

TUG #4: CHRISTMAS EDITION

# A DATAVIZ JOURNEY



**Tristan  
Guillevin**

@ladataviz

Freelance



**1**

Why we visualize data

**2**

Build an efficient dashboard

**3**

The key to grow your skills

@ladataviz



# « What is your job? »

Mini-me

@ladataviz

**Information Designer**

**DataViz Engineer**

**Data Analyst**

**Data Scientist**

**Developer**

**Business Intelligence**

**Infographiste**

**@ladataviz**



**Information Designer**

**DataViz Engineer**

**Data Scientist**

**Developer**

**Business  
ence**

**Infographiste**

**@ladataviz**

« I transform

tables in graphics »

@ladataviz



**transform**



**tables in graphics**

Companies

You

« I help people

better understand

Quickly

More efficiently

Information »

Their data

Public data

@ladataviz



# « Why visualising data is helpful? »

Mini-me

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x	y
10	8,04
8	6,95
13	7,58
9	8,81
11	8,33
14	9,96
6	7,24
4	4,26
12	10,84
7	4,82
5	5,68

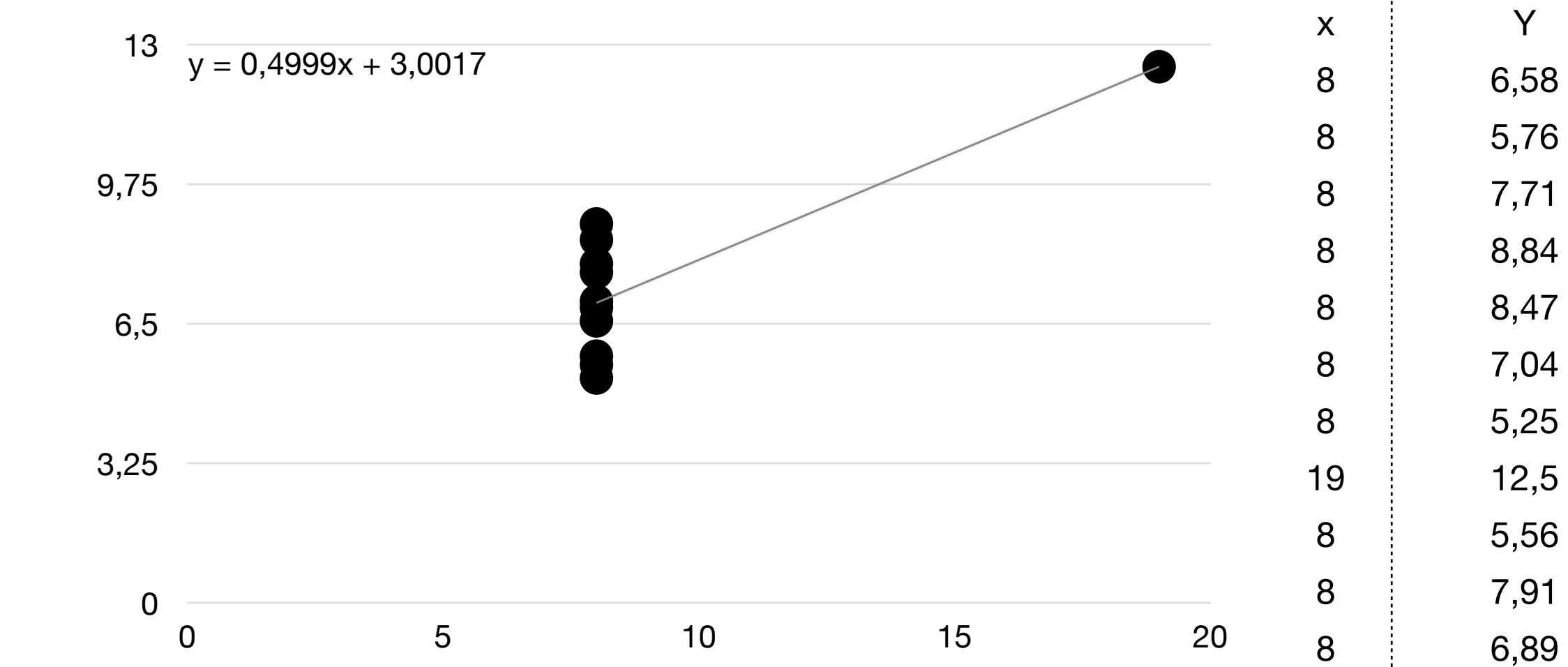
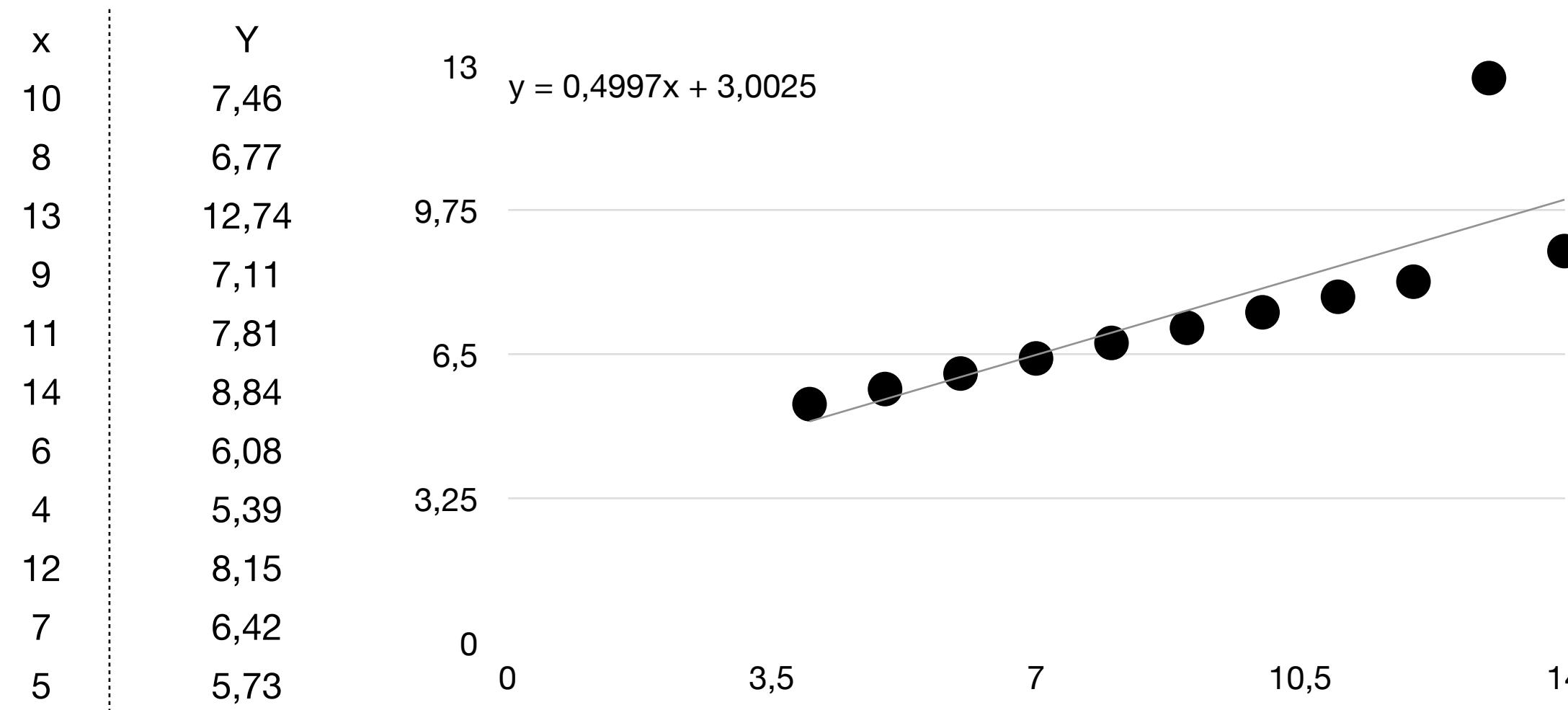
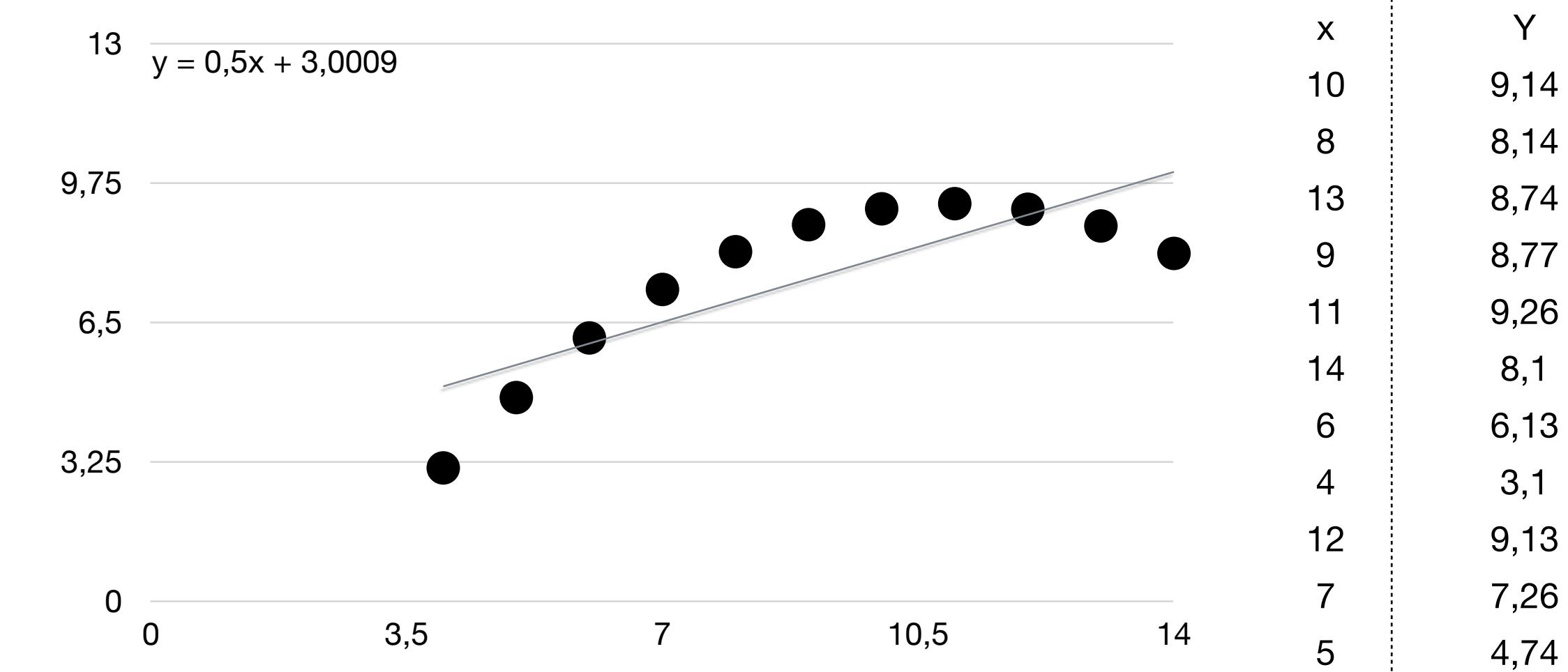
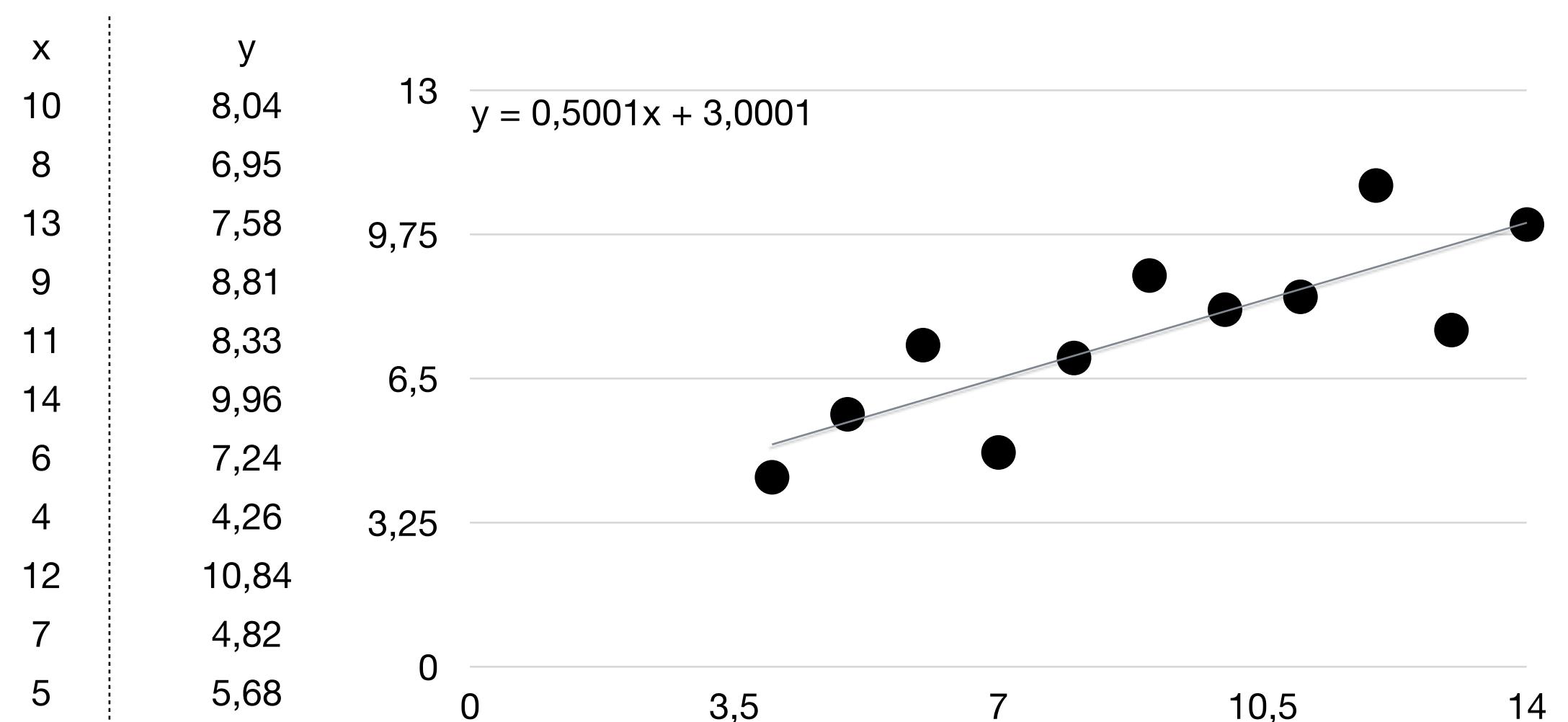
x	Y
10	9,14
8	8,14
13	8,74
9	8,77
11	9,26
14	8,1
6	6,13
4	3,1
12	9,13
7	7,26
5	4,74

Property	Value
X Mean	9,0
X Variance	10,0
Y Mean	7,5
Y Variance	3,75
X et Y correlation	0,816
Trend line	$y=3 + 0,5 x$

x	Y
10	7,46
8	6,77
13	12,74
9	7,11
11	7,81
14	8,84
6	6,08
4	5,39
12	8,15
7	6,42
5	5,73

x	Y
8	6,58
8	5,76
8	7,71
8	8,84
8	8,47
8	7,04
8	5,25
19	12,5
8	5,56
8	7,91
8	6,89

