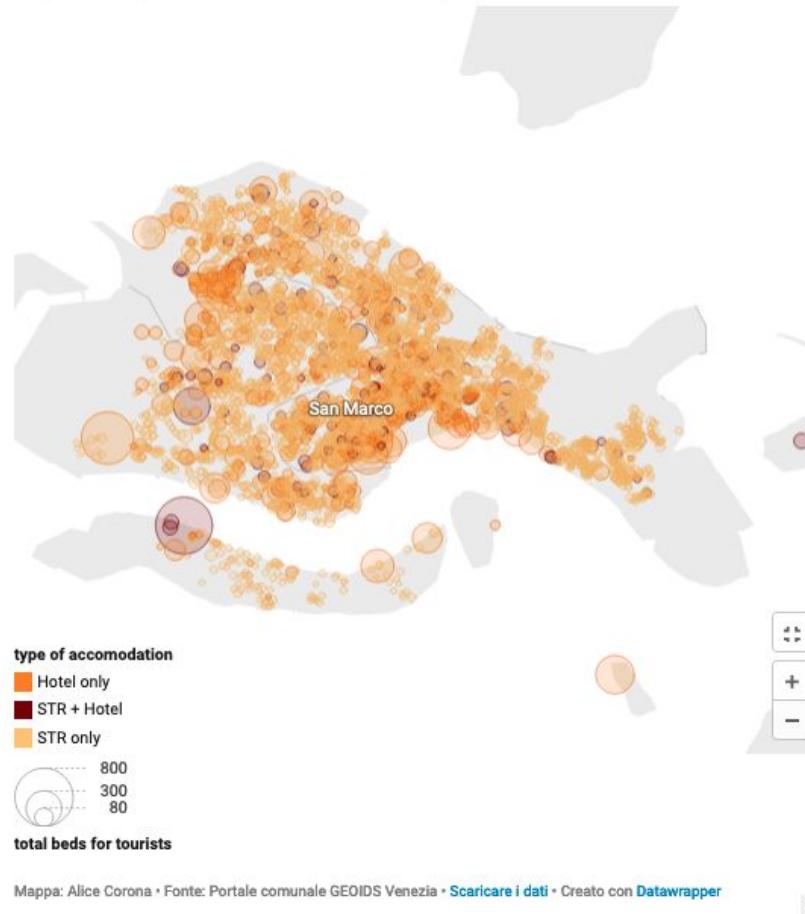
Italy, with 83.4 years, is the fifth country in the world for highest life expectancy.

Singapore

# PROPORTIONAL SYMBOLS MAP

## Venice hotels and short-term rentals

Map of buildings in Venice with a short-term rental (STR) and/or hotel



# FIND THE DATA

PORTALE GEOIDS VENEZIA + PORTALE OPEN DATA VENEZIA • [Source1](#) e [Source2](#)



SIT - Imposta Di Soggiorno (IDS)

Città di Venezia   

Opzioni... 

Contenuti del portale

Attraverso questo portale puoi trovare e localizzare sulla mappa le strutture ricettive (alberghi, B&B, appartamenti etc.) [aggiornate al giorno precedente](#).

Sono visibili informazioni di base sulle singole strutture e sono presenti solo quelle conosciute all' Ufficio Tributi comunale in quanto si sono registrate al portale per l' Imposta di Soggiorno. Ogni struttura è identificata con un pallino colorato a seconda della tipologia e cliccandoci con il mouse potrai verificare le informazioni relative che ti permetteranno di contattarla, di verificare l'imposta di soggiorno dovuta per il pernottamento .

Questo strumento cartografico permette anche di [estrarre](#) liste di strutture ricettive e di effettuare statistiche.

Nel caso tu conosca strutture ricettive non presenti sulla nostra mappa ti chiediamo di

 SIT - Imposta Di Soggiorno  Livelli della Mappa  Mappe ...   0 0.5 1km  1500



## Dati urbanistica

Nome	
	<a href="#">Livello superiore</a>
	<a href="#">Strato00_Info_geodetiche_fotogrammetriche</a>
	<a href="#">Strato01_Viabilita_Mobilita_Trasporti</a>
	<a href="#">Strato02_Immobili_Antropizzazioni</a>
	<a href="#">Strato03_GestioneViabilita_Indirizzi</a>
	<a href="#">Strato04_Idrografia</a>
	<a href="#">Strato05_Orografia</a>
	<a href="#">Strato06_Vegetazione</a>

