

## Suicide in the World

We will use a dataset that contains a suicides rates overview between 1985 to 2016.

Our goal is to understand and explain the possible reasons for suicides throughout the years in the world.

Explanations could help reduce the results by helping the people involved.

You can see below the dataset we will used.

At the begining, there was no geolocalisation, but we added them thanks to geopy.geocoders

At it's right, you can see the type of each columns

country	year	suicides_no	suicides/100k pop	population	gdp_per_capita (\$)	Country_Con	Latitude	Longitude
Albania	1987	73	31.84999999999998	312900	796	EU	33.2588817	-86.8295337
Albania	1988	63	32.46	36400	769	EU	33.2588817	-86.8295337
Albania	1989	68	33.4	22500	833	EU	33.2588817	-86.8295337
Albania	1992	47	18.00000000000004	343800	251	EU	33.2588817	-86.8295337
Albania	1993	73	32.56	243300	437	EU	33.2588817	-86.8295337
Albania	1994	50	32.18000000000001	24600	697	EU	33.2588817	-86.8295337
Albania	1995	88	40.55000000000004	232900	835	EU	33.2588817	-86.8295337
Albania	1996	89	43.62	25400	1127	EU	33.2588817	-86.8295337
Albania	1997	170	77.43	236000	793	EU	33.2588817	-86.8295337
Albania	1998	154	66.52	25800	899	EU	33.2588817	-86.8295337
Albania	1999	139	69.81	25900	1127	EU	33.2588817	-86.8295337
Albania	2000	54	30.69999999999996	232000	1299	EU	33.2588817	-86.8295337
Albania	2001	119	50.61999999999999	206484	1451	EU	33.2588817	-86.8295337
Albania	2002	133	62.51000000000005	31007	1573	EU	33.2588817	-86.8295337
Albania	2003	124	58.60000000000001	49088	2021	EU	33.2588817	-86.8295337
Albania	2004	146	65.39	35526	2544	EU	33.2588817	-86.8295337

Columns	Type
country	object
year	int64
sex	object
age	object
suicides_no	int64
population	int64
suicides/100k pop	float64
country-year	object
HDI for year	float64
gdp_for_year (\$)	object
gdp_per_capita (\$)	int64
generation	object
Country_Dim	object
Country_Con	object
Latitude	object
Longitude	object

### World Map n°1-2 : Suicide in World between 1985-2016

In the second graphic, you can see an interactiv map with the amount of suicide. this is the graph without any modification (each suicide for each age, sexe, etc...)

In the second graphic, you can see an interactiv map with the amount of suicide for each country between 1985 to 2016

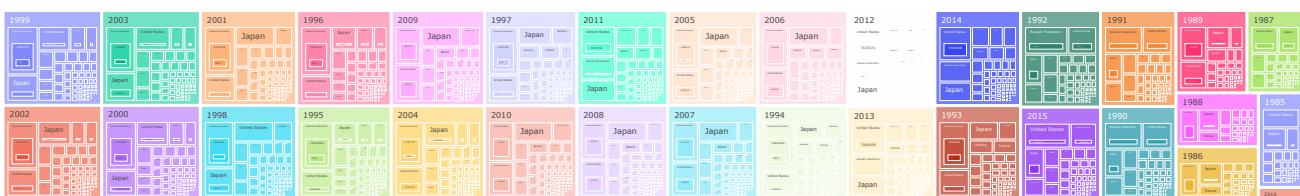
We want to show this graphic because we want to display the entire world. With that, you can search by yourself



### Tree Map n°1 : Suicide in World between 1985-2016

In this graphic, we want to display the amount of suicide for each year and compare each country

With this kind of graphic, we can see immediatly the big values for each year



### Tree Map n°2 : Suicide in World between 1985-2016

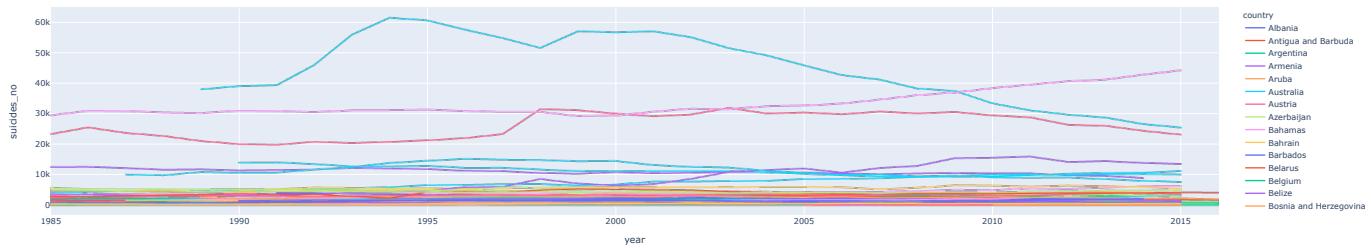
In this graphic, we want to display the amount of suicide for each country and compare it for each year