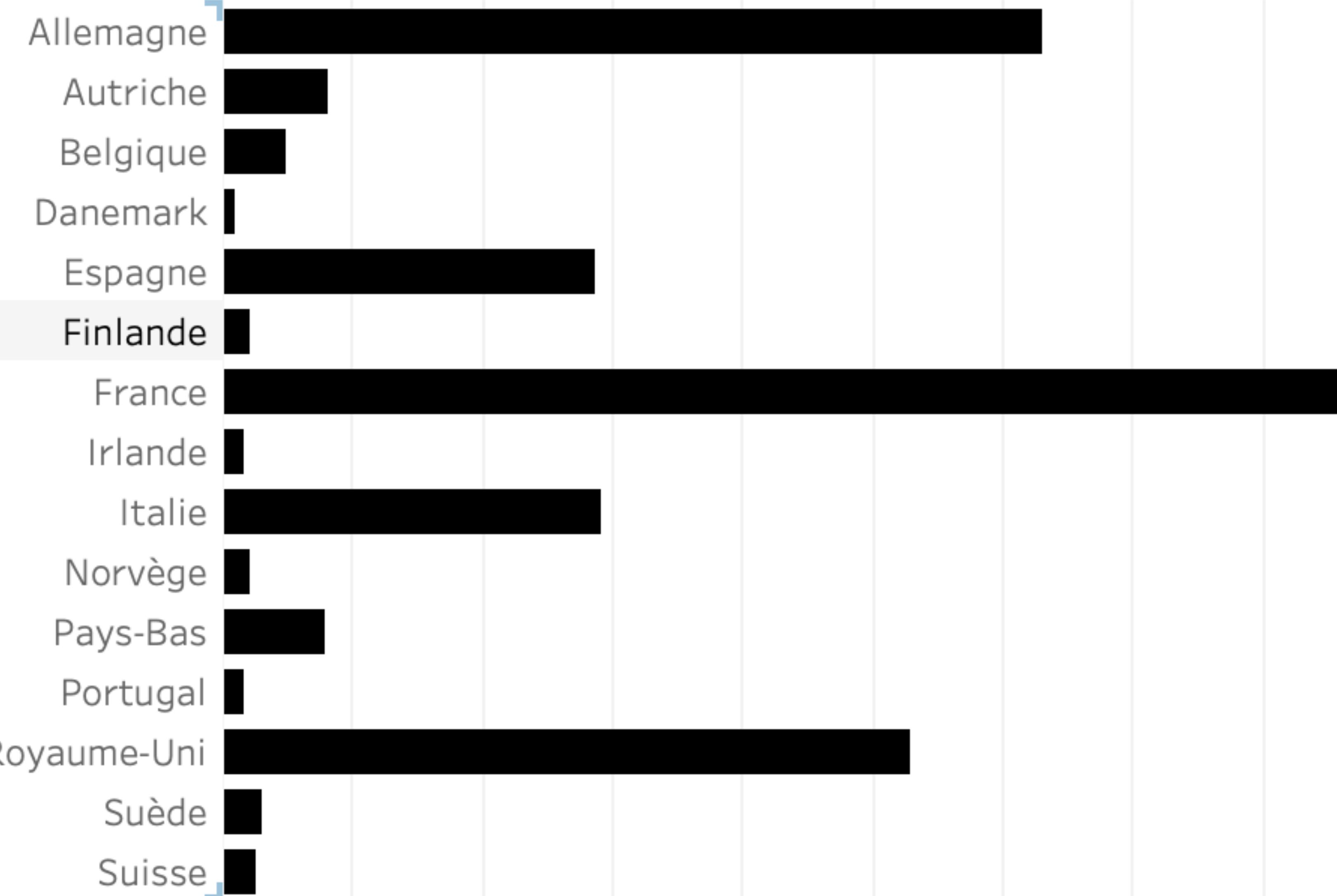
# Anscombe Quartet

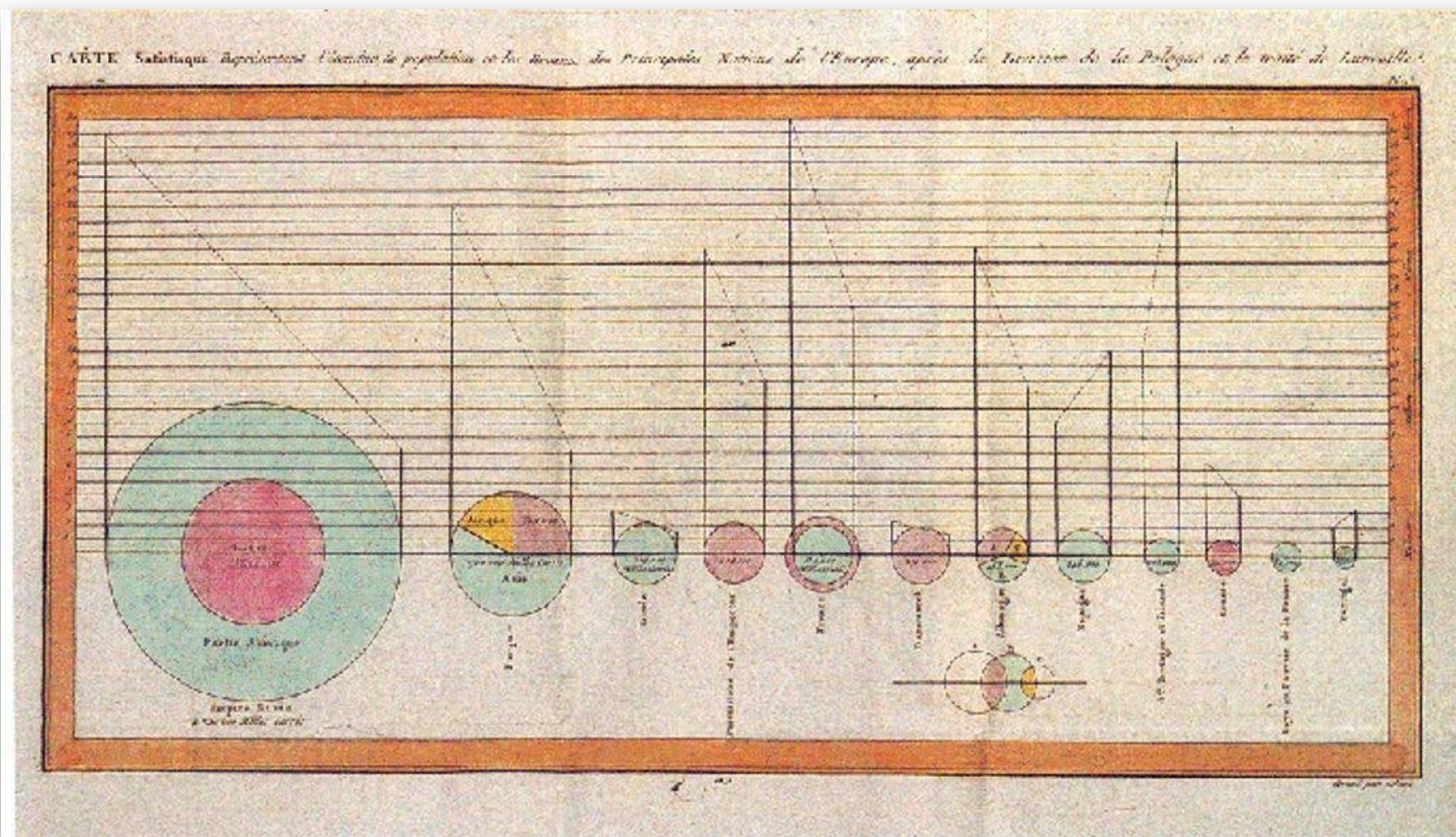
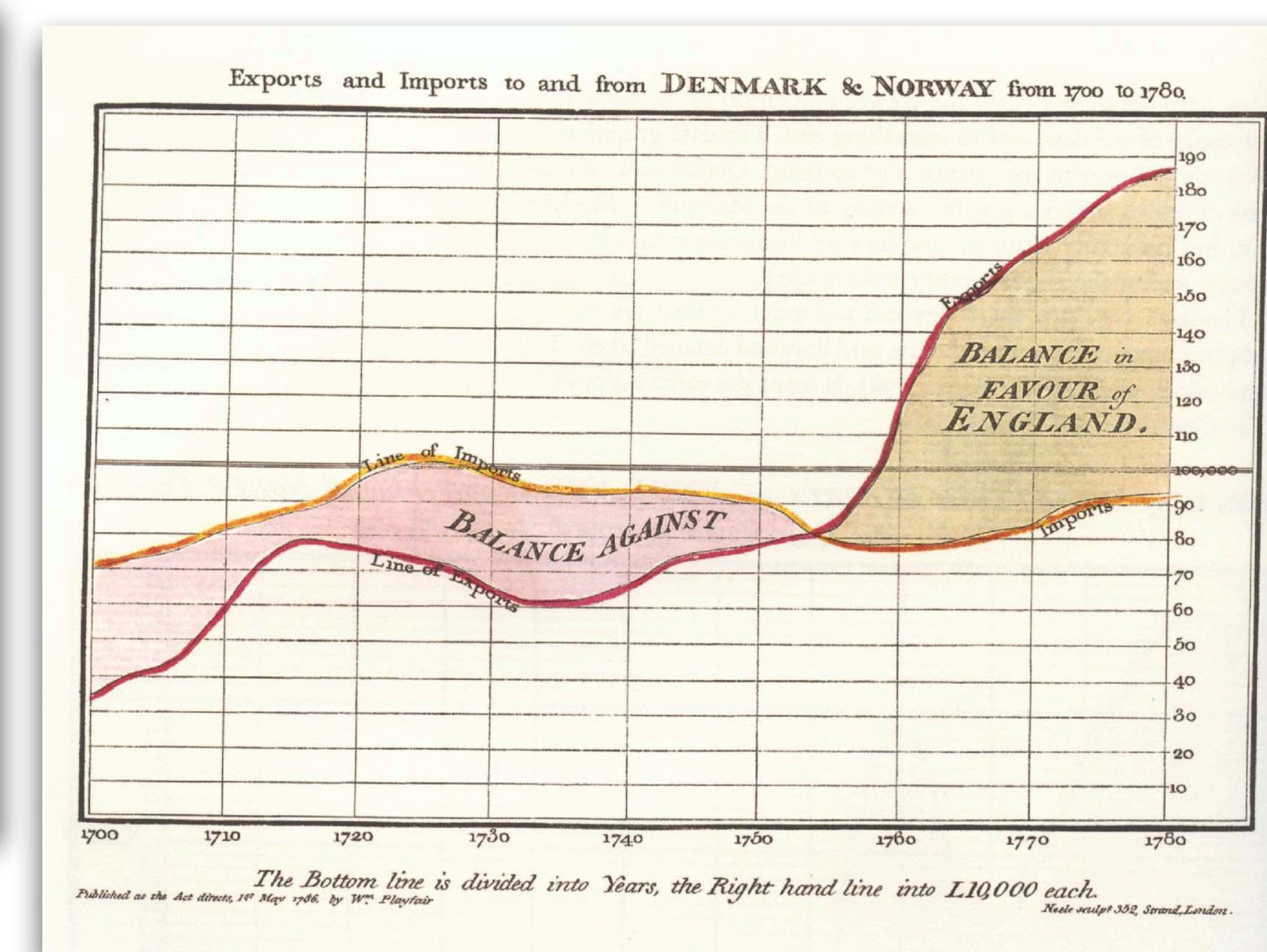
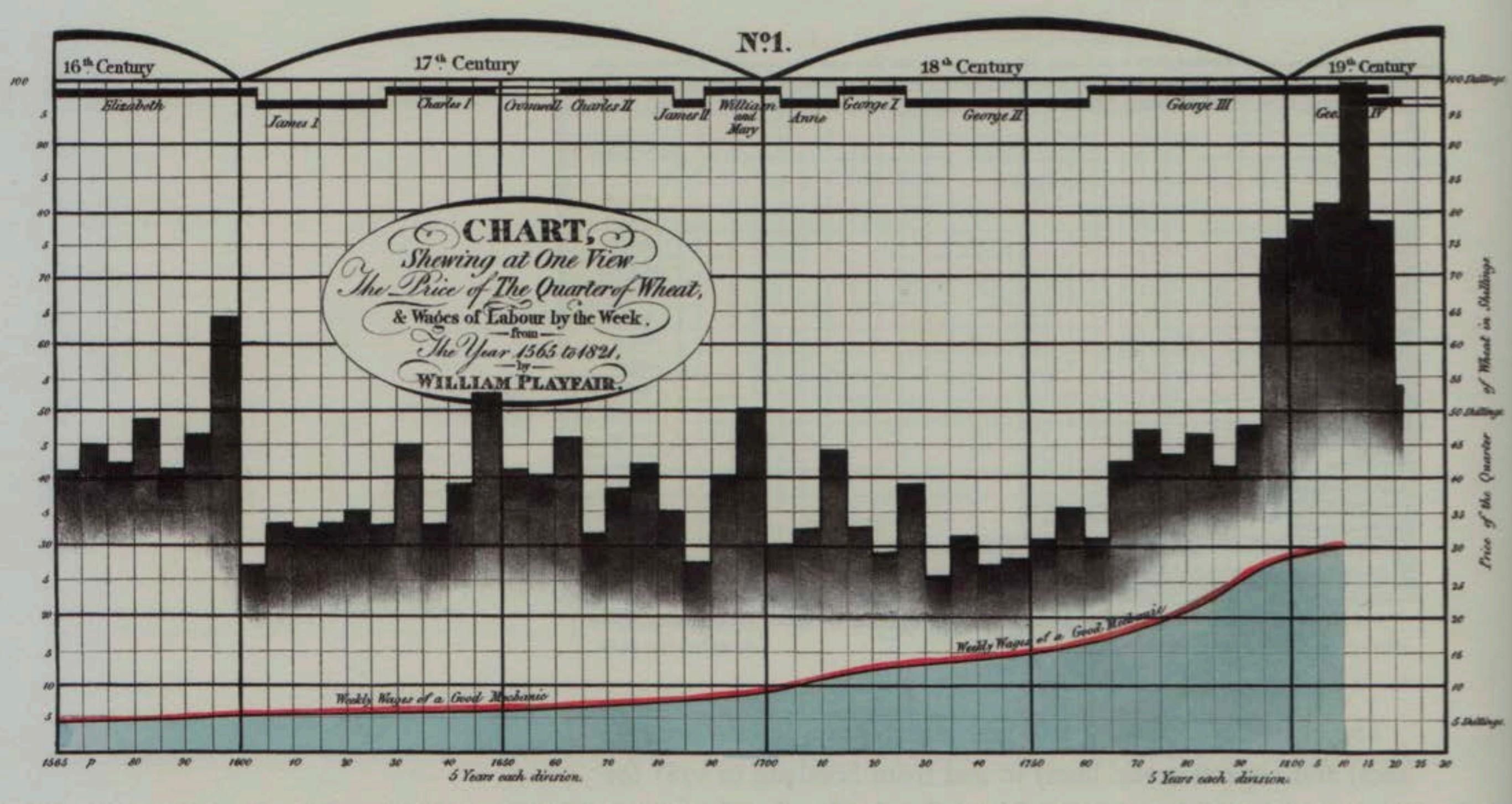


## Pays/Région

Allemagne	628 840
Autriche	81 162
Belgique	49 227
Danemark	8 638
Espagne	287 147
Finlande	20 704
France	858 931
Irlande	16 640
Italie	289 710
Norvège	20 525
Pays-Bas	77 515
Portugal	15 105
Royaume-Uni	528 576
Suède	30 491
Suisse	24 878

## Pays,+égi...on



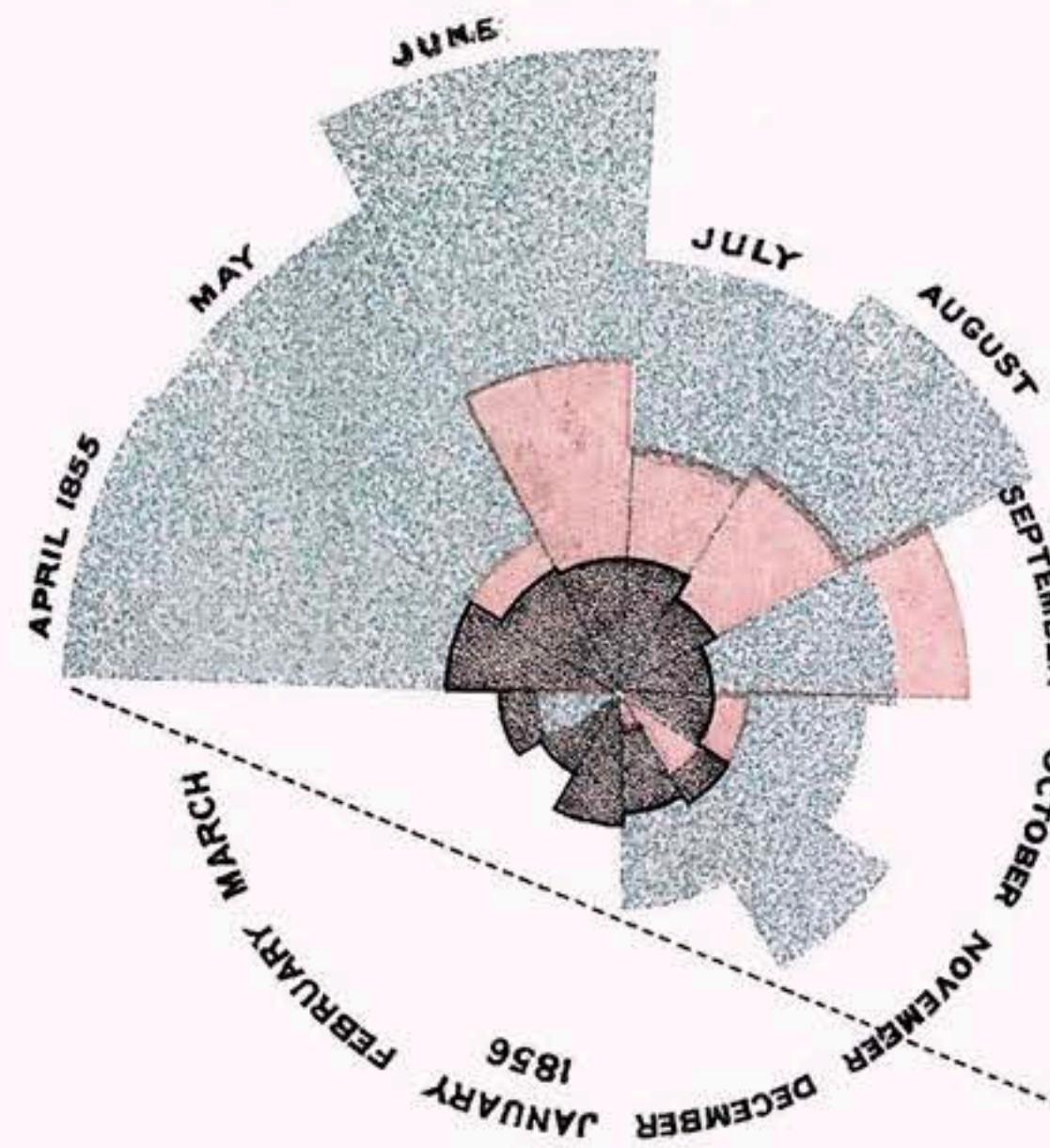


**William Playfair - 1759**

DIAGRAM OF THE CAUSES OF MORTALITY  
IN THE ARMY IN THE EAST.

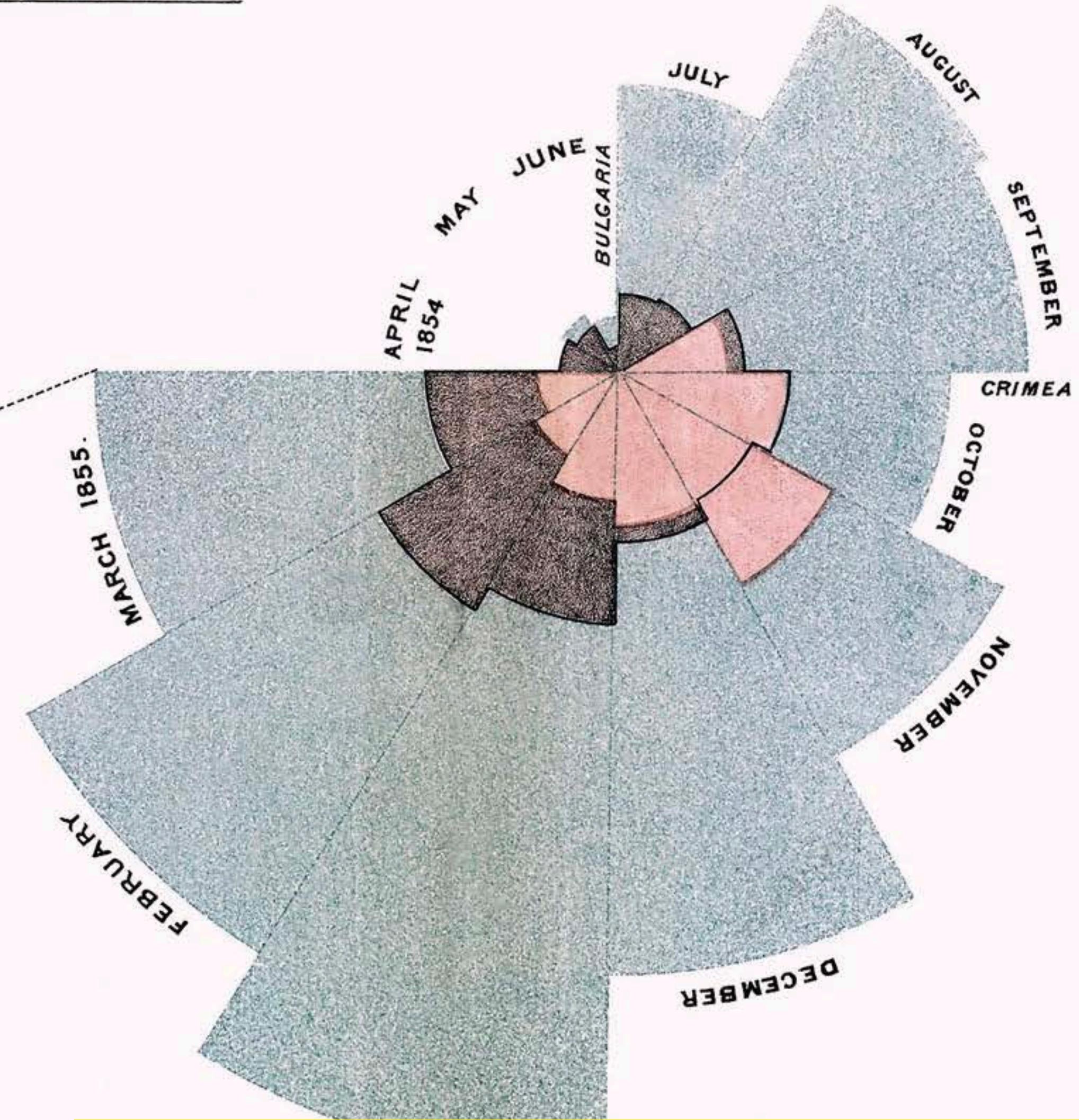
2.

APRIL 1855 TO MARCH 1856.



1.

APRIL 1854 TO MARCH 1855.



*The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex.*

*The blue wedges measured from the centre of the circle represent area for area the deaths from Preventible or Mitigable Zymotic diseases; the red wedges measured from the centre the deaths from wounds; & the black wedges measured from the centre the deaths from all other causes.*

*The black line across the red triangle in Nov<sup>r</sup> 1854 marks the boundary of the deaths from all other causes during the month.*

*In October 1854, & April 1855, the black area coincides with the red; in January & February 1856, the blue coincides with the black.*

*The entire areas may be compared by following the blue, the red & the black lines enclosing them.*

**Florence Nightingale - 1858**

Ploty

Business  
Objects

Tableau

Excel

Qlik

SSRS

D3.js

Pen

Paper

Illustrator

Toucan  
Toco

Kibana

Power  
BI

JOB

OR

PASSION

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2014

2015

2016

2017

2018

2019

2020

**JOB  
PASSION**

# SAP BUSINESSOBJECTS BI

The screenshot displays the SAP BusinessObjects BI application interface. On the left, there's a navigation pane titled "Adventure Works" containing a "Simple hierarchy query" and a "Measures" section with numerous items like Exchange Rates, Financial Reporting, Internet Customers, etc. The main workspace contains three primary components:

- Orders by Continent (SAP BW 7.1)**: This section features three pie charts showing Order Amount, Order Quantity, and Product Price distribution across continents. The legend indicates four categories: EUROPE (blue), NORTH\_AMERICA (orange), ASIA\_PAC (green), and MIDDLE\_EAST (red). The data shows that North America is the largest contributor to all metrics.
- Sales by Date (SSAS 2008)**: A table titled "Sales by Date (SSAS 2008)" showing 20 rows by 4 columns, 80 cells. The table lists monthly sales figures from January 2003 to April 2004, categorized by Date.Calendar and Product Categories (Accessories, Bikes, Clothing, Components).
- Sales by Date (SSAS 2008) - Sub-Analysis 2**: A line chart showing sales trends over time from July 2003 to June 2004. The Y-axis ranges from 0 to 5,000,000. The X-axis shows months from July 2003 to June 2004. The chart tracks four product categories: Accessories (blue), Bikes (orange), Clothing (green), and Components (red).