# PREPARE THE DATA

PORTALE GEODIS VENEZIA + PORTALE OPEN DATA VENEZIA • GSheet e GEOJSON

	A	B	C	D	E	F	G
1	address	lat	long	type	total structures	total beds	
2	CANNAREGIO,2606/B	45.44529576	12.33077539	STR + Hotel	3	56	
3	DORSODURO,3489	45.43514089	12.32093472	STR + Hotel	2	295	
4	GIUDECCA (VENEZIA),810	45.42826544	12.32028697	STR + Hotel	2	762	
5	ISOLA LA CERTOSA,1	45.43310723	12.37100571	STR + Hotel	6	41	
6	ISOLA SAN CLEMENTE,1	45.4120381	12.33502976	STR + Hotel	5	423	
7	SAN MARCO,5264	45.43730377	12.33719421	STR + Hotel	3	19	
8	CASTELLO,3608	45.43484347	12.34674595	STR + Hotel	11	74	
9	SAN POLO,240/A	45.43936477	12.33460768	STR + Hotel	5	59	
10	CANNAREGIO,1082	45.44464671	12.32393009	STR + Hotel	2	15	
11	CANNAREGIO,1150	45.44474811	12.32558159	STR + Hotel	3	10	
12	CANNAREGIO,1314	45.44389237	12.32607379	STR + Hotel	3	20	
13	CANNAREGIO,1373	45.44381857	12.32765434	STR + Hotel	4	22	
14	CANNAREGIO,1449/A	45.44515909	12.32788542	STR + Hotel	3	12	
15	CANNAREGIO,1633	45.44292213	12.32731202	STR + Hotel	2	10	
16	CANNAREGIO,2010	45.4432899	12.32983062	STR + Hotel	2	8	
17	CANNAREGIO,2286	45.44229211	12.33238714	STR + Hotel	2	21	
18	CANNAREGIO,2438	45.44363207	12.33250104	STR + Hotel	2	7	
19	CANNAREGIO,283	45.44310858	12.32463552	STR + Hotel	6	49	
20	CANNAREGIO,3143/G	45.44737666	12.32656594	STR + Hotel	11	57	
21	CANNAREGIO,3495	45.44680246	12.33095005	STR + Hotel	2	7	
22	CANNAREGIO,3904/A	45.441752	12.33477766	STR + Hotel	2	6	
23	CANNAREGIO,4284/B	45.44056347	12.33514378	STR + Hotel	3	4	
24	CANNAREGIO,4607	45.44027000	12.32760005	STR + Hotel	0	0	

# SELECT THE BASE MAP

PORTALE GEODIS VENEZIA + PORTALE OPEN DATA VENEZIA • [Dataviz](#)

1 Select your map

2 Add your data ✓

3 Visualize ✓

4 Publish & Embed

## Symbol map

Uploaded file: quartieri.geojson

You can see your uploaded map on the right. In case it looks different from what you expected, please refer to the [Datawrapper Academy article on custom maps](#). You can re-upload your map once you have modified it to match the requirements.

Additional options (advanced)

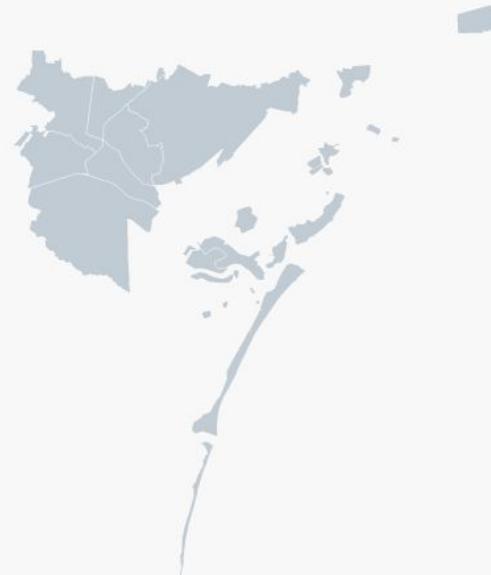
The options are described in the [Academy article on custom maps](#).

Projection:

Azimuthal Equal Area ▾

[← Delete map and return to map list](#)

[Proceed →](#)



# IMPORT THE DATA

PORTALE GEODIS VENEZIA + PORTALE OPEN DATA VENEZIA • [Dataviz](#)

1 Select your map ✓      2 Add your data      3 Visualize ✓      4 Publish & Embed



First row as label

	A Address / Place	B Lat	C Lon	D	E	F
1	address	lat	long	classification	total structures	
2	CANNAREGIO, 10	45,439427	12,31994	solo locazione	1	
3	CANNAREGIO, 1000/A	45,445532	12,32263	solo locazione	1	
4	CANNAREGIO, 1001	45,445595	12,322671	solo locazione	1	
5	CANNAREGIO, 1002	45,44571	12,322745	solo locazione	1	
6	CANNAREGIO, 1003	45,445794	12,322649	solo locazione	1	
7	CANNAREGIO, 1003/A	45,44583	12,322824	solo locazione	2	
8	CANNAREGIO, 1005/A	45,445826	12,322833	solo locazione	1	
9	CANNAREGIO, 1012	45,445493	12,322622	solo locazione	1	
10	CANNAREGIO, 1018	45,44526	12,322482	no locazione	1	
11	CANNAREGIO, 102	45,442103	12,321714	solo locazione	1	
12	CANNAREGIO, 103/A	45,442039	12,321806	no locazione	1	
13	CANNAREGIO, 1039	45,445108	12,323138	solo locazione	1	
14	CANNAREGIO, 1039/A	45,44513	12,323156	solo locazione	1	
15	CANNAREGIO, 1045/A	45,445722	12,323142	no locazione	1	
16	CANNAREGIO, 105	45,441959	12,32192	solo locazione	5	
17	CANNAREGIO, 1050	45,445502	12,323245	solo locazione	1	

Now your map needs data!

You can start adding symbols to your map by searching for a place. Or upload a data set below with addresses or coordinates.