With this kind of graphic, we can see immediatly the big values like the first one but for a country



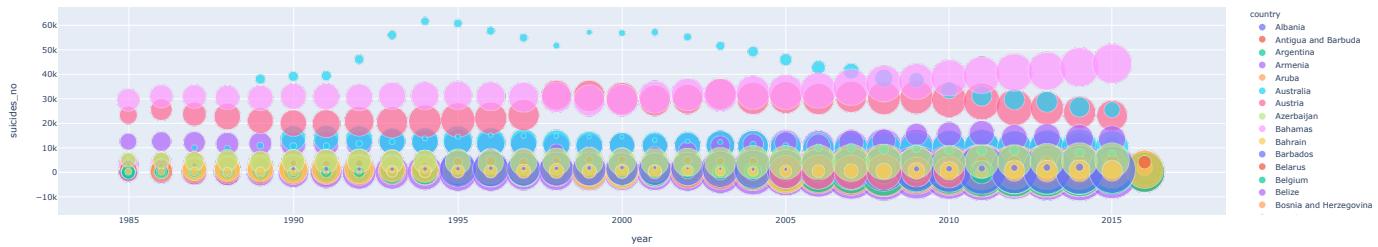
### Line Chart : Suicide in World between 1985-2016

In this graphic, we want to display the evolution of suicide for each country by the year  
With this kind of graphic we can select or unselect country that we want or not to see on the graph.



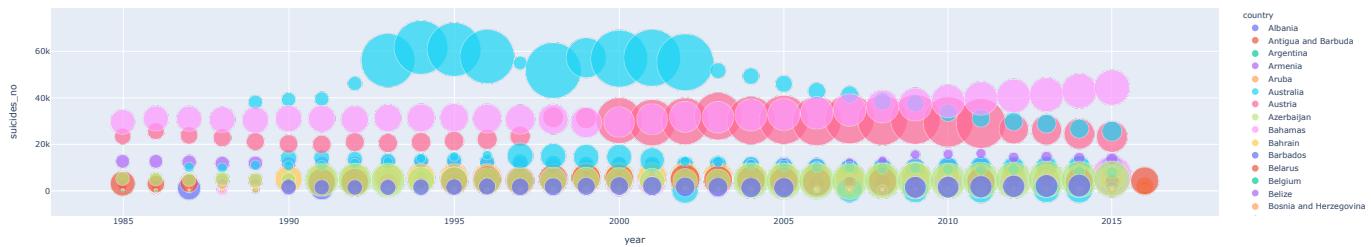
### Scatter n°1 : Suicide in World between 1985-2016

In this graphic, we want to display the evolution of suicide for each country by the year but the bubble represent the gdp per capita of the country  
With this kind of graphic we can select or unselect country that we want or not to see on the graph and see if a variable depend from an other



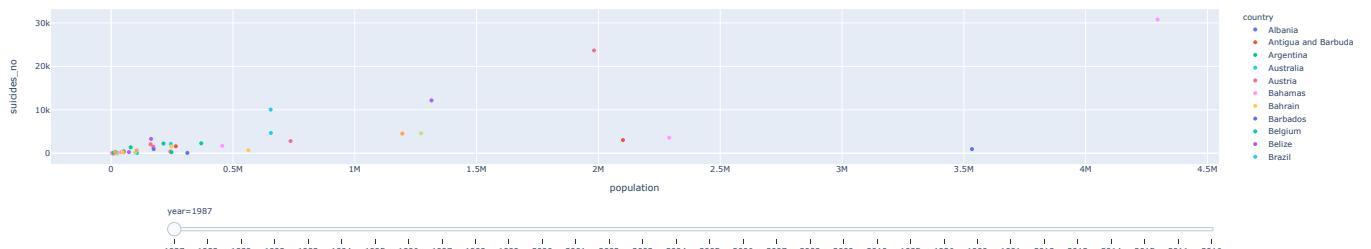
### Scatter n°2 : Suicide in World between 1985-2016

In this graphic, we want to display the evolution of suicide for each country by the year but the bubble represent the population of the country  
With this kind of graphic we can select or unselect country that we want or not to see on the graph and see if a variable depend from an other



### Scatter n°3 : Suicide in World between 1985-2016

In this graphic, we want to display the evolution of suicide for each country by the year. This time we can select the year and compare each country. We can see the population and the amount of suicide



### Box Chart : Suicide in World between 1985-2016

In this graphic, we want to display some statistic about the suicide for each country by the year.