2014

2015

**2016**

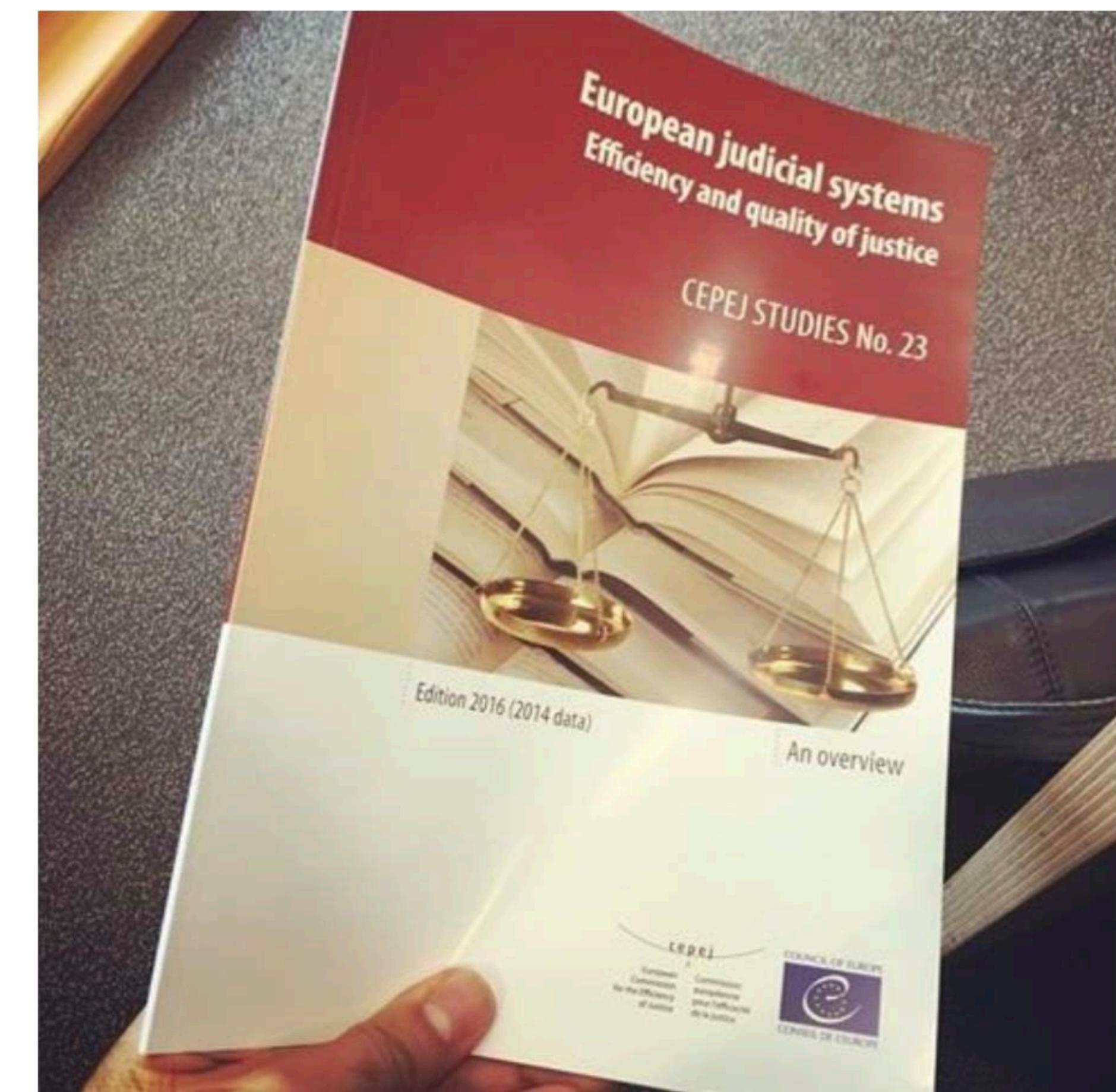
2017

2018

2019

2020

**JOB  
PASSION**



2014

2015

2016

2017

2018

2019

2020

# JOB PASSION

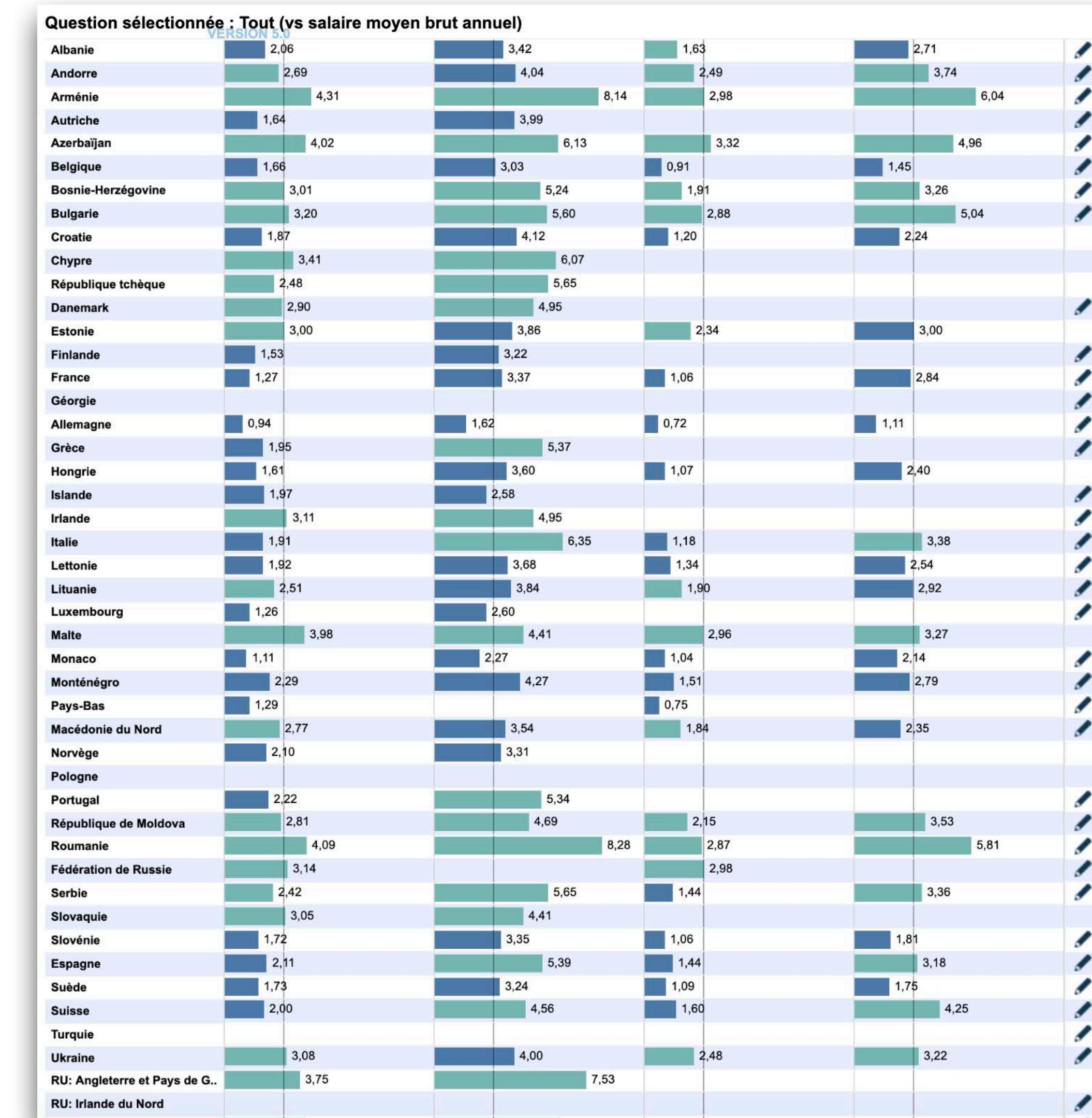
**cepej** European Commission for the Efficiency of Justice **COUNCIL OF EUROPE** CONSEIL DE L'EUROPE

**VERSION 5.0**

**Systèmes judiciaires Européens |**

Aucun 30/08/2019 12:44:44

	Q132.1.1 Salaire annuel brut en € (1ère..)	Q132.1.2 Salaire annuel brut en € (Cou..)	Q132.2.1 Salaire annuel net en € (1ère i..)	Q132.2.2 Salaire annuel net en € (Cour ..)	Q132.3.1 Salaire annuel brut en monna..	Q132.3.2 Salaire annuel brut en monna..	Q132.4.1 Salaire annuel net en monna..	Q132.4.2 Salaire annuel net en monna..	Com..
Albanie	9 324	15 535	7 416	12 305	1 258 272	2 097 120	1 000 572	1 661 268	
Andorre	59 098	88 660	54 665	82 010	NAP	NAP	NAP	NAP	
Arménie	16 955	32 043	11 748	23 761	8 684 182	16 412 266	6 017 295	12 170 289	
Autriche	51 962	126 594	NA	NA	51 962	126 594	NA	NA	
Azerbaïjan	12 930	19 718	10 686	15 950	24 108	36 763	19 923	29 738	
Belgique	68 856	125 904	37 903	60 350	NAP	NAP	NAP	NAP	
Bosnie-Herzégovine	23 996	41 830	15 255	26 026	46 931	81 813	29 837	50 903	
Bulgarie	18 867	33 055	16 975	29 757	36 900	64 650	33 200	58 200	
Croatie	23 128	50 927	14 804	27 729	174 141	383 446	111 469	208 780	
Chypre	76 939	136 756	NA	NA	76 939	136 756	NA	NA	
République tchèque	30 377	69 174	NA	NA	820 800	1 869 084	NA	NA	
Danemark	121 830	207 700	NA	NA	906 708	1 545 786	NA	NA	
Estonie	41 250	53 040	32 220	41 312	NAP	NAP	NAP	NAP	
Finlande	62 000	130 000	NA	NA	NAP	NAP	NAP	NAP	
France	44 864	119 376	37 580	100 503	NAP	NAP	NAP	NAP	
Géorgie	17 180	25 770	13 744	20 616	48 000	72 000	38 400	57 600	
Allemagne	47 469	81 565	36 403	55 642	NA	NA	NA	NA	
Grèce	31 710	87 256	NA	NA	NA	NA	NA	NA	
Hongrie	16 916	37 958	11 249	25 242	5 233 734	11 744 361	3 480 434	7 810 001	
Islande	132 731	173 583	NA	NA	15 794 940	20 656 332	NA	NA	
Irlande	114 711	182 895	NA	NA	114 711	182 895	NA	NA	
Italie	56 263	186 637	34 758	99 203	NAP	NAP	NAP	NAP	
Lettonie	19 764	37 888	13 827	26 173	19 764	37 888	13 827	26 173	
Lithuanie	23 571	36 149	17 914	27 473	23 571	36 149	17 914	27 473	
Luxembourg	83 626	172 172	NAP	NAP	NAP	NAP	NAP	NAP	
Malte	68 649	76 130	51 134	56 422	68 649	76 130	51 134	56 422	
Monaco	46 457	95 202	43 850	89 859	46 457	95 202	43 850	89 859	
Monténégro	20 669	38 457	13 607	25 170	20 669	38 457	13 607	25 170	
Pays-Bas	74 000	NA	43 000	NA	NA	NA	NA	NA	
Macédonie du Nord	17 713	22 699	11 781	15 057	1 089 350	1 395 988	724 531	926 005	
Norvège	120 459	190 170	NA	NA	1 091 000	1 721 856	NA	NA	
Pologne	21 435	NA	17 489	NA	94 830	NA	77 371	NA	
Portugal	35 699	85 820	NA	NA	NAP	NAP	NAP	NAP	
République de Moldova	7 648	12 747	5 843	9 585	168 696	281 160	128 889	211 427	
Roumanie	28 987	58 695	20 332	41 184	131 634	266 538	92 328	187 020	
Fédération de Russie	18 675	NA	17 735	NA	1 191 676	NA	1 131 677	NA	
Serbie	14 923	34 870	8 873	20 733	1 842 626	4 305 482	1 095 573	2 559 918	
Slovaquie	33 377	48 212	NA	NA	NAP	NAP	NAP	NAP	
Slovénie	32 628	63 660	20 088	34 356	NAP	NAP	NAP	NAP	
Espagne	48 154	122 818	32 753	72 503	NAP	NAP	NAP	NAP	
Suède	71 064	133 438	44 890	71 996	676 800	1 270 836	427 524	685 680	
Suisse	145 711	331 854	116 569	308 624	156 214	355 773	124 971	330 868	
Turquie	24 103	44 241	18 811	33 929	89 422	164 132	69 790	125 876	
Ukraine	7 318	9 514	5 891	7 659	208 000	270 400	167 440	217 672	



2014

2015

**2016**

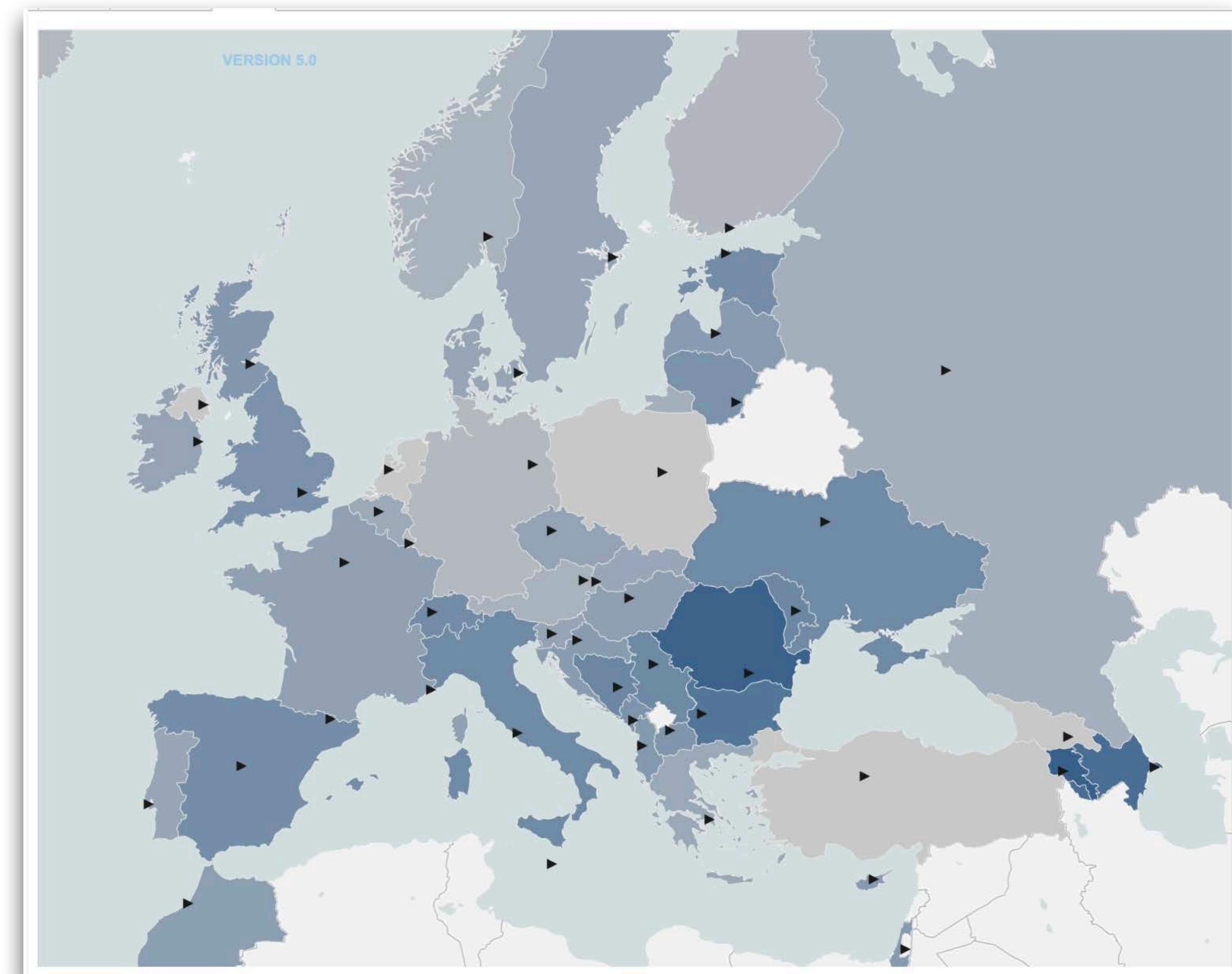
2017

2018

2019

2020

**JOB  
PASSION**



2014

2015

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2019

2020

TABLES BARS TABLES BARS TABLES BARS TABLES BARS TABLES  
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2014

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JOB

PASSION

Goal

**Do more creative  
dashboards**

2014

2015

2016

2017

2018

2019

2020

JOB

PASSION



Where will the next great data viz come from?

2014

2015

2016

2017

2018

2019

2020

JOB

PASSION



2014

2015

2016

2017

2018

2019

2020

# JOB PASSION

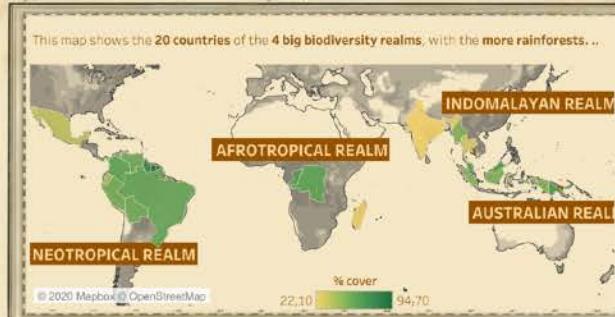
**"Wake up Data Explorer"**

You wake up in the middle of the **jungle** with **no memory** of how you got there.

The first thing you notice is you are wearing earplugs. Click on them to remove them and listen to the jungle: 

**1. THE FOREST SPIRIT AND ANCIENT RELICS**

You start to panic. Why are you in the middle of the jungle?  
**"Rainforest"**, bellows a deep dark voice.  
*"You are not in the jungle, but the heart of the rainforest"*, the voice continues.  
*"Open your backpack, you will find the answers you seek"*.  
*But beware, ancient magic is tied to these relics..."*  
 You find a map and an old book. To your astonishment, you realize the voice is right.  
 Touching the map affects the book, and vice-versa...

This map shows the 20 countries of the 4 big biodiversity realms, with the more rainforests... 

**2. NEW MAGIC AND A TERRIFYING THRUTH**

Understanding begins to take hold of you. You are in a rainforest, the core of the earthly **biodiversity**. For the first time, you realize how important the rainforests are.  
**"Danger"** booms the dark voice. "Gifts of the rainforest are **disappearing** and yet you see nothing... Did the ancient magic fill you with wonder? Look in your bag, even more **powerful** relics await..." You find a tablet, connected to something called Tableau Public. You have a strange **deja-vu** feeling as you start to explore its contents...

tableau/public Rainforest evolution between 1990 and 2015  
 121M hectares (-%) of rainforests were lost in the 20 countries analyzed  
 Select the type of display:   
 Select the measure: Hectare  
 Endangered species  
 16 over the 20 countries with the most endangered species are the one with the most rainforests  
 Filter a group of species: Tout  
 Difference in Hectare between 1990 and 2015 by realm and country  
 NEOTROPICAL REALM: Brazil -53M hect, Colombia -5M hect, Venezuela -1M hect, Peru -1M hect, Mexico -1M hect, Ecuador -1M hect, Panama -1M hect, Guyana -1M hect, French Guiana -1M hect, Suriname -1M hect, Dem. Rep. Congo -1M hect, Madagascar -1M hect, Congo -1M hect, Indonesia -1M hect, Malaysia -1M hect, Thailand -1M hect, India -1M hect, Myanmar -1M hect, Papua New Gu... -1M hect  
 AFROTROPICAL REALM: Dem. Rep. Con. -1M hect, Madagascar -1M hect  
 INDOMALAYAN REALM: Indonesia -1M hect, Malaysia -1M hect, Thailand -1M hect, India -1M hect  
 AUSTRALIAN REAL: Papua New Gu... -1M hect  
 -70K -60K -50K -40K -30K -20K -10K 0K 10K 20K % cover  
 0 500 1000 1500 2000 2500

**3. THE TRIAL**

"Now, show me that you understand; spell out my name and all will be revealed!"  
 You seek 8 letters:  
 - Begin with the **first letter** of the **afrotropical country** with **highest biodiversity**;  
 - Second, the **last letter** of the **small country** that **North America links**;  
 - After which, the **first three letters** of the **best country** in **% of reforestation**;  
 - Then, the **fifth letter** of the **2nd worst neotropical country** in **deforestation**;  
 - Next, the **first letter** of the **indomalayan country** with **most endangered species**;  
 - Finally, the **last letter** of the **australian country** with **most rainforests**;  
 If you think you've found my name, don't forget to press enter

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 You find a **map** and an old **book**. To your astonishment, you realize the voice is right!  
 Touching the map affects the book, and vice-versa...

Rainforests contains 50% of all life forms. Below are number of life forms by country and realms

**ALL BIODIVERSITY**

Country	Number of life forms
Brazil	~60,000
Colombia	~40,000
Mexico	~30,000
Venezuela	~20,000
Ecuador	~20,000
Peru	~20,000
Bolivia	~20,000
Panama	~10,000
Guyana	~10,000
French Guiana	~10,000
Suriname	~10,000
Dem. Rep. Congo	~10,000
Madagascar	~10,000
Congo	~10,000
Indonesia	~10,000
India	~10,000
Malaysia	~10,000
Thailand	~10,000
Myanmar	~10,000
Papua New Guinea	~10,000

This map shows the **20 countries of the 4 big biodiversity realms, with the more rainforests**. Countries are colorized with the % of rainforest cover.