Search for a place or address.

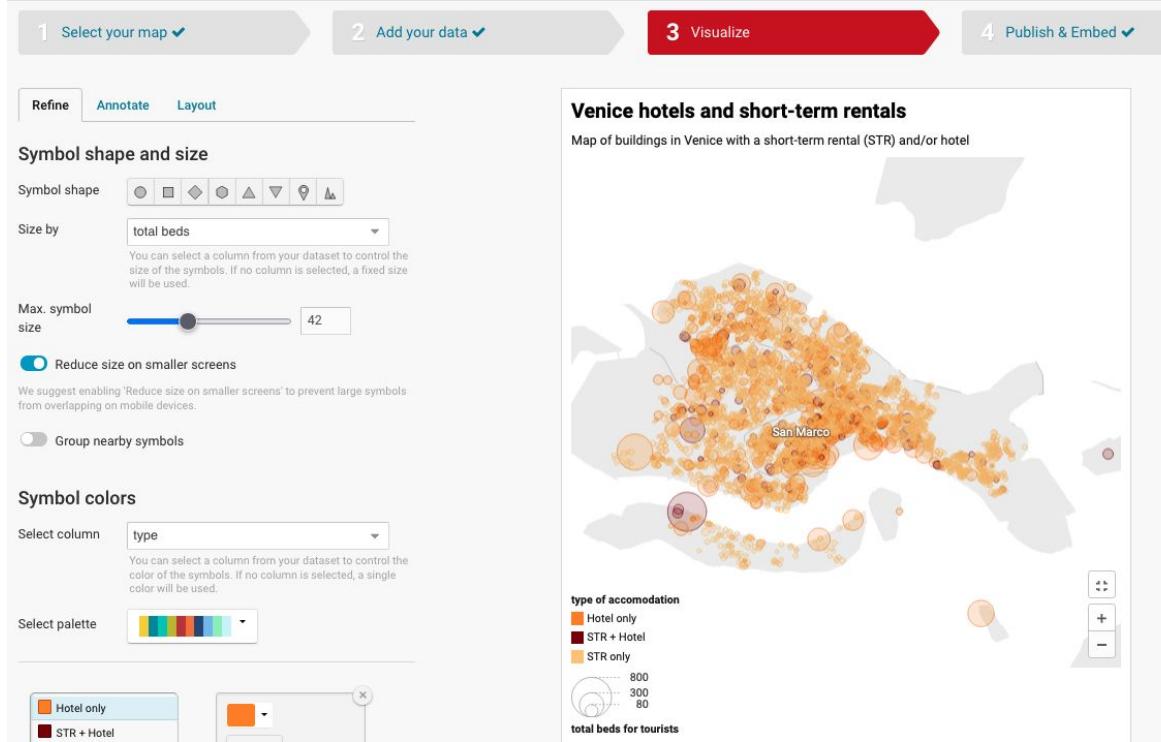
We tried to match your data. Y The coordinates columns are source.

[Upload](#) CSV [Match](#) [Check](#) ✓

Upload a file (CSV or Excel)

# FORMAT THE MAP

PORTALE GEODIS VENEZIA + PORTALE OPEN DATA VENEZIA • [Dataviz](#)



# DESCRIBE THE MAP

PORTALE GEOIDS VENEZIA + PORTALE OPEN DATA VENEZIA • [Dataviz](#)

1 Select your map ✓    2 Add your data ✓    3 Visualize    4 Publish & Embed ✓

[Refine](#)   [Annotate](#)   [Layout](#)

Title  hide  
Venice hotels and short-term rentals

Description  
Map of buildings in Venice with a short-term rental (STR) and/or hotel

Notes

Data source   [Link to data source](#)  
Portale comunale GEOIDS Venezia   <https://...>

Byline  
Alice Corona

Alternative description for screen readers ⓘ  
Describe the presented information for readers who can't see the visualization

Map labels

**Venice hotels and short-term rentals**  
Map of buildings in Venice with a short-term rental (STR) and/or hotel

**type of accommodation**

- Hotel only
- STR + Hotel

# PUBLISH THE MAP

PORTALE GEODIS VENEZIA + PORTALE OPEN DATA VENEZIA • [Dataviz](#)

1 Select your map ✓

2 Add your data ✓

3 Visualize ✓

4 Publish & Embed

## Publish visualization



Congrats! Your visualization is successfully **published**. You can now share or embed it.

Republish

You can always [unpublish](#).

