

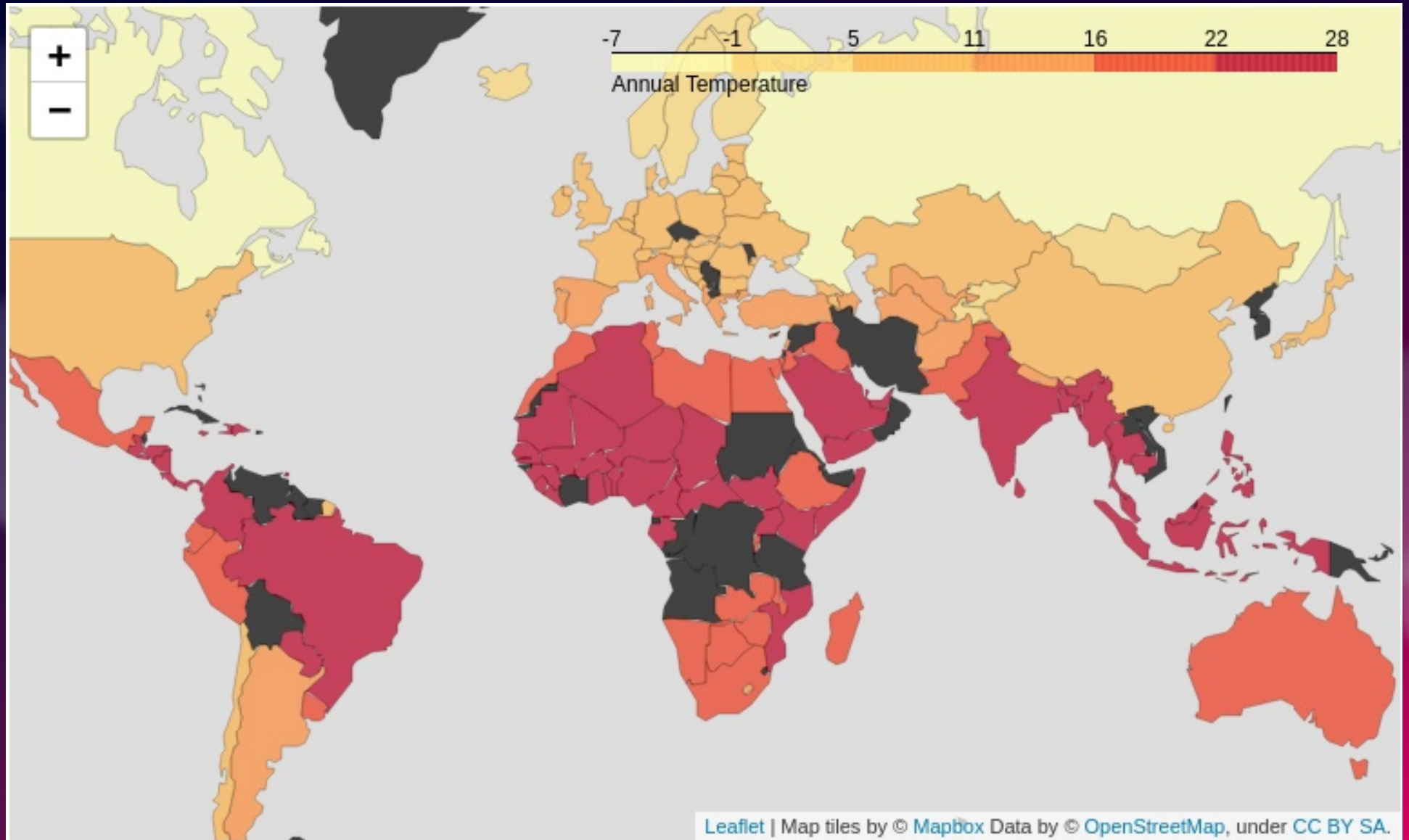
Happiness and Climate

Delf Lachmund
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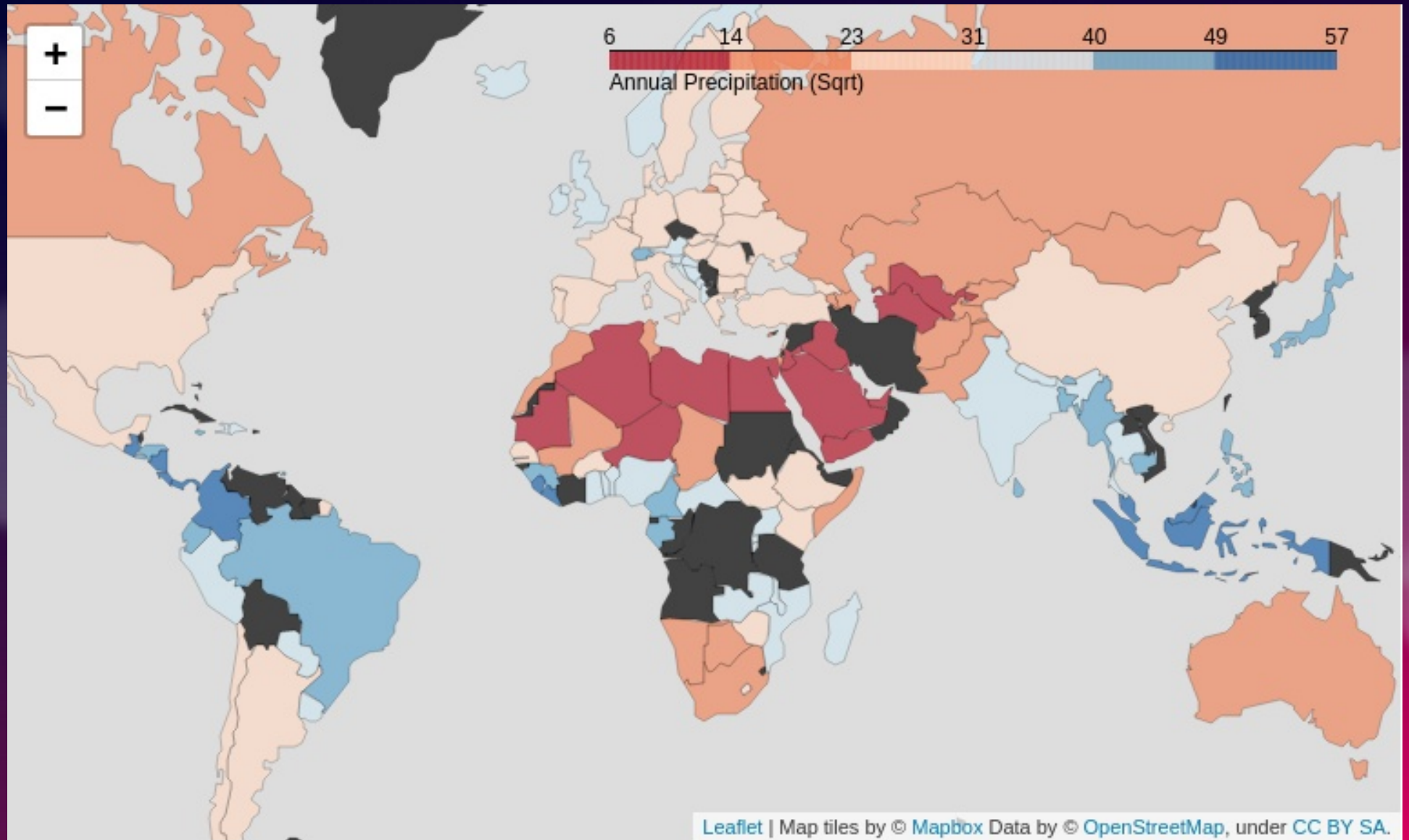
Happiness, Temperature, Precipitation

	Country	region	sub-region	Happiness score	Annual_temp	Annual_precip	Annual_precip_sqrt
0	Finland	Europe	Northern Europe	7.7689	1.347861	524.701104	22.906355
1	Denmark	Europe	Northern Europe	7.6001	7.818978	698.649857	26.431985
2	Norway	Europe	Northern Europe	7.5539	0.753892	1051.840741	32.432094
3	Iceland	Europe	Northern Europe	7.4936	1.351409	1039.821209	32.246259
4	Netherlands	Europe	Western Europe	7.4876	9.201738	766.068878	27.677949