AFROTROPICAL REALM:  77% of Madagascar endangered species are only from Madagascar

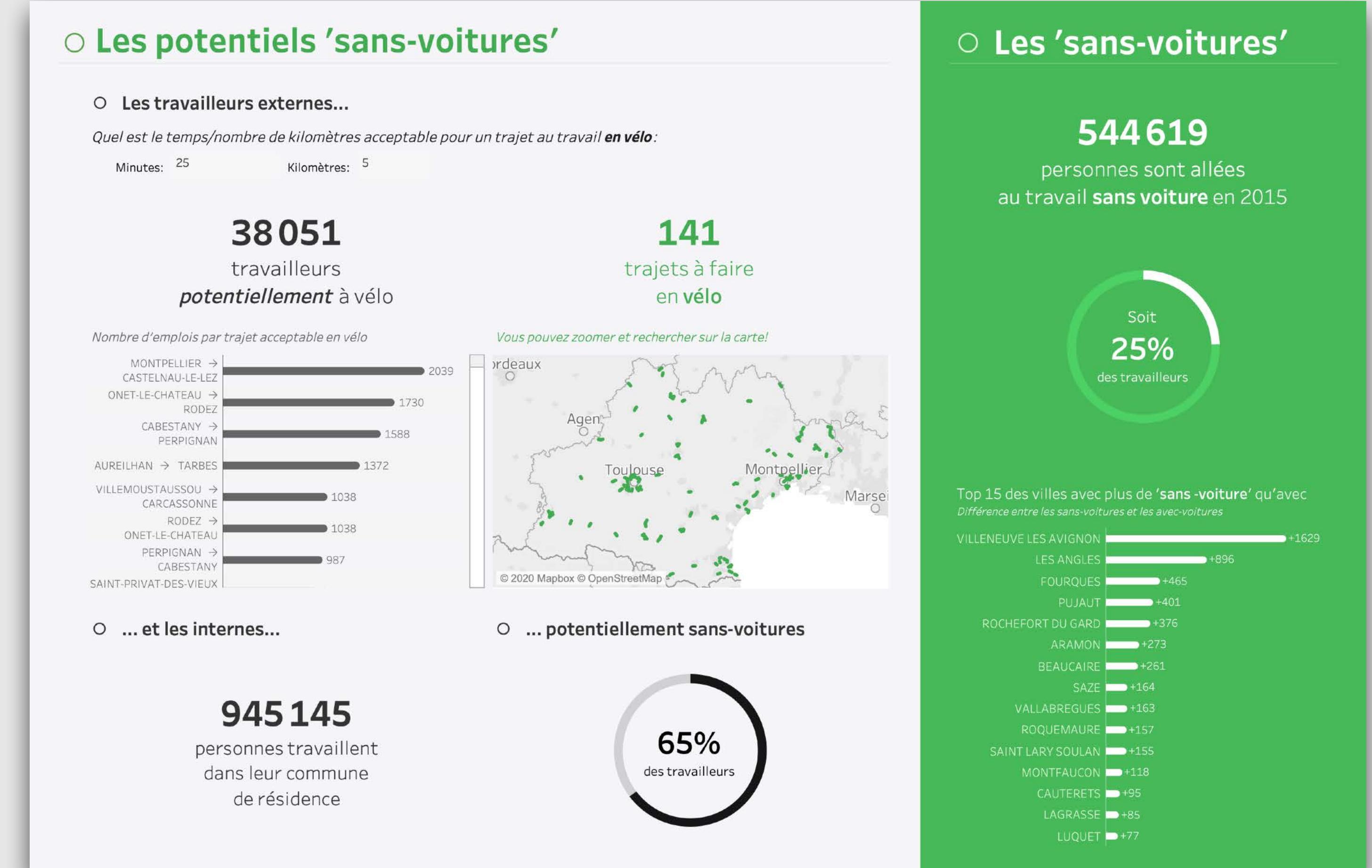
INDOMALAYAN REALM: 

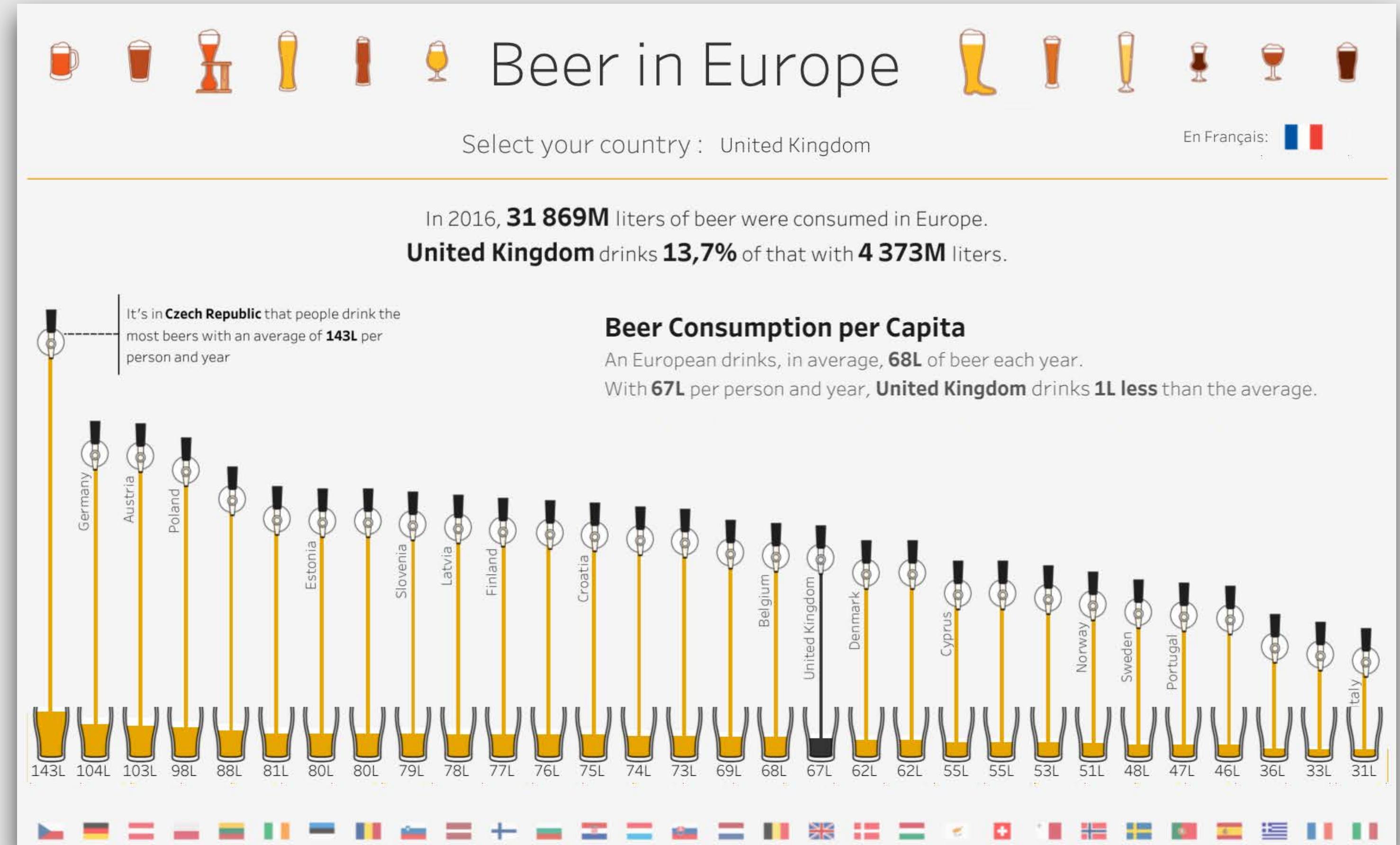
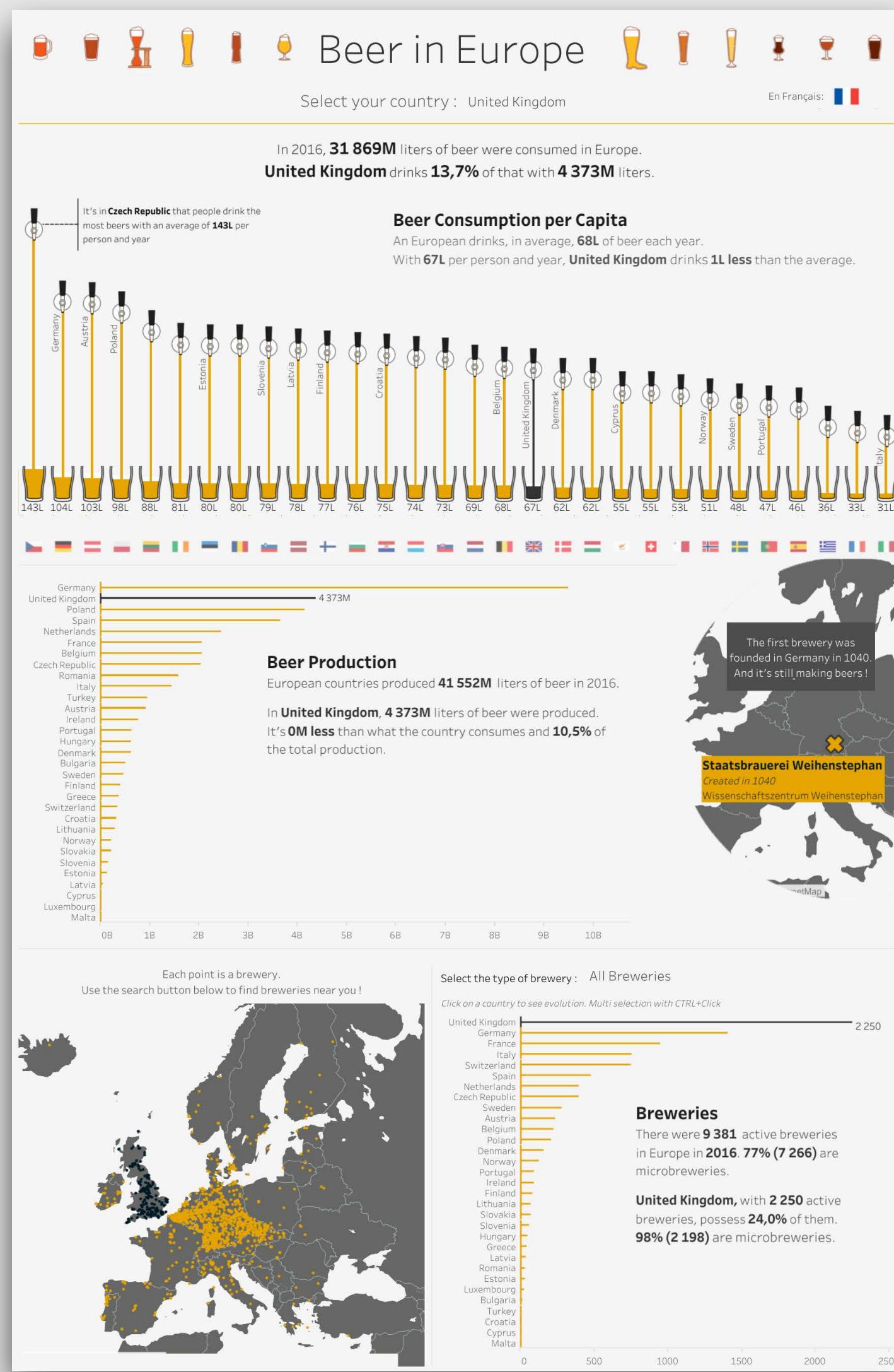
NEOTROPICAL REALM:  22,10 % cover 94,70

AUSTRALIAN REAL: 

TOUCH THE PICTURE TO FILTER

**How to build an  
efficient Dashboard?**





# VOITURE - BOULOT - DODO

Une analyse des trajets au travail en Occitanie

## ○ Les potentiels 'sans-voitures'

### ○ Les travailleurs externes...

Quel est le temps/nombre de kilomètres acceptable pour un trajet au travail **en vélo**:

Minutes: 25 Kilomètres: 5

**38 051**  
travailleurs  
**potentiellement** à vélo

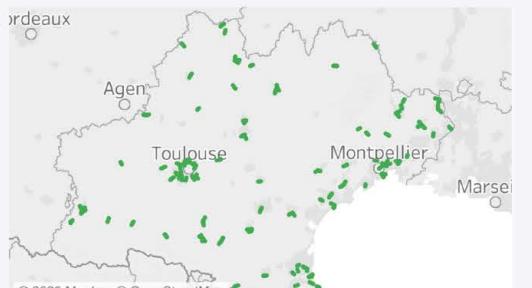
**141**  
trajets à faire  
en vélo

## ○ Les 'sans-voitures'

**544 619**  
personnes sont allées  
au travail **sans voiture** en 2015

Soit  
**25%**  
des travailleurs

Vous pouvez zoomer et rechercher sur la carte!



Top 15 des villes avec plus de 'sans-voiture' qu'avec

VILLENEUVE LES AVIGNON	+1629
LES ANGLES	+1696
FOURQUES	+465
PUJAUT	+401
ROCHEFORT DU GARD	+376
ARAMON	+273
BEAUCARIE	+261
SAZE	+164
VALLABREGUES	+163
ROQUEMAURE	+157
SAINT LARY SOULAN	+155
MONTFAUCON	+118
CAUTERETS	+95
LAGRASSE	+85
LUQUET	+77

### ○ ... et les internes...

**945 145**  
personnes travaillent  
dans leur commune  
de résidence

**65%**  
des travailleurs

## ○ Et vous?

Vous habitez à CASTELGINEST

Vous travaillez à SAINT-ALBAN

**150**

personnes font ce trajet.

Pensez au co-voltusage!

**12**

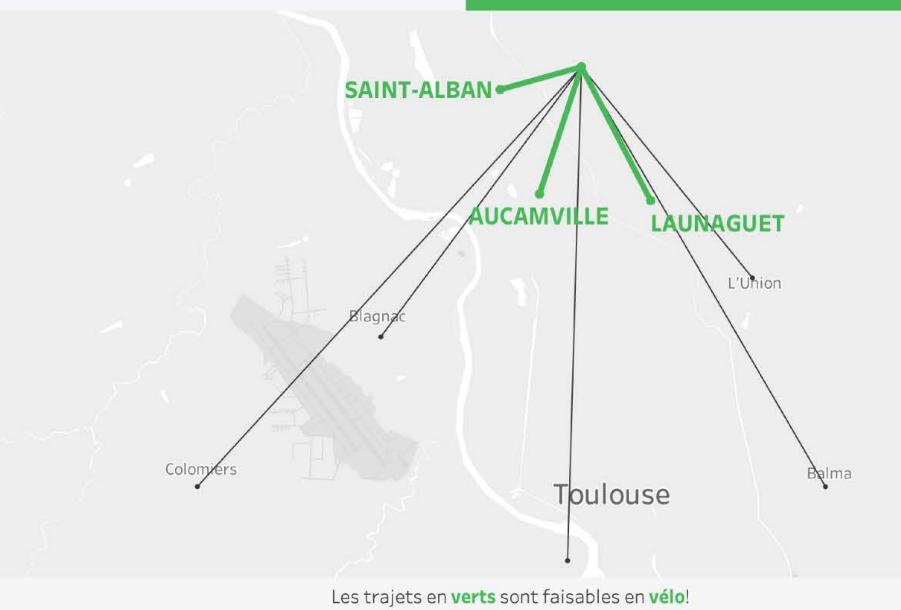
minutes de vélo (2,6 km)

**750**

habitent et travaillent à CASTELGINEST

Vous en faites partie?

Pensez transport en commun, vélo ou marche!



**"Wake up Data Explorer"**  
En Français:

You wake up in the middle of the **jungle** with **no memory** of how you got there.

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Touching the map affects the book, and vice-versa...

**Rainforests contain 50% of all life forms.**  
Below are the number of tree species by country and realms

**ALL BIODIVERSITY**

Country	% cover
Brazil	22,10
Colombia	94,70
Mexico	
Venezuela	
Ecuador	
Peru	
Bolivia	
Panama	
Ghana	
French Guiana	
Suriname	
Dem. Rep. Congo	
Madagascar	
Congo	
Indonesia	
India	
Thailand	
Myanmar	
Papua New Guinea	

**TOUCH THE PICTURE TO FILTER**

**2. NEW MAGIC AND A TERRIFYING TRUTH**

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**Rainforest evolution between 1990 and 2015**

**121M hectares (-9%) of rainforests were lost** in the 20 countries analysed

Select the type of display:   
Select the measure: Hectare

**Endangered species**

**16 over the 20** countries with the most **endangered** species are the one with the most **rainforests**

Filter a group of species : Tout

Number of endangered species by realm and country

Realm Country Ranked

Realm	Country	Ranked
NEOTROPICAL REALM	Brazil	-53M hect
	Bolivia	
	Colombia	
	Venezuela	
	Peru	9
	Ecuador	13
	Panama	14
	Guyana	44
	Suriname	50
AFROTROPICAL REALM	French Guiana	58
	Dem. Rep. Con.	Madagascar
	Congo	47
INDOMALAYAN REALM	Indonesia	2
	Malaysia	3
	India	7
AUSTRALIAN R...	Papua New Gui...	12

Difference in Hectare between 1990 and 2015 by realm and country

Country Ranked

Country	Ranked
Ecuador	1
Mexico	4
Brazil	5
Colombia	6
Peru	9
Panama	13
Venezuela	14
Bolivia	16
Guyana	44
Suriname	50
French Guiana	58
Dem. Rep. Con.	Madagascar
Congo	47
Indonesia	2
Malaysia	3
India	7
Thailand	11
Myanmar	17
Papua New Gui...	12

Each point is a brewery.  
Use the search button below to find breweries near you!

Select the type of brewery : All Breweries

Click on a country to see evolution. Multi selection with CTRL+Click

**3. THE TRIAL**

Now, show me that you understand; spell out my name and all will be revealed!  
You seek 8 letters:

- Begin with the **first letter** of the **afrrotropical country** with **highest biodiversity**;
- Second, the **last letter** of the **small country** that **North and South America** links;
- After which, the **first three letters** of the **best country** in % of **reforestation**;
- Then, the **fifth letter** of the **2nd worst neotropical country** in **deforestation**;
- Next, the **first letter** of the **indomalayan country** with the **most endangered species**;
- Finally, to end your trial and quest, end my name as you would your **Abc**..."

If you think you've found my name, don't forget to press enter

**Beer in Europe**

Select your country : United Kingdom

En Français:

In 2016, **31 869M** liters of beer were consumed in Europe.  
United Kingdom drinks **13,7%** of that with **4 373M** liters.

**Beer Consumption per Capita**  
An European drinks, in average, **68L** of beer each year.  
With **67L** per person and year, United Kingdom drinks **1L** less than the average.

**Beer Production**  
European countries produced **41 552M** liters of beer in 2016.  
In United Kingdom, **4 373M** liters of beer were produced.  
It's **0M** less than what the country consumes and **10,5%** of the total production.

**Breweries**  
There were **9 381** active breweries in Europe in 2016. **7 266** are microbreweries.  
United Kingdom, with **2 250** active breweries, possess **24,0%** of them.  
**95% (2 198)** are microbreweries.

# VOITURE - BOULOT - DODO

Une analyse des trajets au travail en Occitanie

## ○ Les potentiels 'sans-voitures'

### ○ Les travailleurs externes...

Quel est le temps/nombre de kilomètres acceptable pour un trajet au travail **en vélo**:

Minutes: 25 Kilomètres: 5

**38 051**

travailleurs  
potentiellement à vélo

**141**

trajets à faire  
en vélo

### ○ ... et les internes...

**945 145**

personnes travaillent  
dans leur commune  
de résidence

**65%**  
des travailleurs

## ○ Et vous?

Vous habitez à CASTELGINEST Vous travaillez à SAINT-ALBAN

**150**

personnes font ce trajet.  
Pensez au co-voiturage!

**12**

minutes de vélo (2,6 km)

**750**

habitent et travaillent à CASTELGINEST  
Vous en faites partie?  
Pensez transport en commun, vélo ou marche!

## ○ Les 'sans-voitures'

**544 619**

personnes sont allées  
au travail sans voiture en 2015

Soit  
**25%**  
des travailleurs



### ○ ... potentiellement sans-voitures

**65%**  
des travailleurs



"Wake up Data Explorer"  
You wake up in the middle of the jungle with no memory of how you got there.

The first thing you notice is you are wearing earplugs.  
Click on them to remove them and listen to the jungle.

**1. THE FOREST SPIRIT AND ANCIENT RELICS**

You start to panic. Why are you in the middle of the jungle?  
"Rainforest", bellows a deep dark voice.  
"You are not in the jungle, but the heart of the rainforest", the voice continues.  
"Open your backpack, you will find the answers you seek."  
But beware, ancient magic is tied to these relics..."  
You find a map and an old book. To your astonishment, you realize the voice is right!  
Touching the map affects the book, and vice-versa...

Rainforests contains 50% of all life forms.  
Below are number of life forms, by country and realms.

**ALL BIODIVERSITY**

This map shows the 20 countries of the 4 big biodiversity realms, with the more rainforests.  
Countries are colorized with the % of rainforest cover.

**NEOTROPICAL REALM** AFROTROPICAL REALM INDOMALAYAN REALM AUSTRALIAN REAL

© 2020 Mapbox © OpenStreetMap

**TOUCH THE PICTURE TO FILTER**

**2. NEW MAGIC AND A TERRIFYING THRUTH**

**Understanding** begins to take hold of you. You are in a rainforest, the core of the earthly **biodiversity**. For the first time, you realize how important the rainforests are.  
"Danger", booms the dark voice. "Gifts of the rainforest are **disappearing** and yet you see nothing... Did the ancient magic fill you with wonder? Look in your bag, even more **powerful** relics await." You find a tablet, connected to something called Tableau Public. You have a strange **deja-vu** feeling as you start to explore its contents...

**3. THE TRIAL**

"Now, show me that you understand; spell out my name and all will be revealed!" You seek 8 letters:  
- Begin with the **first letter** of the **afrotropical country with highest biodiversity**;  
- Second, the **last letter** of the **small country that North and South America links**;  
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**Beer Consumption per Capita**  
An European drinks, in average, **68L** of beer each year.  
With **67L** per person and year, United Kingdom drinks **1L** less than the average.

It's in **Czech Republic** that people drink the most beers with an average of **143L** per person and year.

**Beer Production**  
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It's **0M** less than what the country consumes and **10,5%** of the total production.

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Each point is a brewery.  
Use the search button below to find breweries near you!