## Share & Embed

[Link to your visualization:](#)



[https://www.datawrapper.de/\\_4lisy/](https://www.datawrapper.de/_4lisy/)



Visualization only  For sharing



**Embed code** for your visualization:

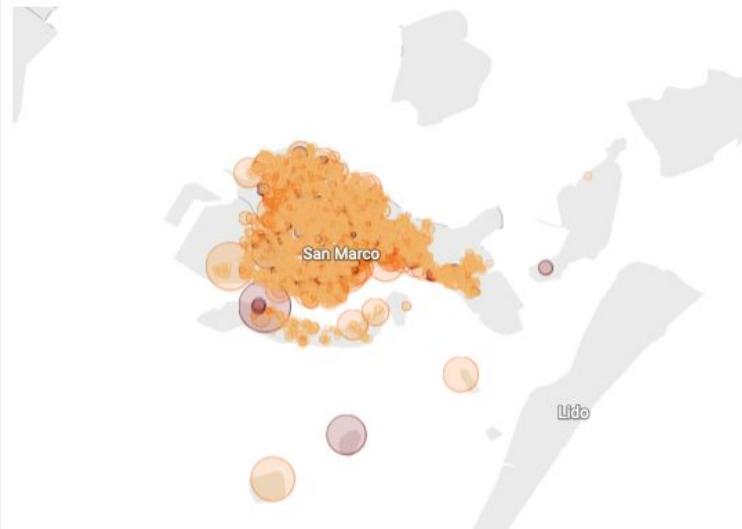
```
</> <iframe title="Venice hotels and short-term rentals" aria-l ...
```



Responsive iframe  Iframe  
 New: Embed with script

## Venice hotels and short-term rentals

Map of buildings in Venice with a short-term rental (STR) and/or hotel

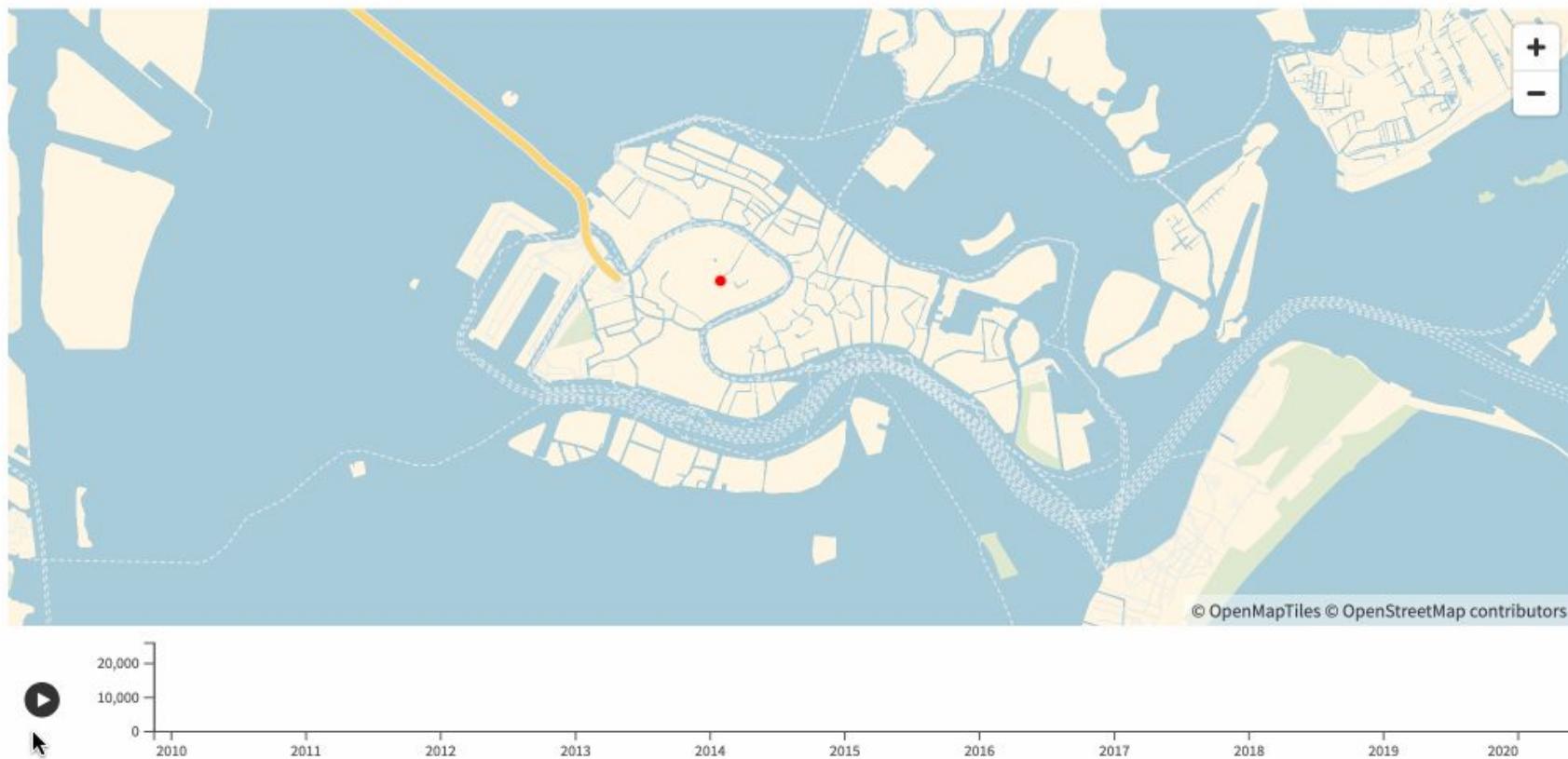


# ANIMATED PROPORTIONA L SYMBOLS MAP

# The Growth of Airbnb in Venice

Most of the Airbnb listings are for **entire apartments**.