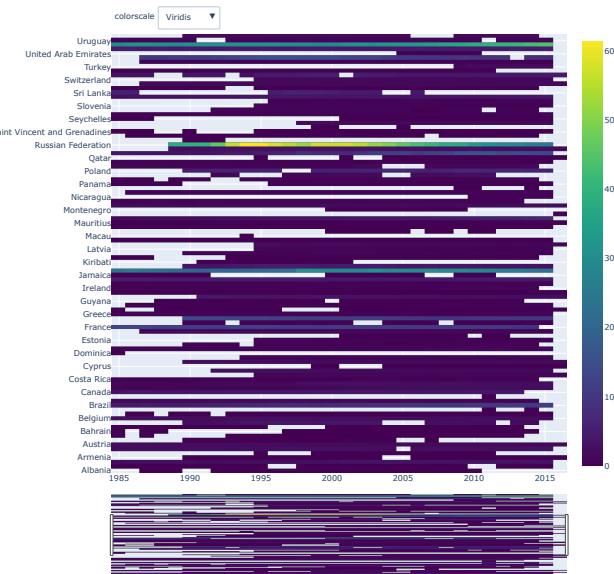


### Heat Map : Suicide in World between 1985-2016

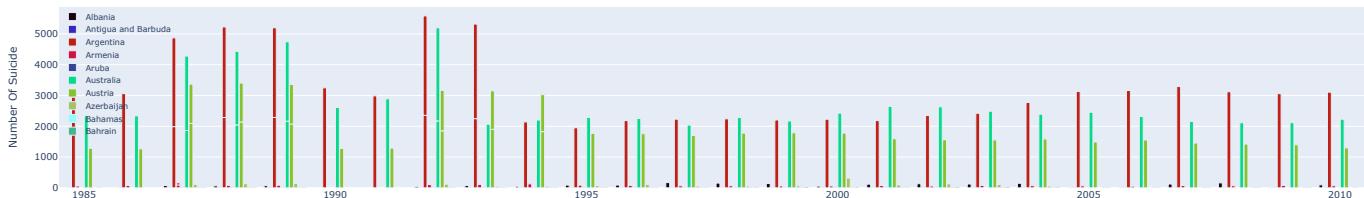
In this graphic, we want to display the amount of suicide of each country by the year and compare it with color with other country.

Thanks to this, we can see which country that has the most amount of suicide.

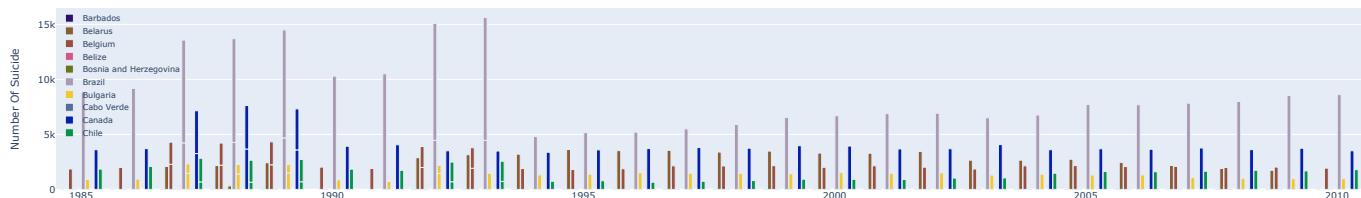
We can also change the color for a better visualisation.



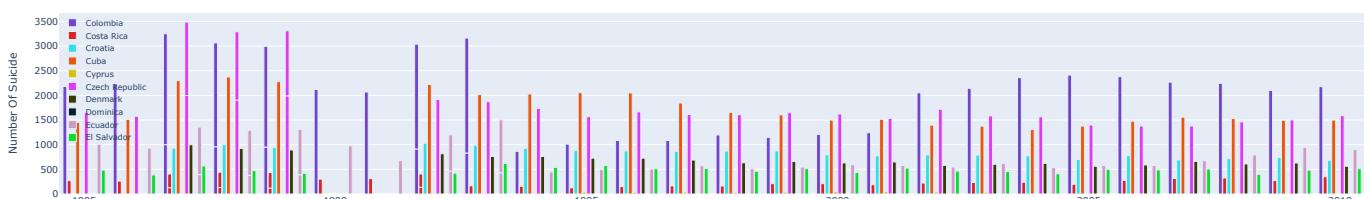
Number of Suicide per Year for each Country