Select the type of brewery : All Breweries  
Click on a country to see evolution. Multi selection with CTRL+Click

United Kingdom Germany France Italy Switzerland Spain Netherlands Czech Republic Sweden Austria Belgium Poland Denmark Norway Portugal Ireland Finland Lithuania Slovenia Hungary Croatia Latvia Estonia Luxembourg Bulgaria Turkey Cyprus Malta

Understandable

Interesting

Personal

2014

2015

2016

2017

2018

2019

2020

JOB

PASSION

# Iron Viz 2017

# US Housing Market

# THE HOUSING MARKET ROLLERCOASTER

En français: 

## THE BIG PICTURE

### MEDIAN HOUSE VALUE EVOLUTION

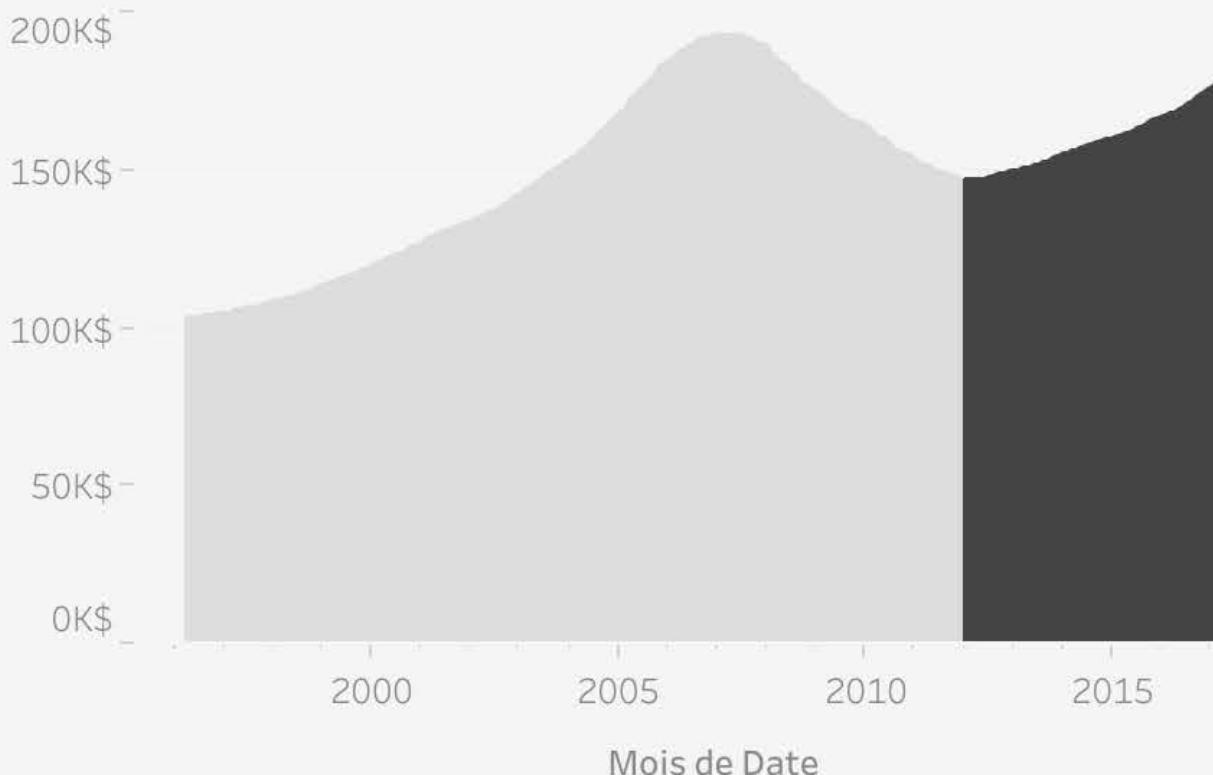
#### 2001-2005: THE BUBBLE



#### 2006-2011: THE CRISIS



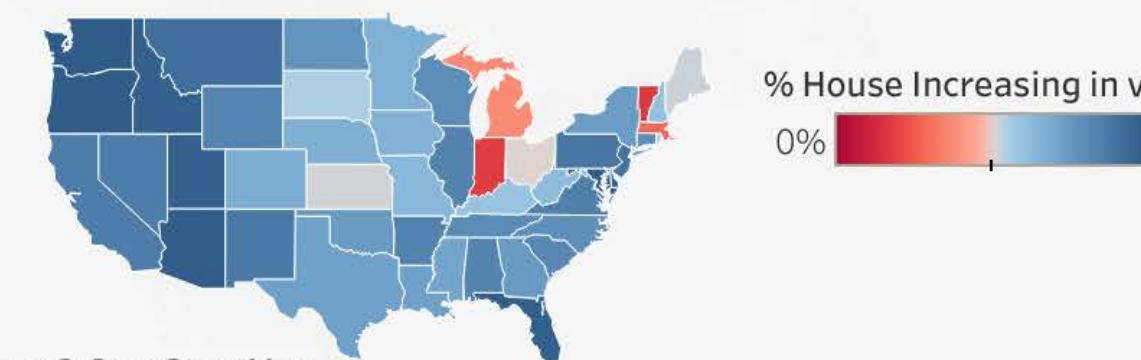
#### 2012-NOW: THE RECOVERY



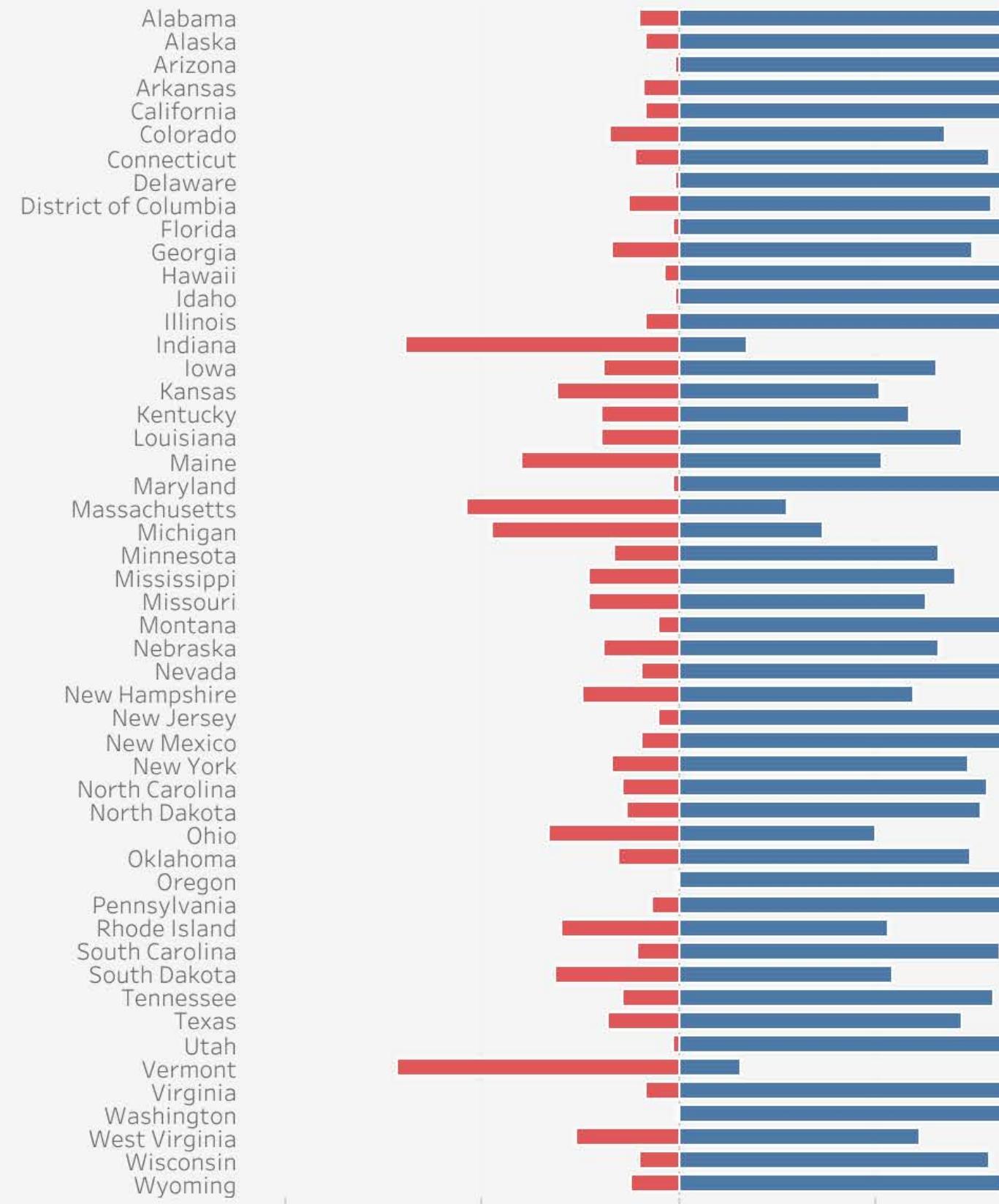
## STATE BY STATE TIMELINE

juin 2006

Afficher l'historique



### % HOUSE INCREASING OR DECREASING IN VALUE



Zillow Home Value Index data provided by Zillow. The results and opinions are those of the author(s) and not reflect the position of Zillow Group.

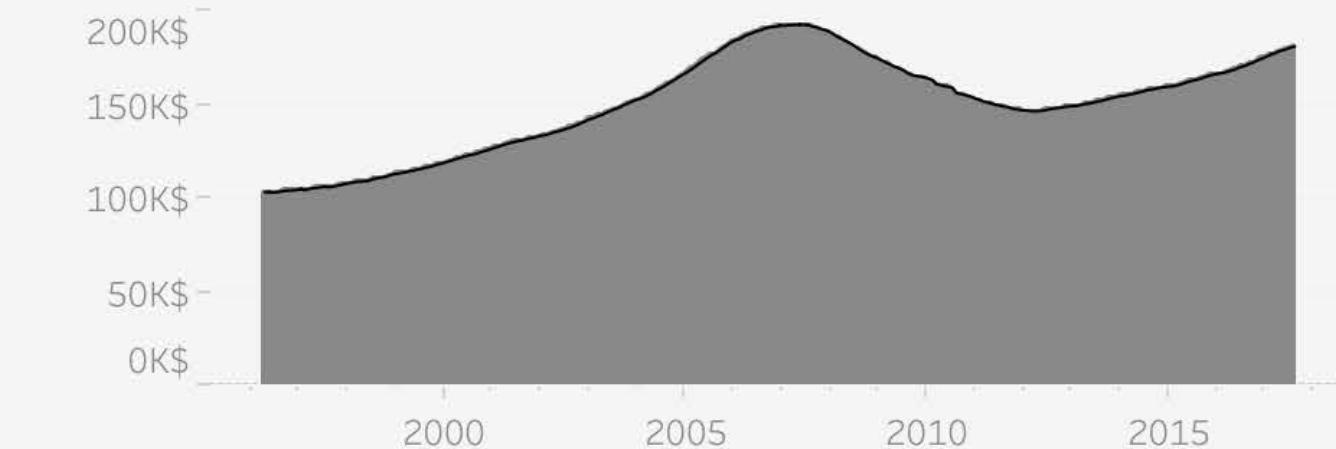
## WHAT ABOUT YOU?

Click on a bar to see the house to sell

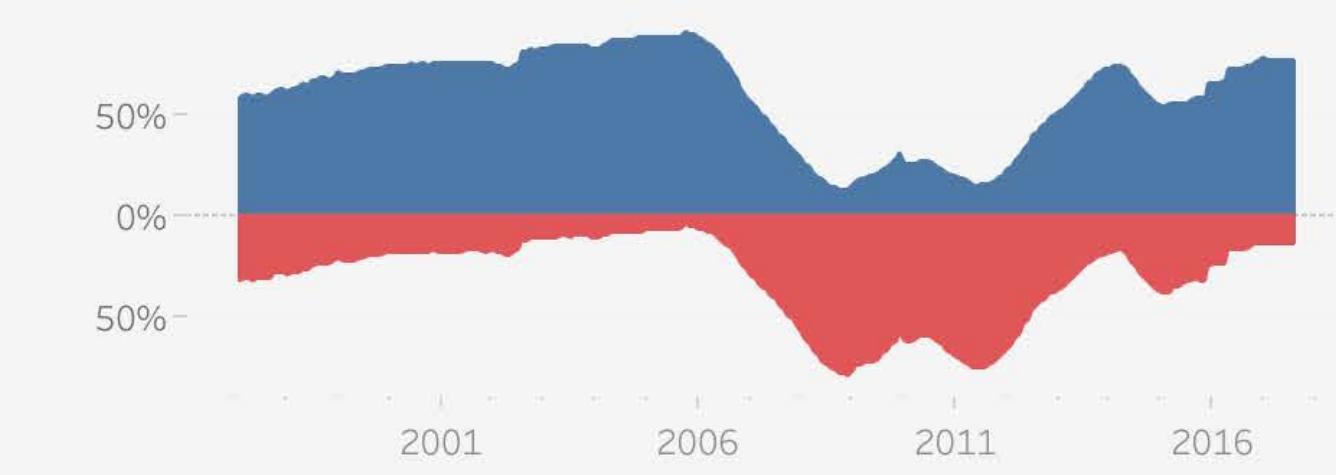
State  
Tout

City, State  
Tout

### MEDIAN HOUSE VALUE EVOLUTION



### % HOUSE INCREASING OR DECREASING IN VALUE



### CURRENT MEDIAN HOUSE VALUE PER CITY

Click on a bar to see the house to sell



# THE HOUSING MARKET ROLLERCOASTER

## THE BIG PICTURE

### MEDIAN HOUSE VALUE EVOLUTION

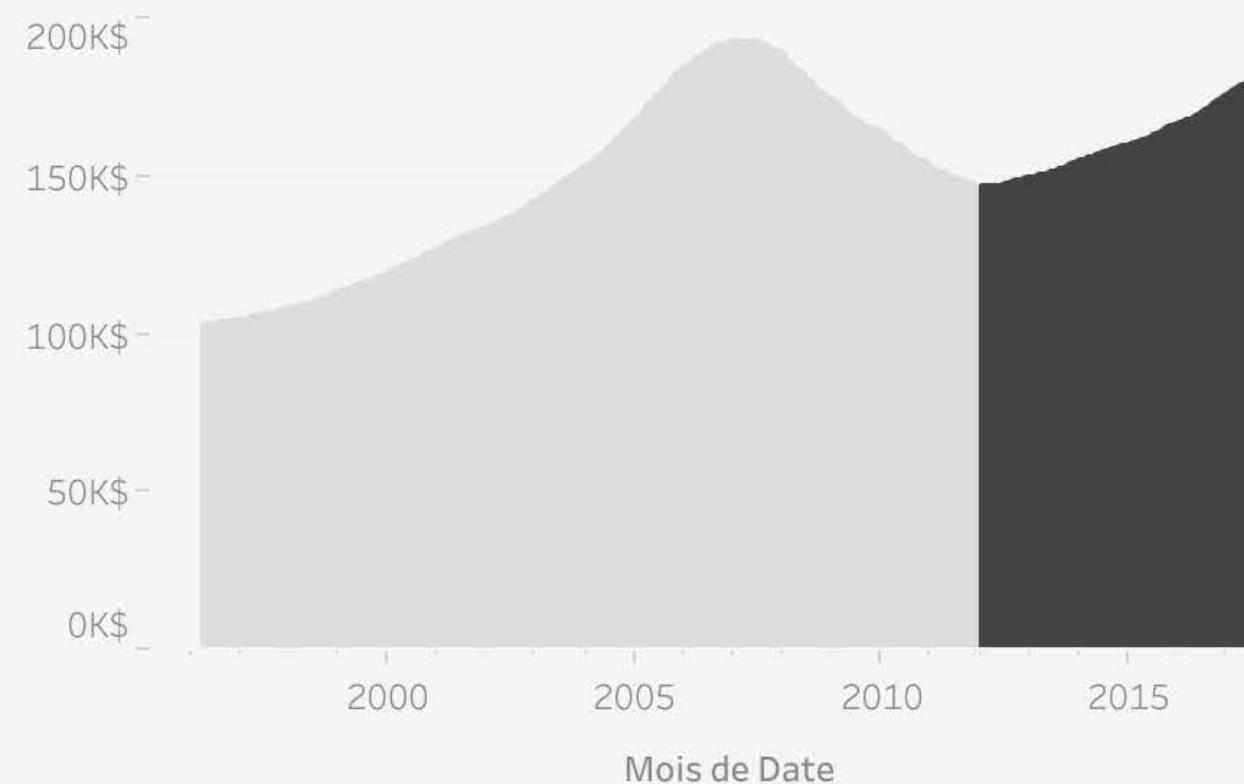
#### 2001-2005: THE BUBBLE



#### 2006-2011: THE CRISIS



#### 2012-NOW: THE RECOVERY



Mois de Date

# 1. Understandable

1. Understandable

Context

**1. Understandable**

**Context**

**2. Interesting**

# THE HOUSING MARKET ROLLERCOASTER

## THE BIG PICTURE

### MEDIAN HOUSE VALUE EVOLUTION

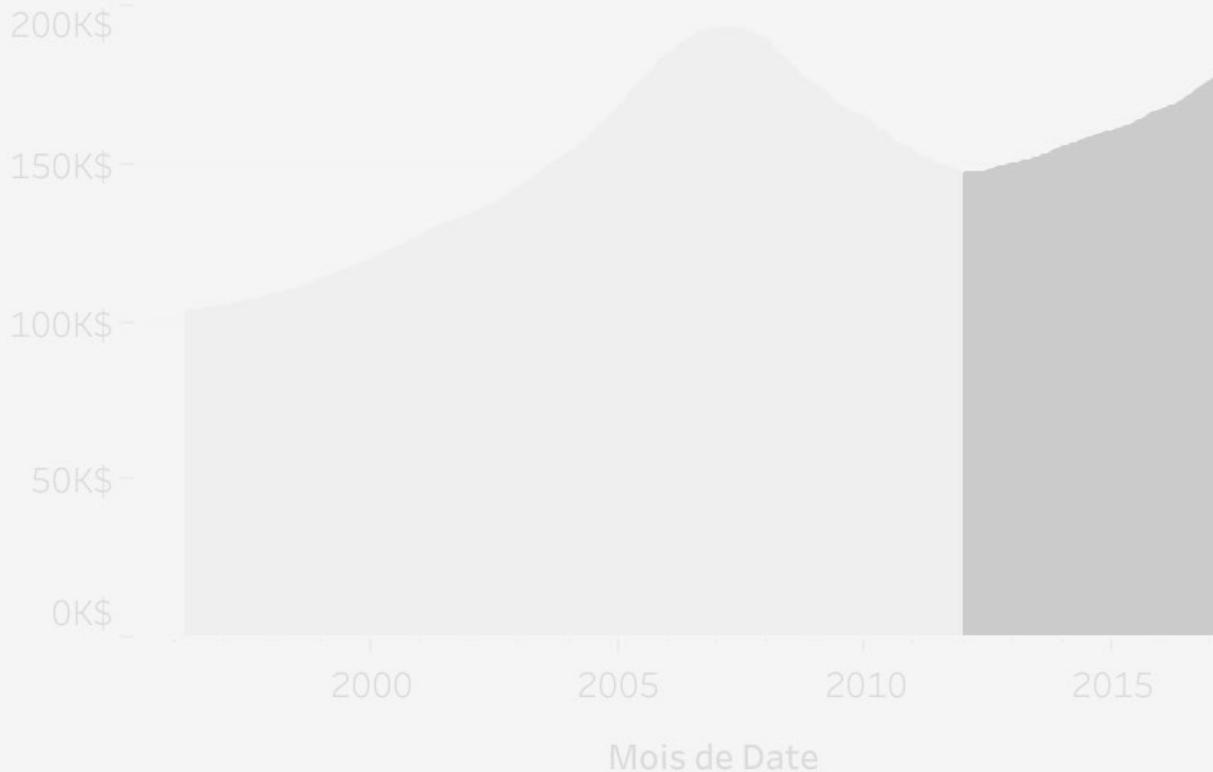
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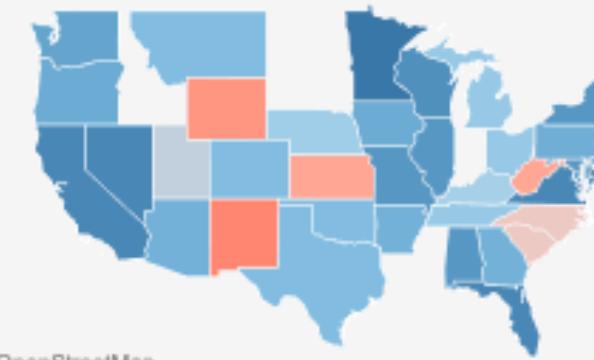
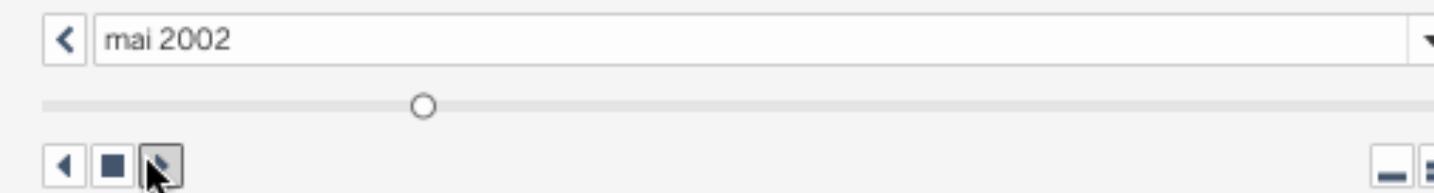
#### 2006-2011: THE CRISIS



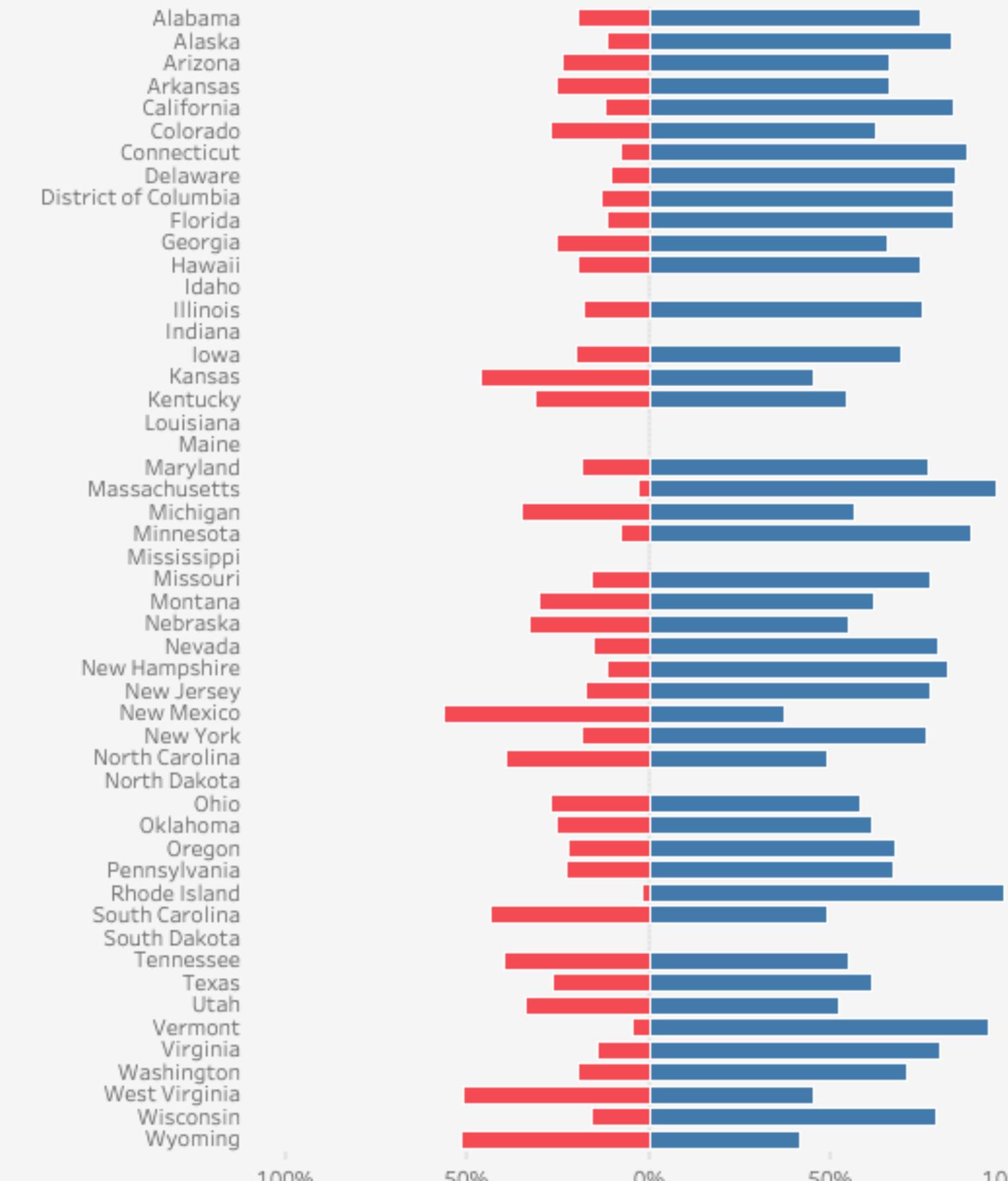
#### 2012-NOW: THE RECOVERY



## STATE BY STATE TIMELINE



### % HOUSE INCREASING OR DECREASING IN VALUE



Zillow Home Value Index data provided by Zillow. The results and opinions are those of the author(s) and not reflect the position of Zillow.