The following chart shows Airbnb listings in Venice. One point is one listing. Each point is sized according to the number of people that Airbnb can accomodate and it is colored in red if it is a listing for an entire apartment. The points appear and disappear based on the first and last review received by each listing. A listing for an entire apartment that is constantly reviewed is a house subtracted to students and residents and contributes to rising house prices.



# FIND THE DATA

INSIDE AIRBNB • [Source](#)

**Inside Airbnb** [Data](#) [About](#) [Support](#) [Organise](#) [Donate!](#)  
Adding data to the debate

(generally quarterly data for the last 12 months. For additional data, make an archived [data request](#).)

## Bologna, Emilia-Romagna, Italy

13 September, 2023 ([Explore](#))

Country/City	File Name	Description
Bologna	<a href="#">listings.csv.gz</a>	Detailed Listings data
Bologna	<a href="#">calendar.csv.gz</a>	Detailed Calendar Data
Bologna	<a href="#">reviews.csv.gz</a>	Detailed Review Data
Bologna	<a href="#">listings.csv</a>	Summary information and metrics for listings in Bologna (good for visualisations).
Bologna	<a href="#">reviews.csv</a>	Summary Review data and Listing ID (to facilitate time based analytics and visualisations linked to a listing).
Bologna	<a href="#">neighbourhoods.csv</a>	Neighbourhood list for geo filter. Sourced from city or open source GIS files.
Bologna	<a href="#">neighbourhoods.geojson</a>	GeoJSON file of neighbourhoods of the city.

[show archived data](#)  
(generally quarterly data for the last 12 months. For additional data, make an archived [data request](#).)

# PREPARE THE DATA

INSIDE AIRBNB • GSheet

	A	B	C	D	E	F	G	H	I	J
1	name	host_name	neighbourhood	latitude	longitude	room_type	accommodates	first_review	last_review	
2	Venice Blue on Canal Grande	Francesca	San Polo	45.43823	12.32902	Entire home/apt	4	15/11/2009	06/11/2019	
3	Venice home to stay	Francesca	San Polo	45.43827	12.32764	Entire home/apt	4	22/04/2010	07/10/2019	
4	Charming room in Gianni's flat	Gianni	San Marco	45.43221	12.33411	Private room	4	07/08/2010	21/02/2020	
5	LOVELY APARTMENT Elisa	Elisa	Cannaregio	45.44448	12.33121	Entire home/apt	4	05/09/2010	13/10/2019	
6	Furlani Loft for 2	Laura	Castello	45.43854	12.34959	Entire home/apt	6	06/09/2010	03/11/2019	
7	Ca' Barba B&B: Alessandro	Alessandro	San Polo	45.43846	12.33235	Hotel room	2	24/09/2010	24/02/2020	
8	San Toma Apartment	Laura	San Polo	45.43723	12.32451	Entire home/apt	2	27/09/2010	10/11/2019	
9	Apartment Cà d'Laura		Cannaregio	45.44185	12.33355	Entire home/apt	2	11/10/2010	17/09/2019	
10	Bed and Breakfast Nicola	Nicola	Santa Croce	45.44059	12.32952	Hotel room	2	22/12/2010	26/01/2020	
11	B&B AL CANAL	Francesca	Giudecca	45.42708	12.31823	Private room	2	27/02/2011	16/03/2020	
12	Biennale - Great Irene		Castello	45.42978	12.35715	Entire home/apt	4	28/02/2011	25/02/2020	
13	Unique green ge	Diana	Castello	45.43006	12.35652	Private room	1	17/04/2011	23/02/2020	
14	Historical Luxury Marc & Elisabetta		Cannaregio	45.44754	12.32918	Entire home/apt	6	27/04/2011	04/01/2020	
15	Apartament alla Biennale	Furio	San Marco	45.43302	12.332	Entire home/apt	4	30/04/2011	15/09/2019	
16	Ca' Annalaura 2	Monica	Castello	45.43476	12.34999	Entire home/apt	3	04/05/2011	17/02/2020	
17	Campo San Giacomo	Valentina	Santa Croce	45.44085	12.32656	Entire home/apt	4	10/05/2011	23/02/2020	
18	Great canal view	Paola	Castello	45.43609	12.34786	Entire home/apt	2	11/05/2011	27/10/2019	
19	Lovely private room	Nicola	Castello	45.43305	12.3549	Private room	2	22/05/2011	23/02/2020	
20	Armonia Apartment	Guido	Cannaregio	45.44555	12.32155	Entire home/apt	4	01/06/2011	09/05/2019	
21	at Biennale Gianfranco	Luigi & Giovanni	Castello	45.43079	12.35641	Entire home/apt	4	03/06/2011	24/11/2019	