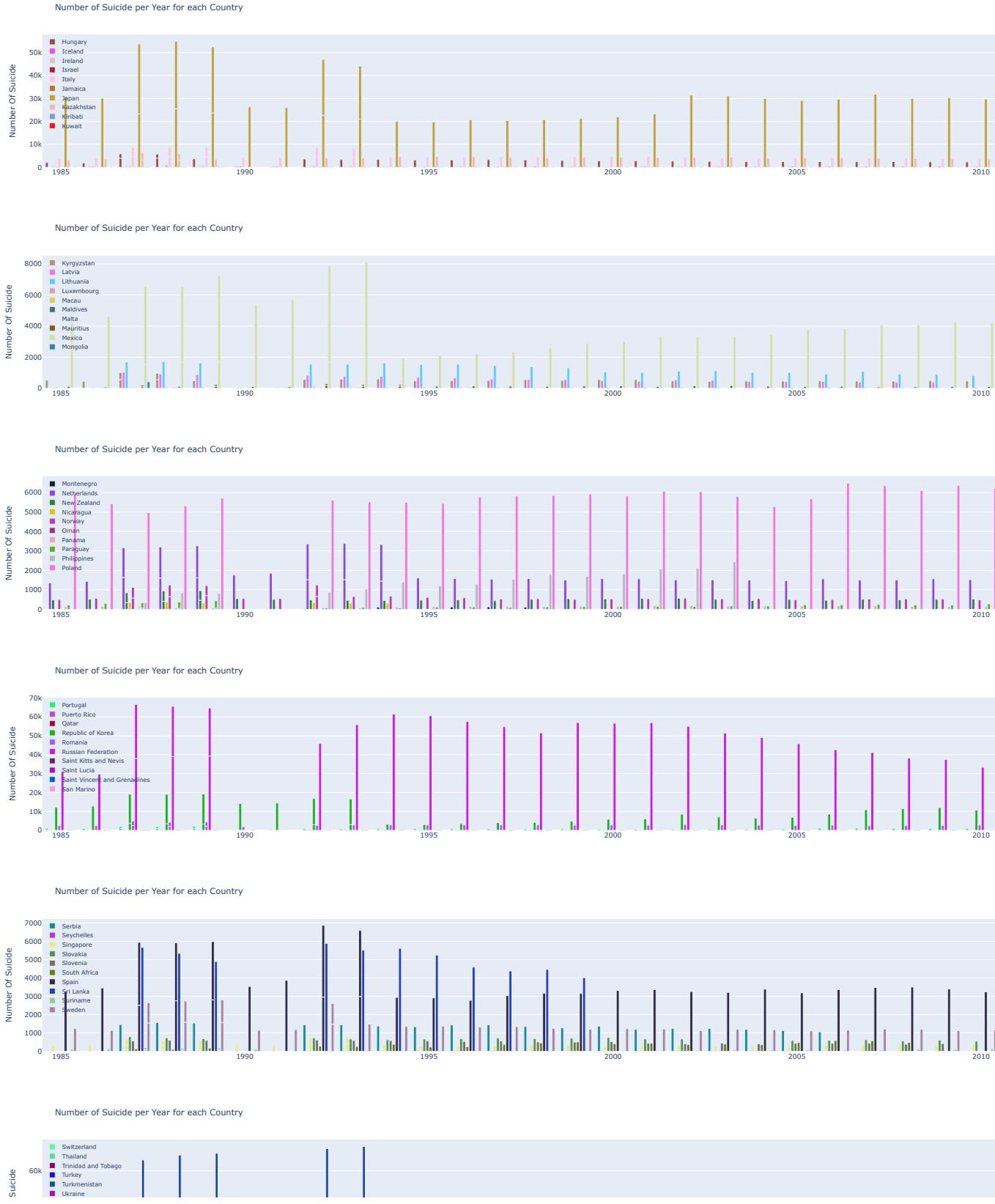
Number of Suicide per Year for each Country



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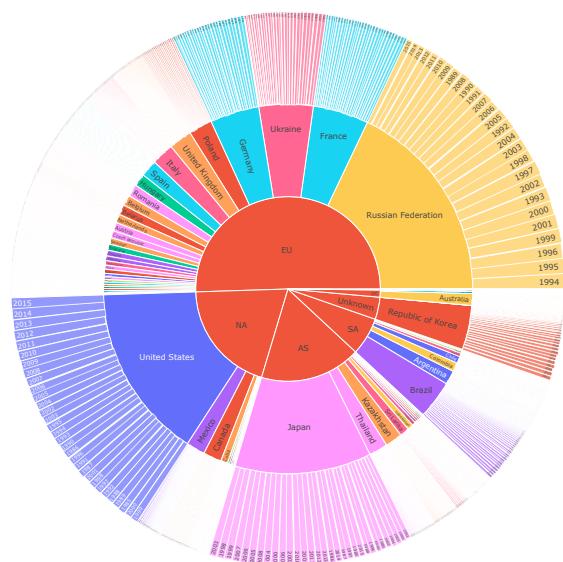


Number of Suicide per Year for each Country



### Sun Burst n°1: Suicide in World between 1985-2016

This graphic is very useful, indeed we can see the amount of suicide for each continent, each country for each year.



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