**1. Understandable**

**Context**

**2. Interesting**

1. Understandable

Context

2. Interesting

Analysis

1. Understandable

Context

2. Interesting

Analysis

3. Personal

# THE HOUSING MARKET ROLLERCOASTER

# THE BIG PICTURE

## MEDIAN HOUSE VALUE EVOLUTION

## 2001-2005: THE BUBBLE

# STATE BY STATE TIMELINE

## % HOUSE INCREASING OR DECREASING IN VALUE

# WHAT ABOUT YOU?

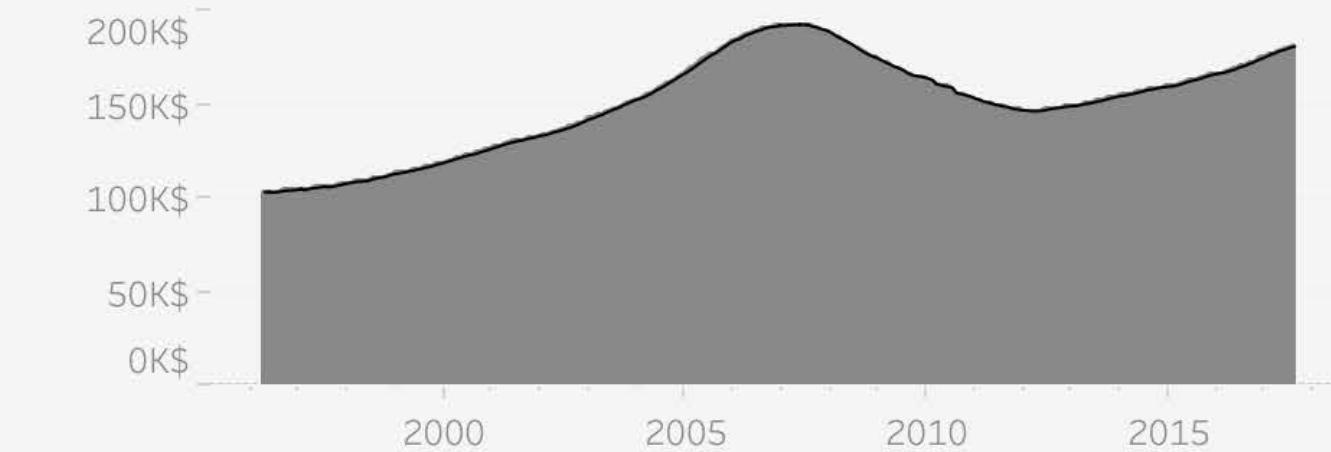
Click on a bar to see the house to sell

Sta

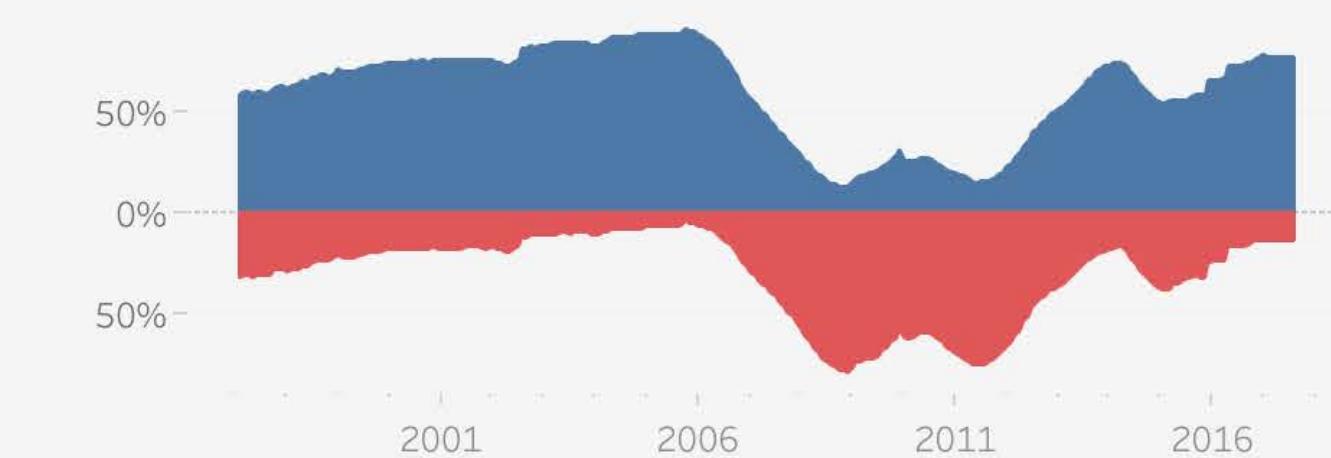
City, State

Tout

## MEDIAN HOUSE VALUE EVOLUTION



## % HOUSE INCREASING OR DECREASING IN VALUE



## CURRENT MEDIAN HOUSE VALUE PER CITY

Click on a bar to see the house to sell



1. Understandable

Context

2. Interesting

Analysis

3. Personal

1. Understandable

Context

2. Interesting

Analysis

3. Personal

Personalisation

Context

Analysis

Personalisation

**Every dashboard needs a CAP**

# THE HOUSING MARKET ROLLERCOASTER

En français: 

## THE BIG PICTURE

### MEDIAN HOUSE VALUE EVOLUTION

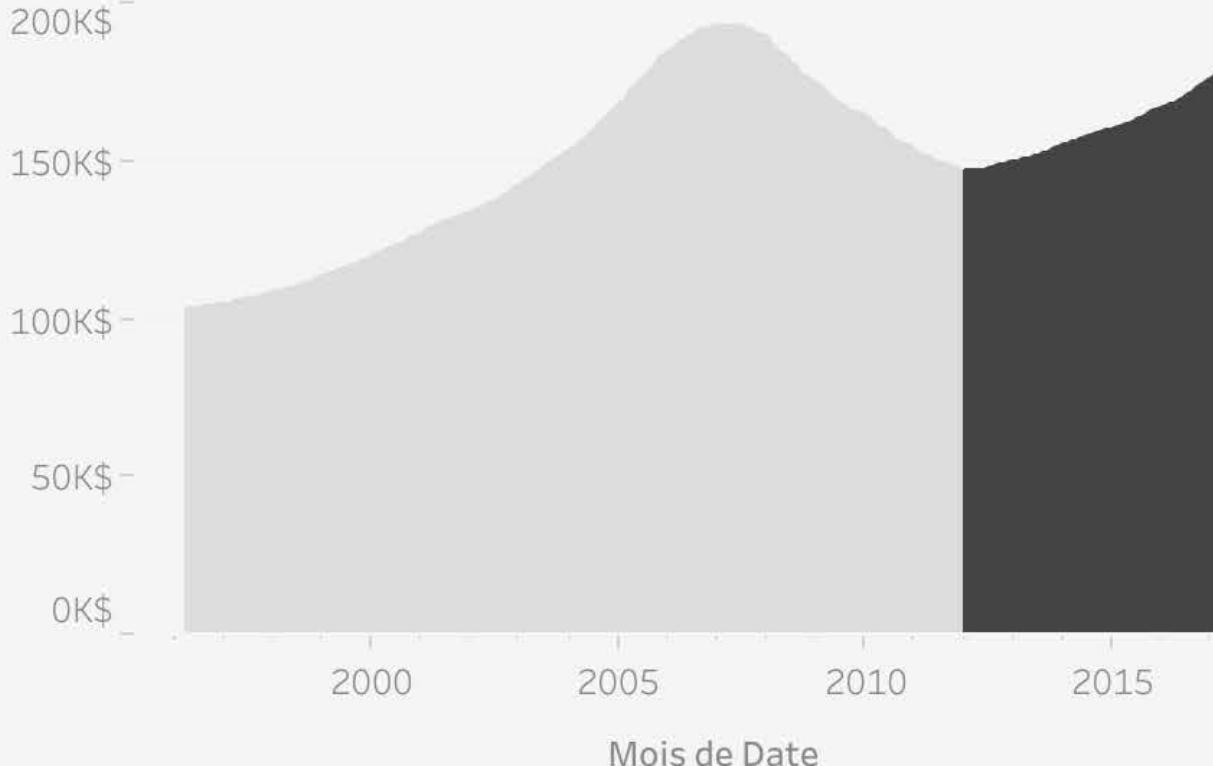
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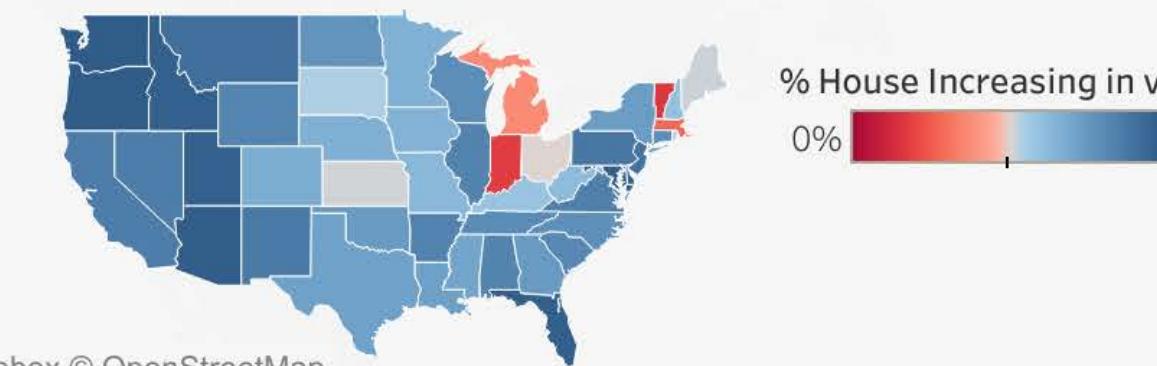


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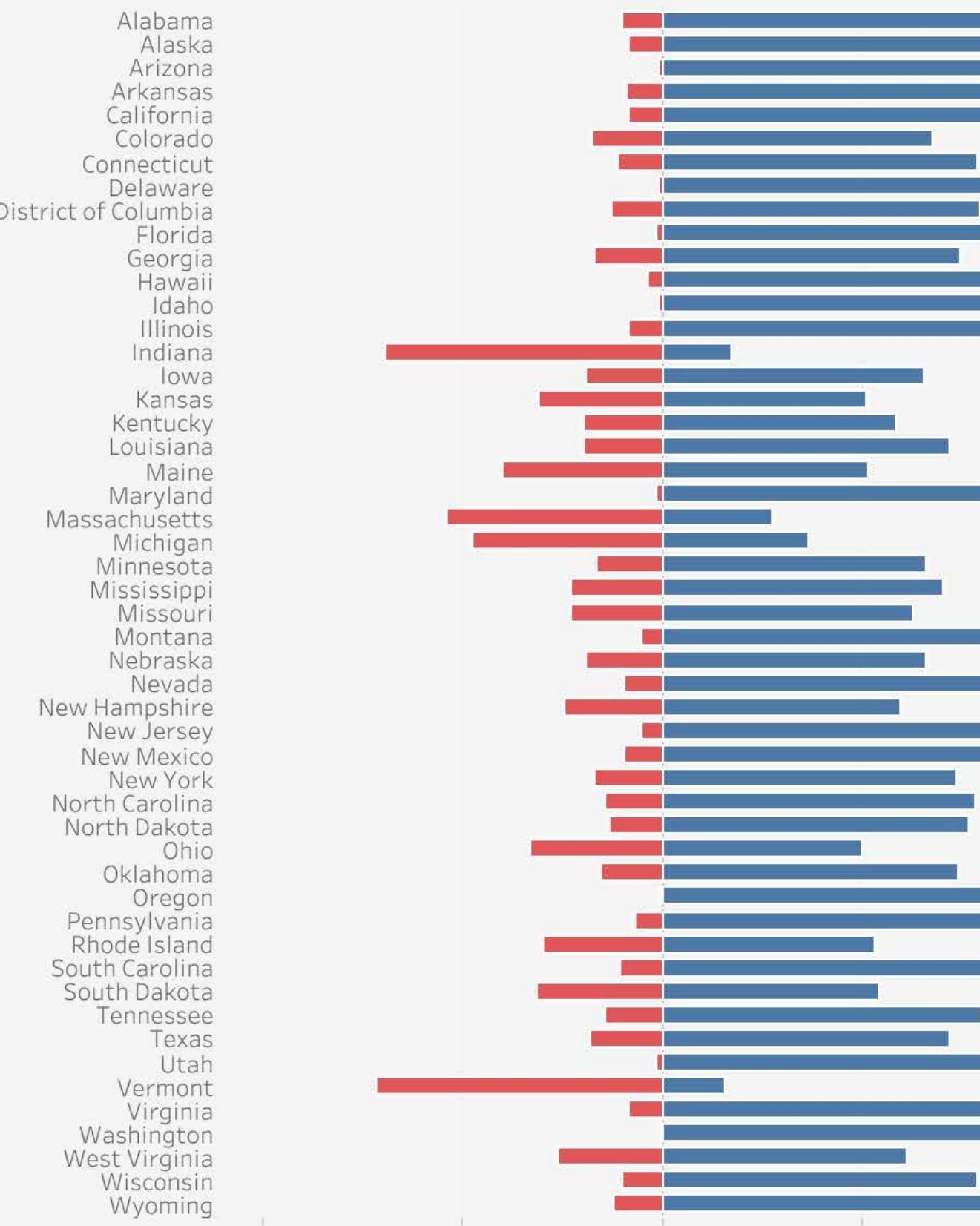


## STATE BY STATE TIMELINE

juin 2006  
Afficher l'historique



### % HOUSE INCREASING OR DECREASING IN VALUE



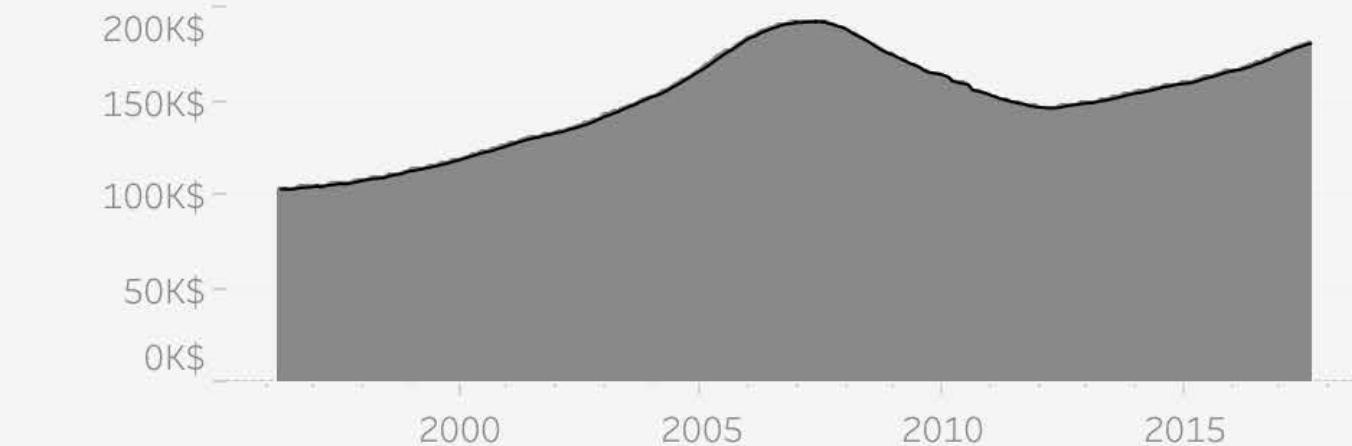
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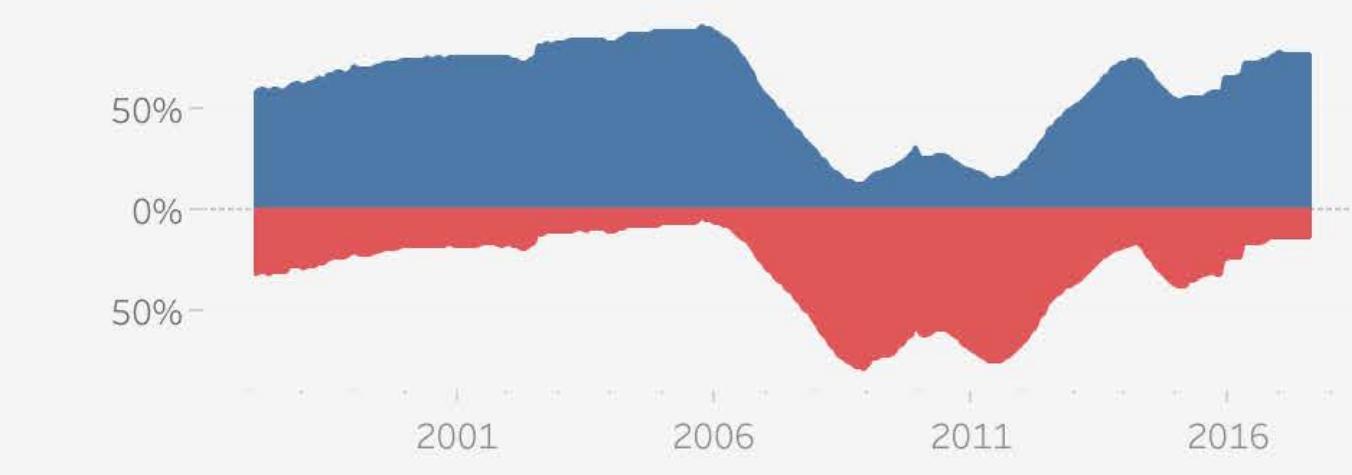
State  
Tout