# IMPORT THE DATA

INSIDE AIRBNB • Dataviz

	A	B	C	D	E	F
1	name	host_name	neighbourhood_cleansed	latitude	longitude	room_type
2	Venice Blue on Canal apartment	Francesca	San Polo	45.43823	12.32902	Entire home/apt
3	Venice home to relax and emotions	Francesca	San Polo	45.43827	12.32764	Entire home/apt
4	Charming room with balcony close to S. Mark's	Gianni	San Marco	45.43221	12.33411	Private room
5	LOVELY APARTMENT IN THE CENTER	Elisa	Cannaregio	45.44448	12.33121	Entire home/apt
6	Furlani Loft for up to 6	Laura	Castello	45.43854	12.34959	Entire home/apt
7	Ca' Barba B&B: room n102 (jacuzzi shower)	Alessandro	San Polo	45.43846	12.33235	Hotel room
8	San Toma Apartment - Venice	Laura	San Polo	45.43723	12.32451	Entire home/apt
9	Apartment Cà d'Oro - Canal view	Laura	Cannaregio	45.44185	12.33355	Entire home/apt
10	Bed and Breakfast (Website hidden by Airbnb)	Nicola	Santa Croce	45.44059	12.32952	Hotel room
11	B&B AL CANAL VENICE canal view	Francesca	Giudecca	45.42708	12.31823	Private room
12	Biennale - Great & cosy flat	Irene	Castello	45.42978	12.35715	Entire home/apt
13	Unique green gem: private court, boat, concierge	Diana	Castello	45.43006	12.35652	Private room
14	Historical Luxury Apartment on Calm Sunny Canal	Marc & Elisabeth	Cannaregio	45.44754	12.32918	Entire home/apt

Preview Data

Regions Points Inset Map Regions

Upload data

Points

SELECT COLUMNS TO VISUALISE

Latitude (REQUIRED) D

Longitude (REQUIRED) E

Scale G

Color F

Start time H

The Growth of Airbnb in Venice  
Most of the Airbnb listings are for entire apartments.  
The following chart shows Airbnb listings in Venice. One point is one listing. Each point is sized according to the number of people that Airbnb can accommodate and it is colored in red if it is a listing for an entire apartment. The points appear to be distributed based on the location of the neighborhoods. The area around St. Mark's square and the Grand Canal seems to have more listings. This is probably due to tourists and residents and contributes to rising house prices.



# FORMAT THE DATA

INSIDE AIRBNB • Dataviz

SELECT COLUMNS TO VISUALISE

Latitude REQUIRED

D

Longitude REQUIRED

E

Scale ?

G

Color ?

F

Start time ?

H

End time ?

I

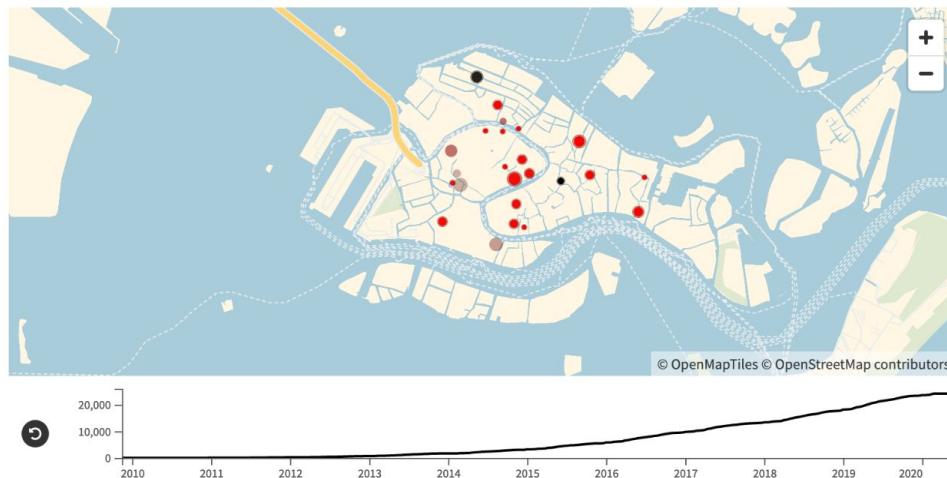
# FORMAT THE MAP

INSIDE AIRBNB • Dataviz

## The Growth of Airbnb in Venice

Most of the Airbnb listings are for **entire apartments**.

The following chart shows Airbnb listings in Venice. One point is one listing. Each point is sized according to the number of people that Airbnb can accomodate and it is colored in red if it is a listing for an entire apartment. The points appear and disappear based on the first and last review received by each listing. A listing for an entire apartment that is constantly reviewed is a house subtracted to students and residents and contributes to rising house prices.



Source: Inside Airbnb • Map by Alice Corona

A screenshot of a map configuration interface, likely from a data visualization tool. The interface includes a title "3D map v9.1.4", a "Base map" section, and various styling options. The "Map type" section has tabs for "Vector" (selected), "Raster", and "Projection". The "Map style" section includes a "Custom: Palette" dropdown and a "Customize layers" toggle. Below are two columns of styling options: "Ground" (light orange square), "Nature" (light green square), "Roads" (yellow square), "Text" (dark gray square), "Text outlines" (white square), and "State/national borders" (dark brown square). To the right are "Ocean" (blue square), "Buildings" (orange square), "Road outlines" (light blue square), "Text opacity" (0.6), "Outline opacity" (1), and a question mark icon.

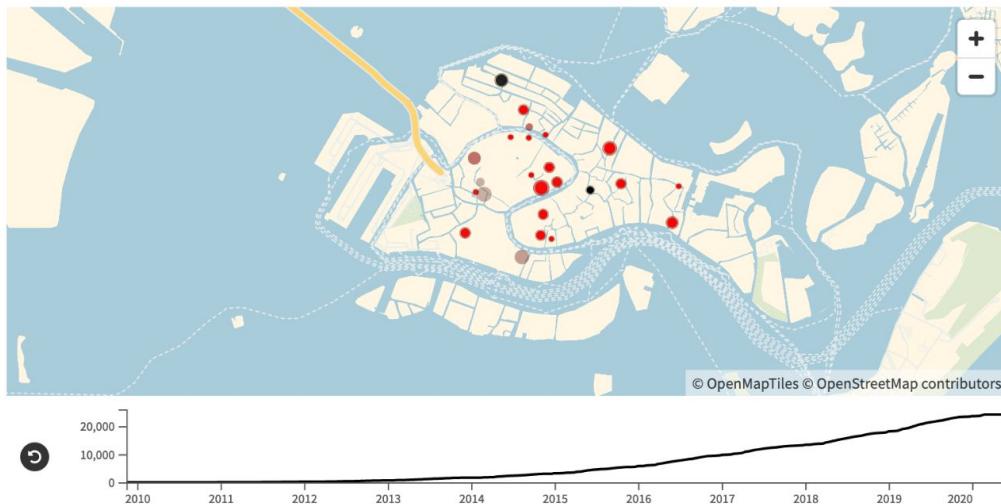
# DESCRIBE THE MAP

INSIDE AIRBNB • Dataviz

## The Growth of Airbnb in Venice

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Source: Inside Airbnb • Map by Alice Corona

Header

Alignment

TITLE

The Growth of Airbnb in Venice

Change title styles

SUBTITLE

Most of the Airbnb listings are for <b>entire apartments</b>

Change subtitle styles

Subtitle Font

Same as parent

Size

A A A ... 1.5

Weight

Bold Regular

Color

Line height

1.2

Space above

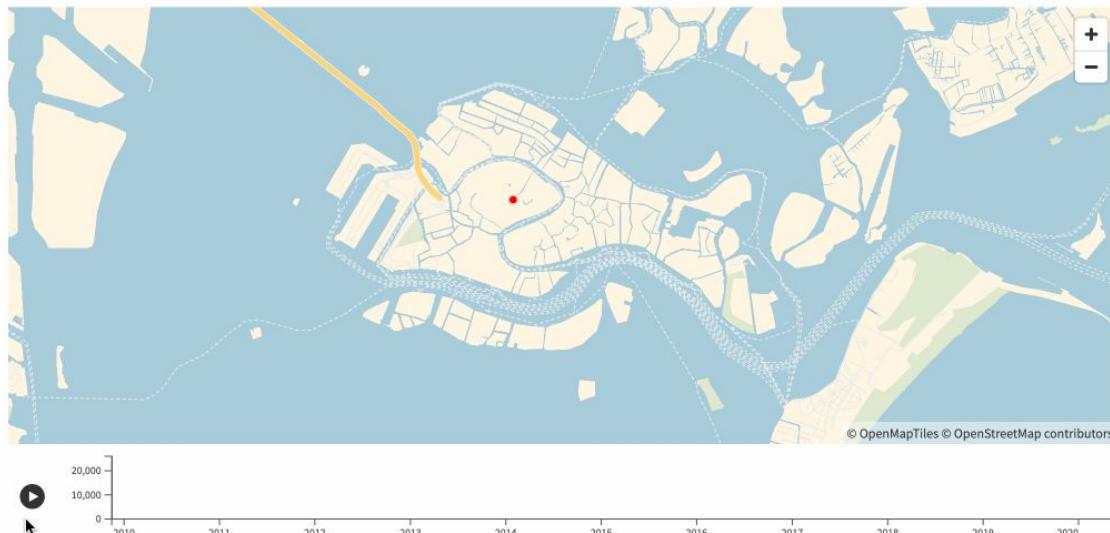
# PUBLISH THE MAP

INSIDE AIRBNB • Dataviz

## The Growth of Airbnb in Venice

Most of the Airbnb listings are for **entire apartments**.