City, State  
Tout

### MEDIAN HOUSE VALUE EVOLUTION

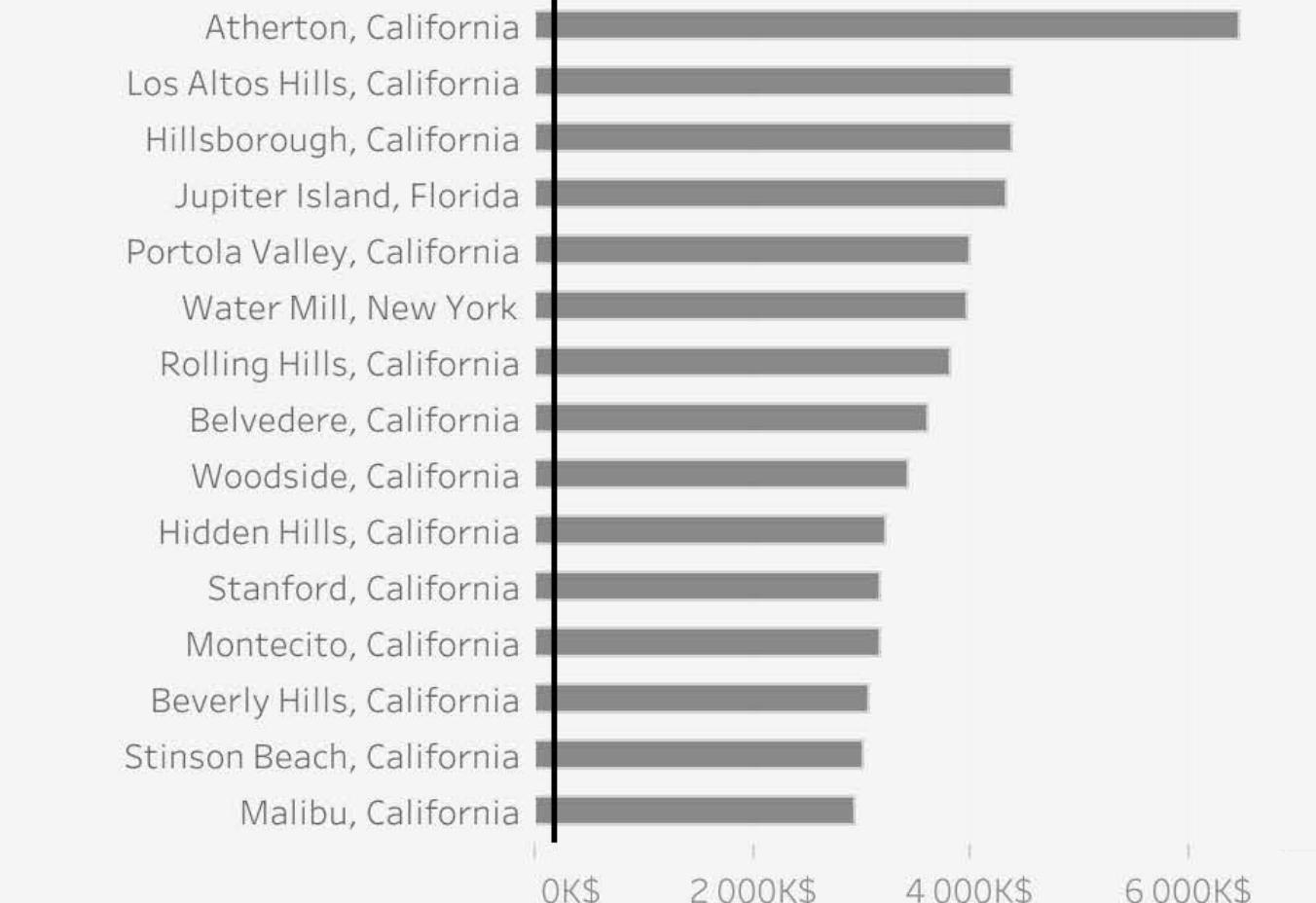


### % HOUSE INCREASING OR DECREASING IN VALUE



### CURRENT MEDIAN HOUSE VALUE PER CITY

Click on a bar to see the house to sell



2014

2015

2016

2017

2018

2019

2020

JOB

PASSION



**The key to keep  
growing your skills**

2014

2015

2016

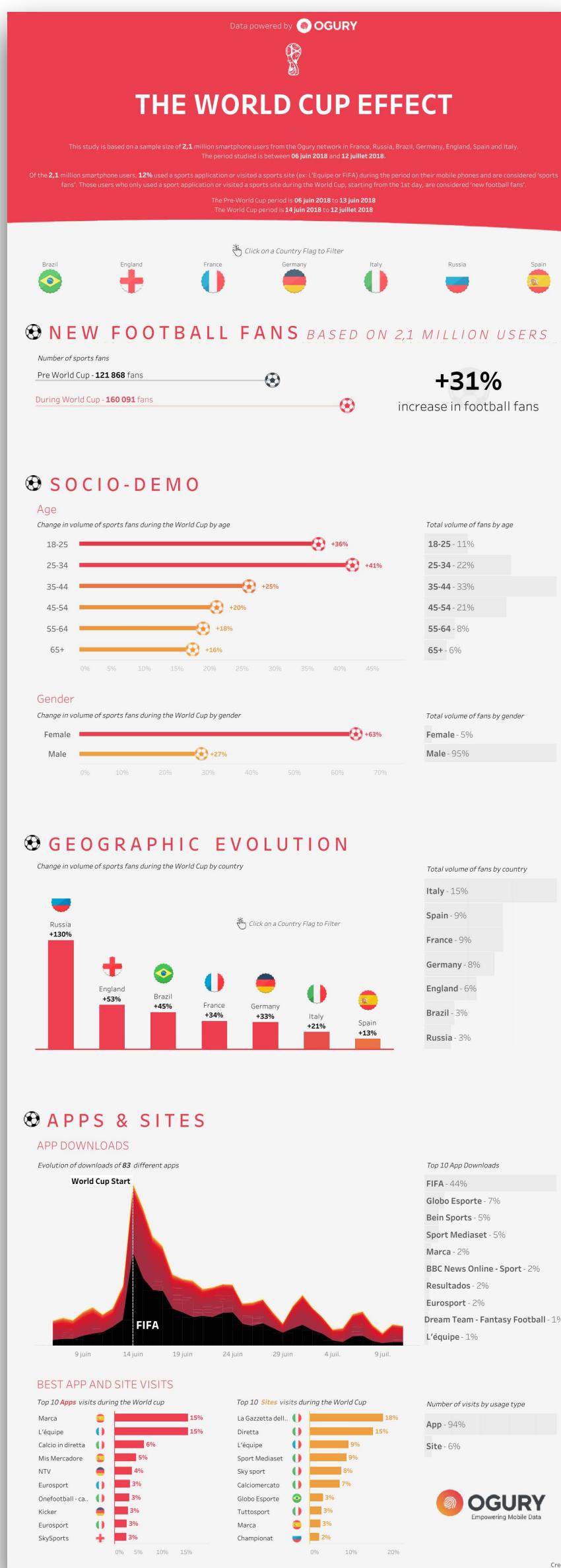
2017

2018

2019

2020

# JOB PASSION



2014

2015

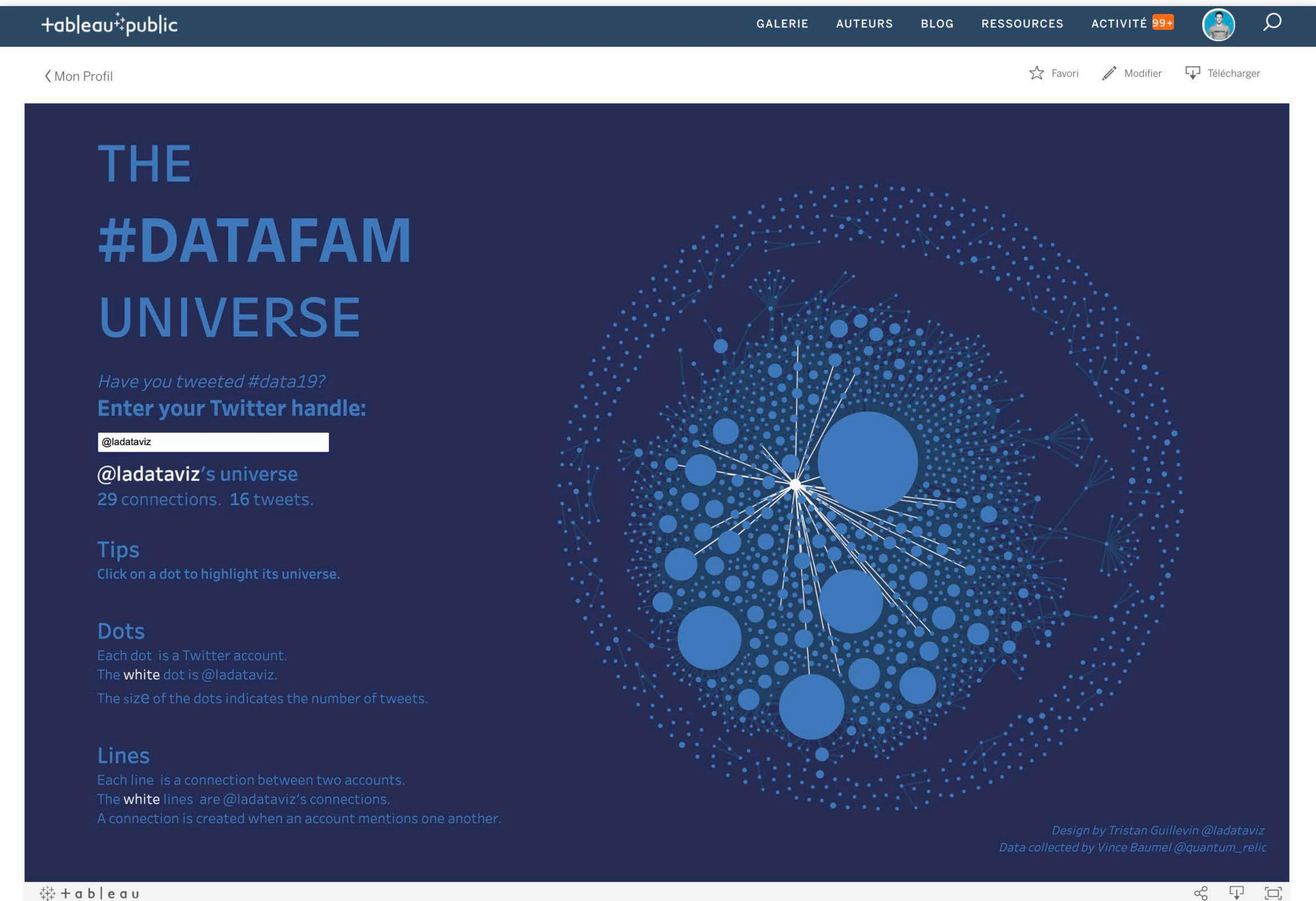
2016

2017

2018

2019

2020



2014

2015

2016

2017

2018

2019

2020

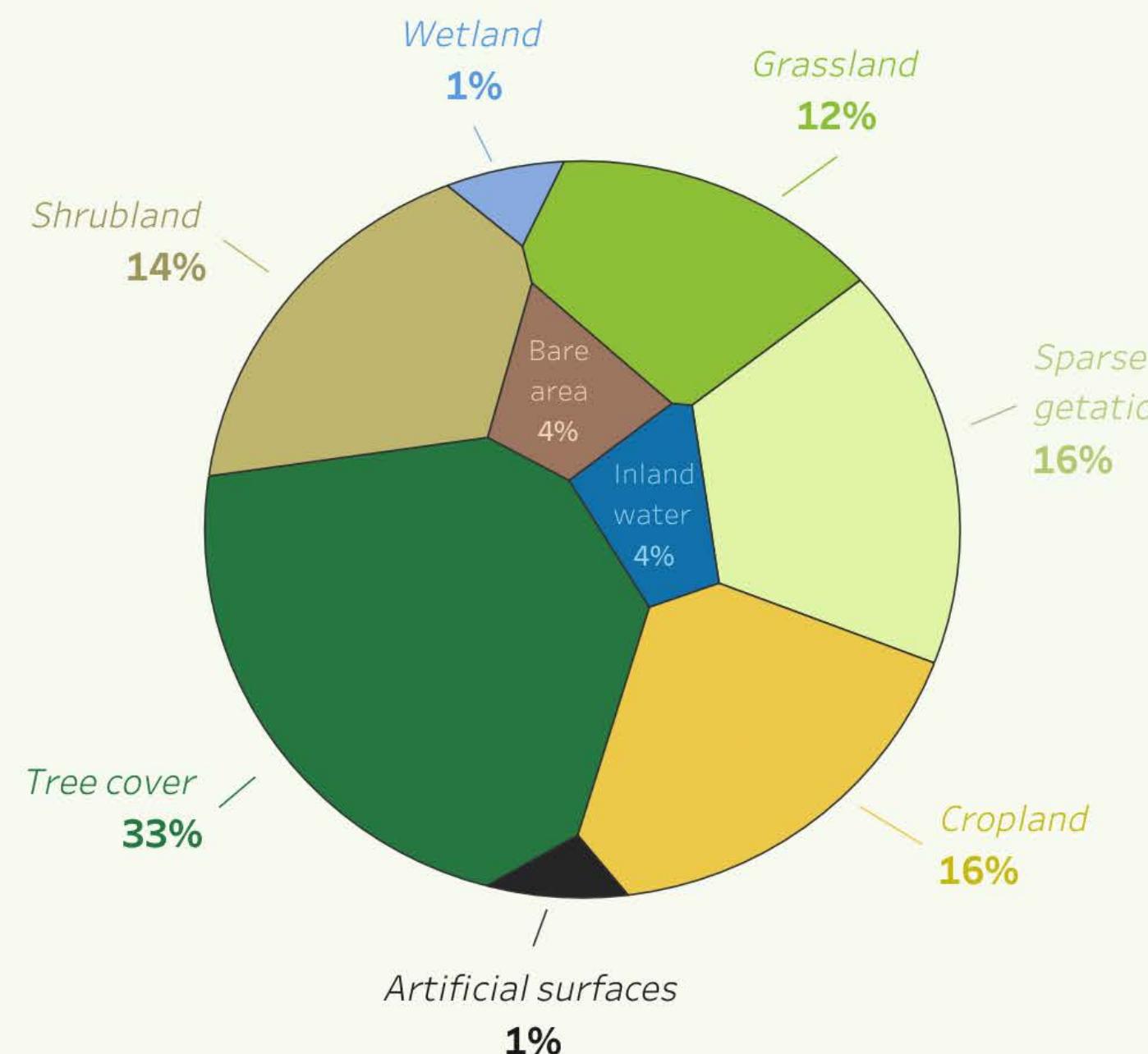
# LAND OF COLORS

- in OECD\* Countries -



Percentage of Land Cover in OECD Countries

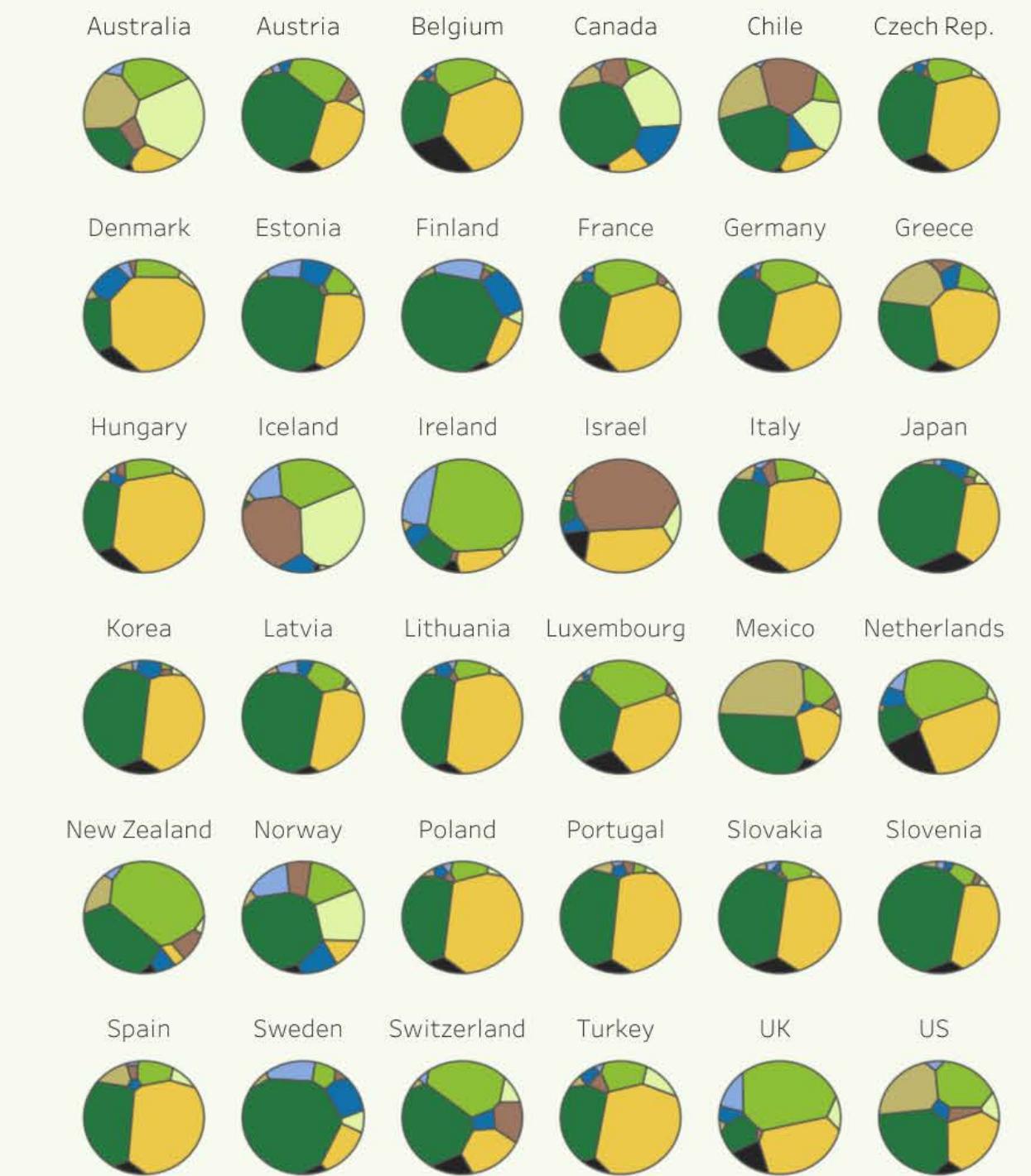
Click on a land type to highlight



OECD Countries Details

Sort: Alphabetically

Click on a country to display it on the left



\*The Organisation for Economic Co-operation and Development (OECD) is an intergovernmental economic organisation with 36 member countries, founded in 1961 to stimulate economic progress and world trade.

Data: [https://stats.oecd.org/Index.aspx?DataSetCode=LAND\\_COVER#](https://stats.oecd.org/Index.aspx?DataSetCode=LAND_COVER#)  
Inspired by [https://www.instagram.com/chromato\\_mania/](https://www.instagram.com/chromato_mania/).