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*exercise time!*

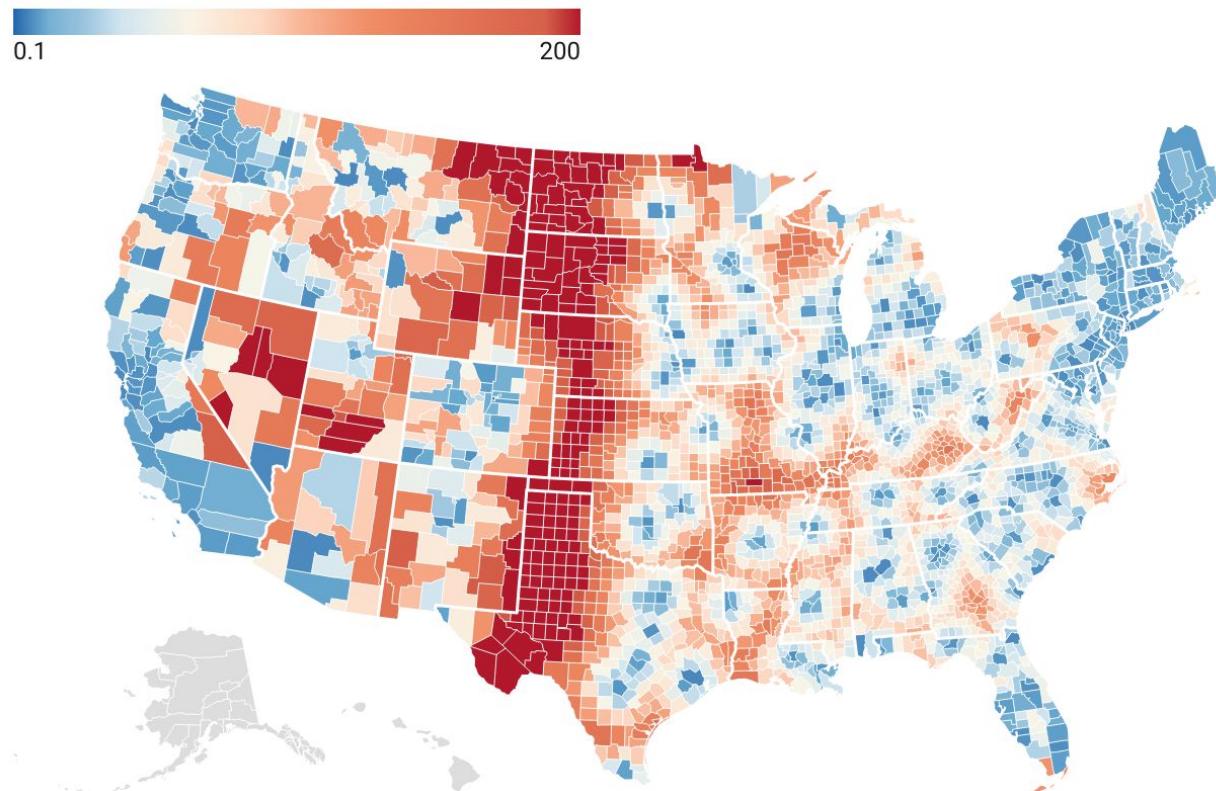
# Japan and Singapore have the highest life expectancy in the world

Based on 2021 data. Iceland, Switzerland and Italy follow in the ranking.

average years of life expectancy



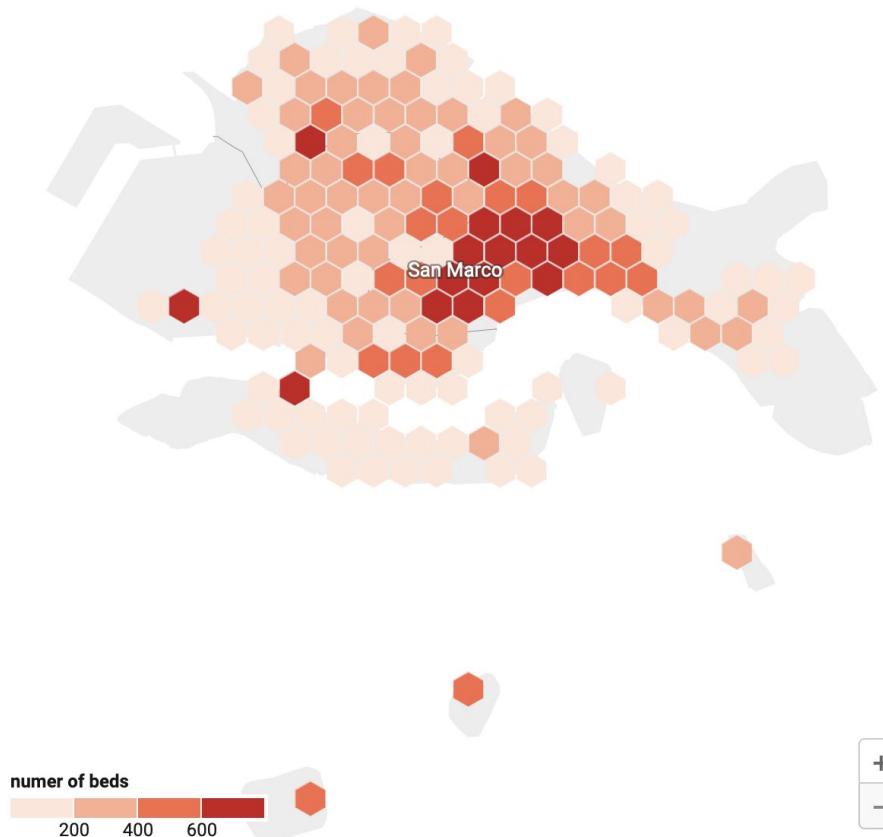
**Even before the overturn of Roe v. Wade, 1 in 5 women had to travel +50 miles to get to an abortion clinic**



Source: Myers Abortion Facility • Created with Datawrapper

# Venice hotels and short-term rentals

Map of buildings in Venice with a short-term rental (STR) and/or hotel



## Which European cities have gotten warmer...and which ones have gotten hotter

The map shows the regional warming since 1960, for selected European cities, as calculated by Berkeley Earth. The temperature change appears in °C/century: For all shown cities, Berkeley Earth doesn't compare the average temperature of only 1960 with the average temperature of only 2018, but the average temperatures calculated over a century. The circle size shows each cities' population.