2014

2015

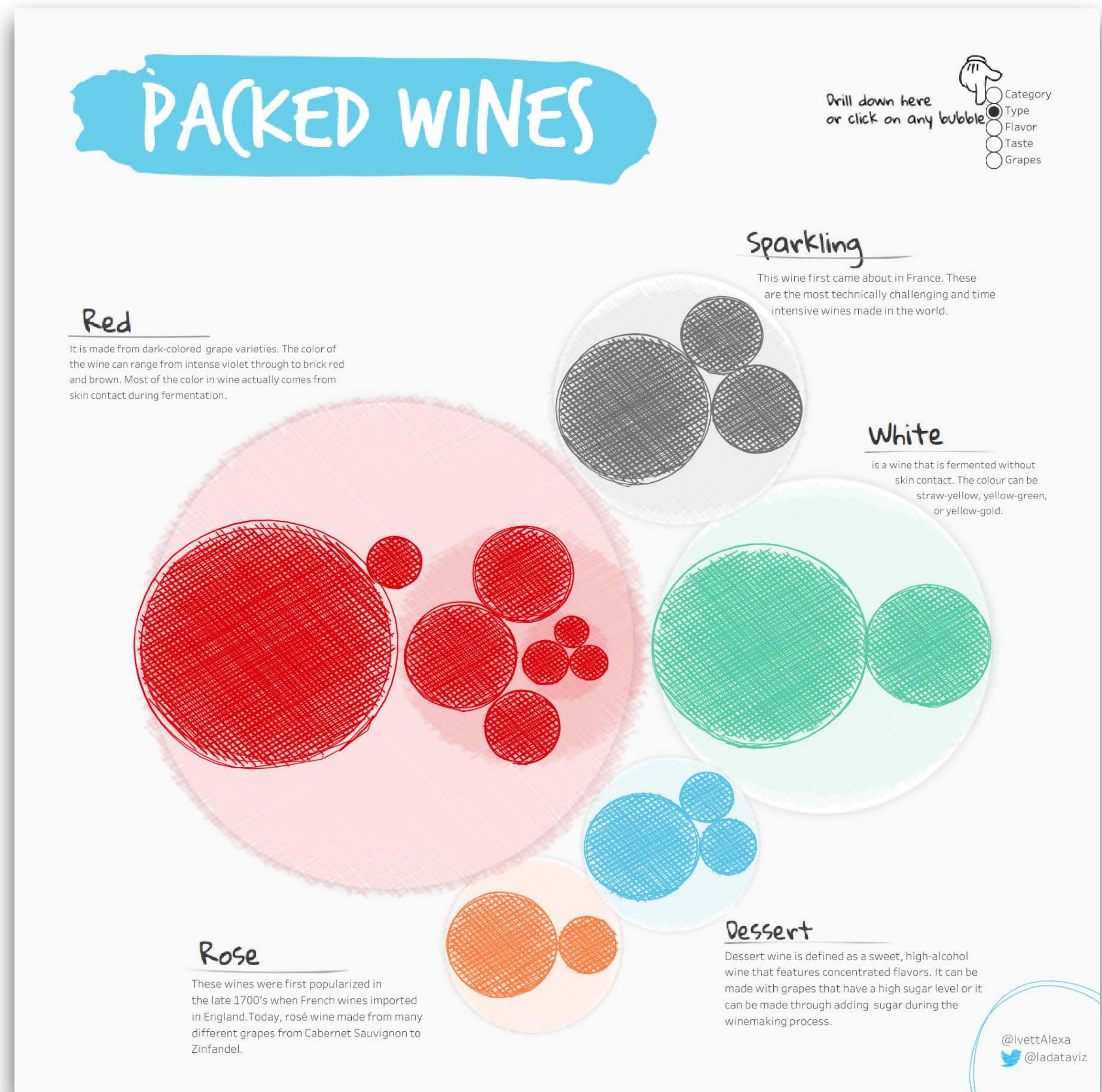
2016

2017

2018

**2019**

2020



**Collaboration  
with Ivett  
Kovacs**

2014

2015

2016

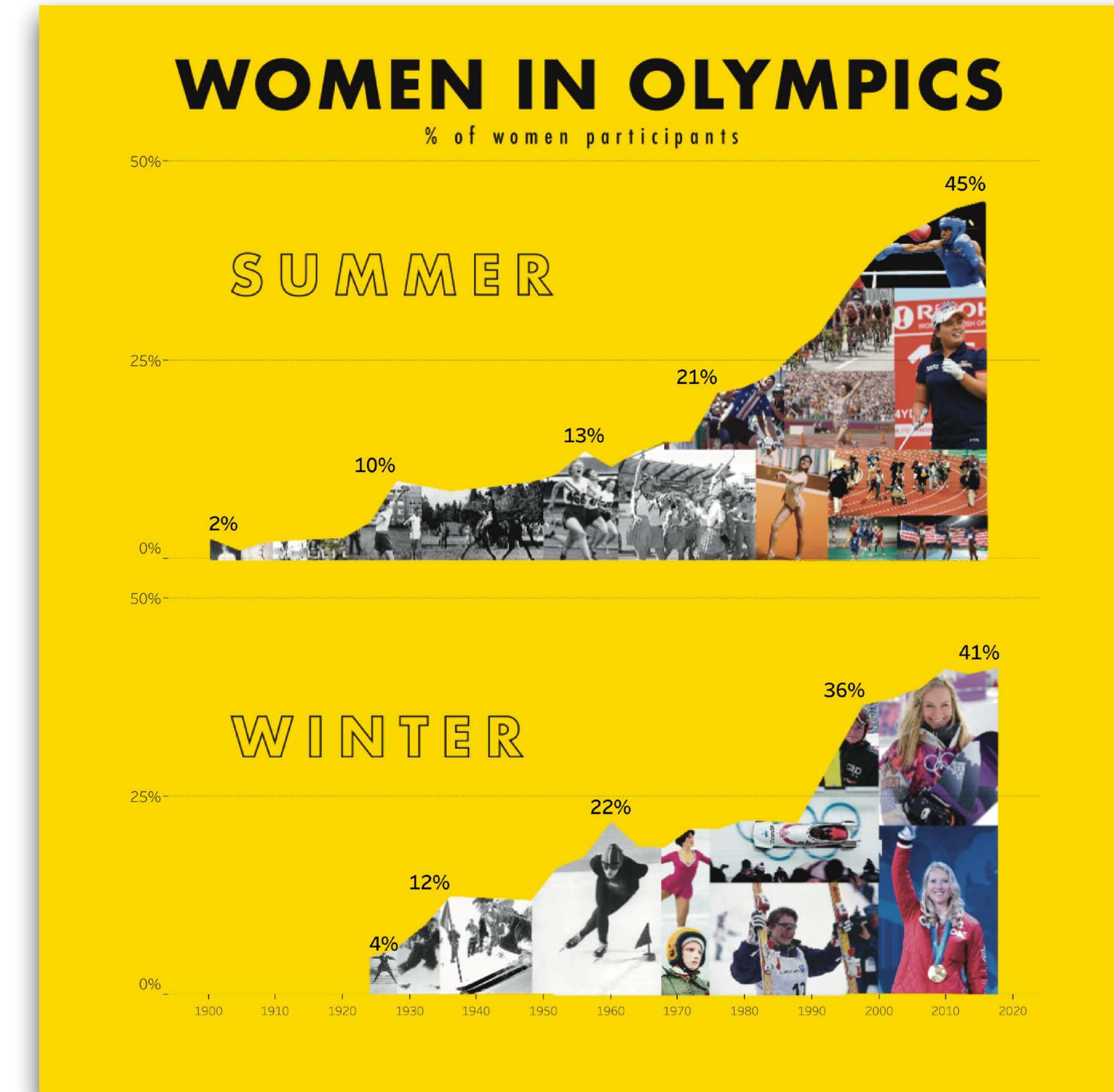
2017

2018

2019

**2020**

2021



2014

2015

2016

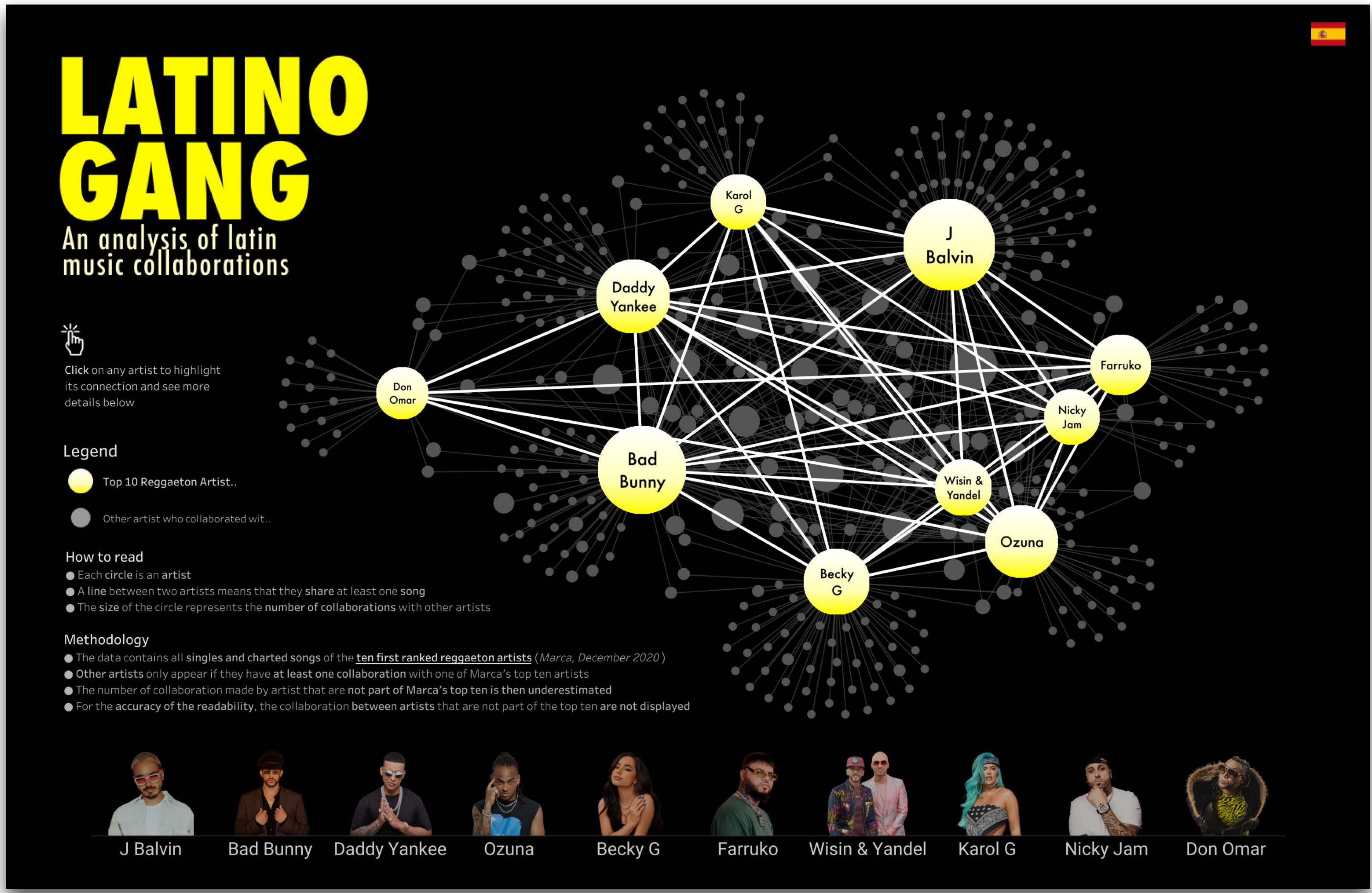
2017

2018

2019

2020

2021



JOB

AND

PASSION

@ladataviz

2014

2015

2016

2017

2018

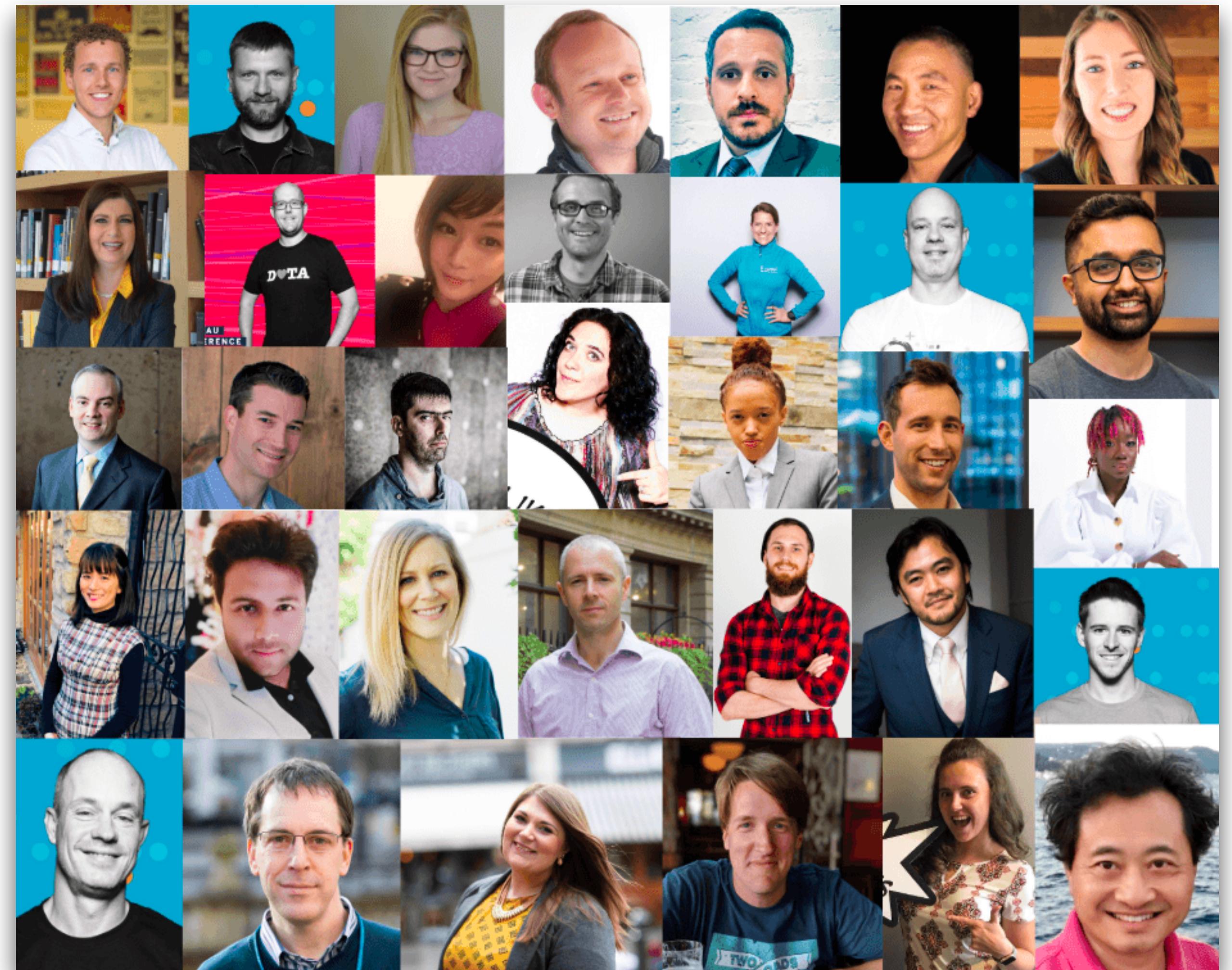
2019

2020

2021



## Tableau Zen Master



2014

2015

2016

2017

2018

2019

2020

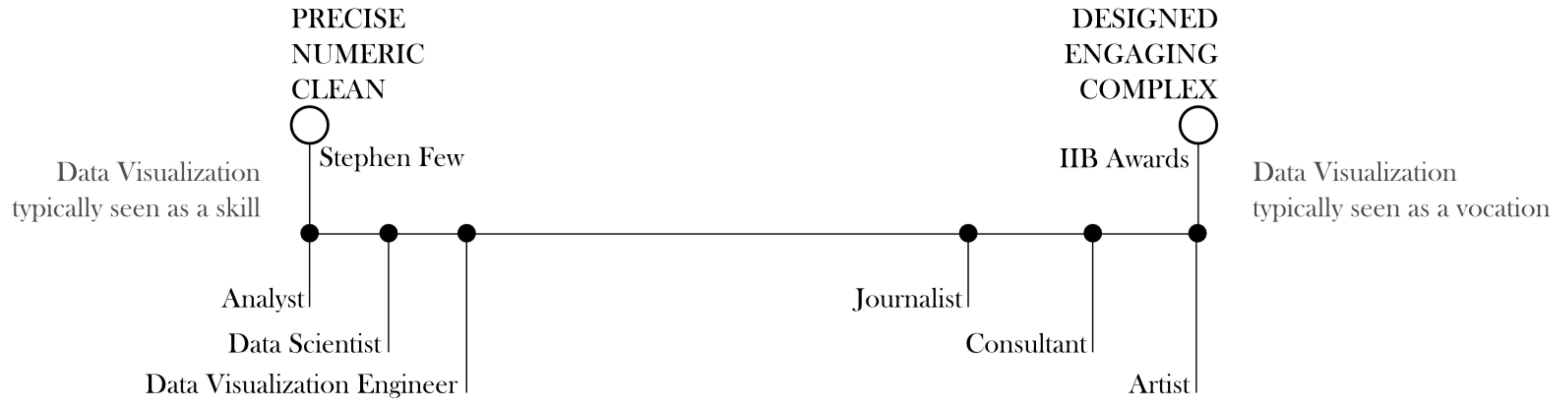
2021



**JOB**



**PASSION**



**Elijah Meeks**

[https://medium.com/@Elijah\\_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc](https://medium.com/@Elijah_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc)



PRECISE  
NUMERIC  
CLEAN



Stephen Few

Data Visualization  
typically seen as a skill



Analyst



Data Scientist

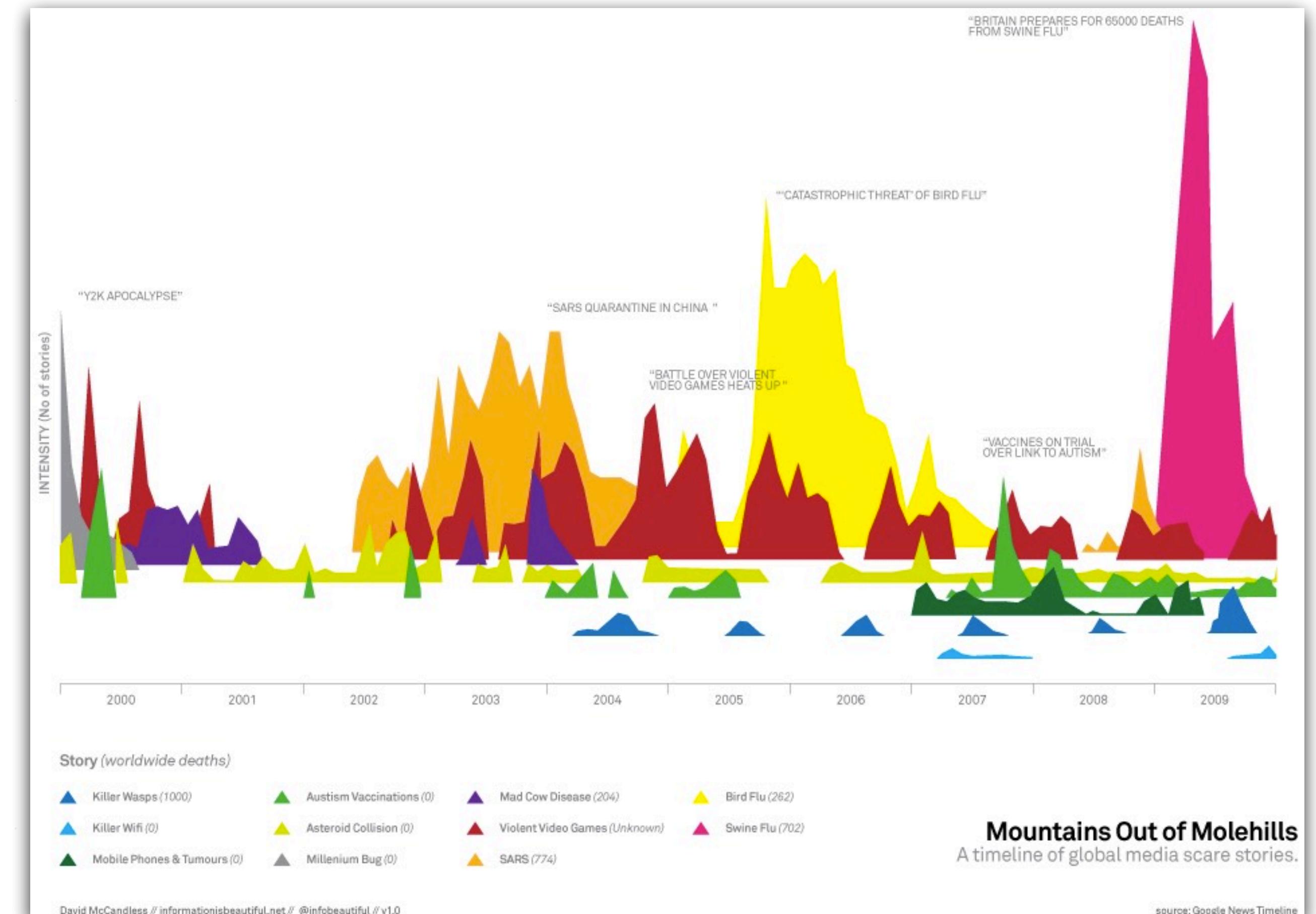
Data Visualization Engineer

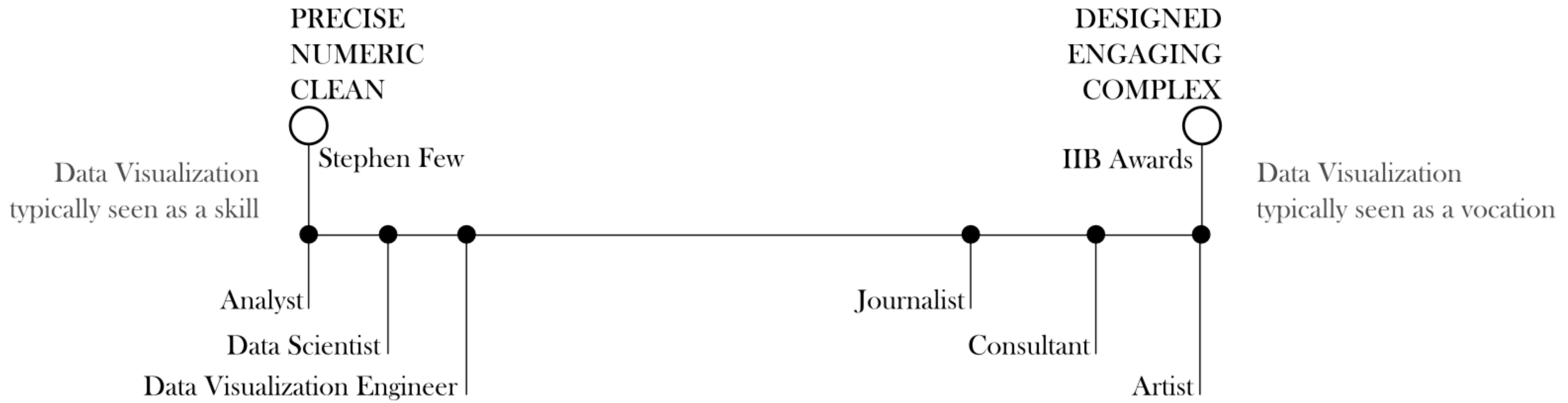
**DESIGNED  
ENGAGING  
COMPLEX**

IIB Awards

Journalist  
Consultant  
Artist

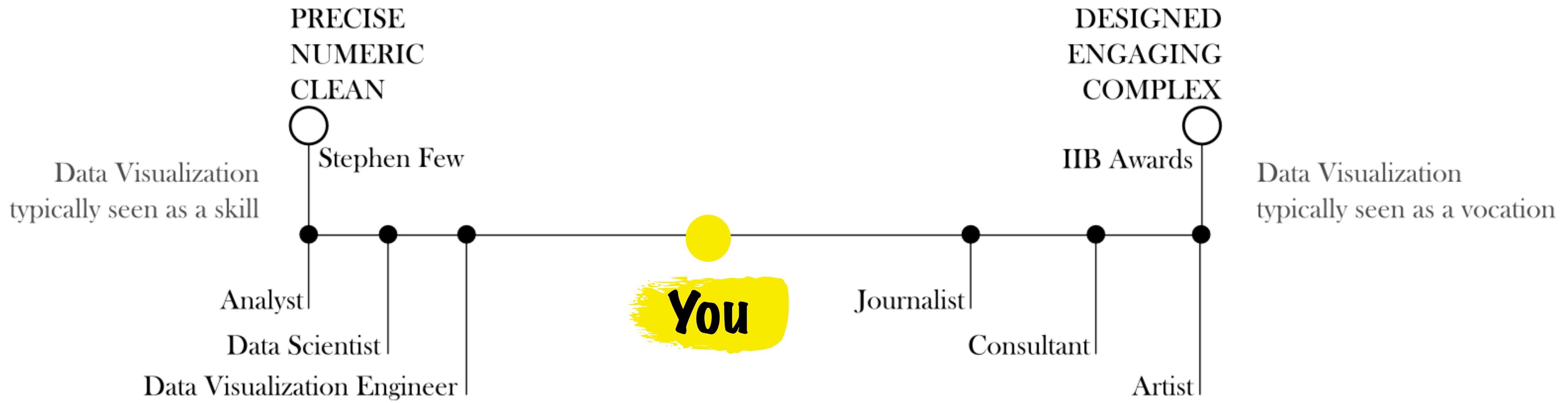
Data Visualization  
typically seen as a vocation





**Elijah Meeks**

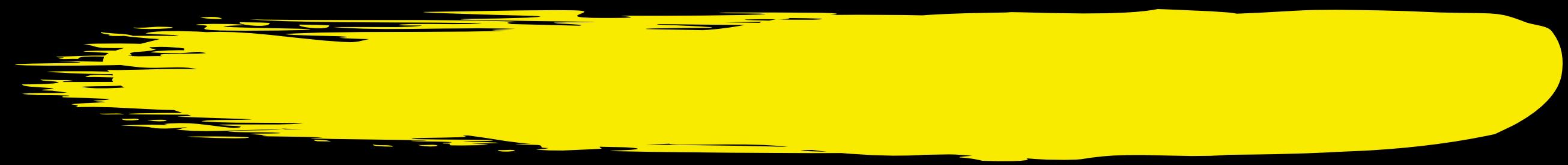
[https://medium.com/@Elijah\\_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc](https://medium.com/@Elijah_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc)



**Elijah Meeks**

[https://medium.com/@Elijah\\_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc](https://medium.com/@Elijah_Meeks/why-people-leave-their-data-viz-jobs-be1a7ab5dddc)

# Merci



---

Tristan Guillevin  
@ladataviz