5	Switzerland	Europe	Western Europe	7.4802	4.749057	1646.412455	40.576008
6	Sweden	Europe	Northern Europe	7.3433	1.546351	621.150333	24.922888
7	New Zealand	Oceania	Australia and New Zealand	7.3075	9.975832	1790.945674	42.319566
8	Canada	Americas	Northern America	7.2781	-7.144580	457.469053	21.388526
9	Austria	Europe	Western Europe	7.2460	6.186013	1161.183869	34.076148
10	Australia	Oceania	Australia and New Zealand	7.2280	21.506676	473.091500	21.750667
11	Costa Rica	Americas	Latin America and the Caribbean	7.1674	23.850929	3268.266166	57.168752
12	Israel	Asia	Western Asia	7.1387	19.698000	248.689445	15.769890
13	Luxembourg	Europe	Western Europe	7.0903	8.881900	848.805908	29.134274
14	United Kingdom	Europe	Northern Europe	7.0537	8.310239	1154.299742	33.974987
15	Ireland	Europe	Northern Europe	7.0211	9.107924	1110.628609	33.326095
16	Germany	Europe	Western Europe	6.9850	8.504452	713.499730	26.711416
17	Belgium	Europe	Western Europe	6.9230	9.514241	874.297532	29.568523
18	United States of America	Americas	Northern America	6.8923	6.754627	654.536673	25.583914
19	United Arab Emirates	Asia	Western Asia	6.8245	26.825609	67.812025	8.234806

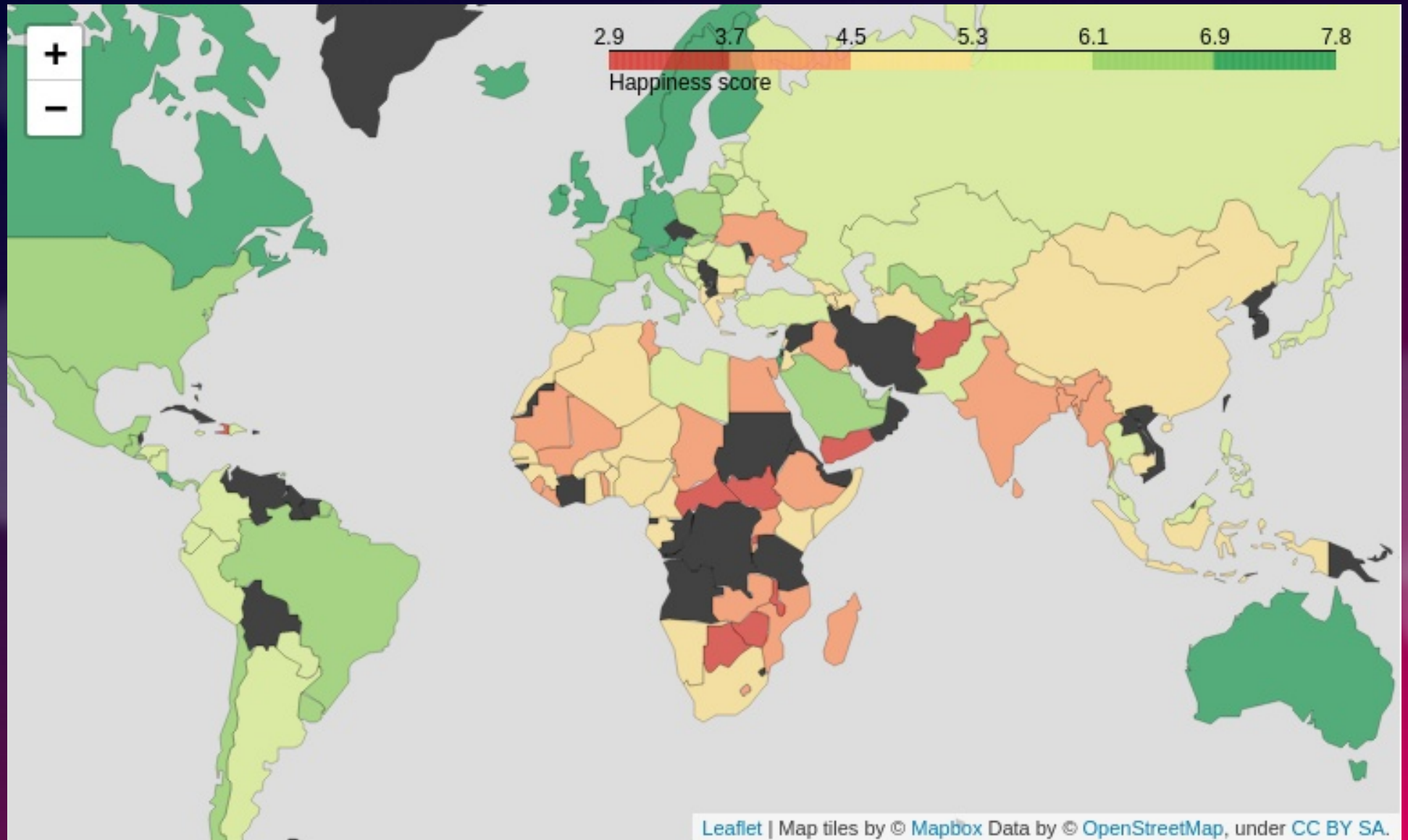
Map: Temperature



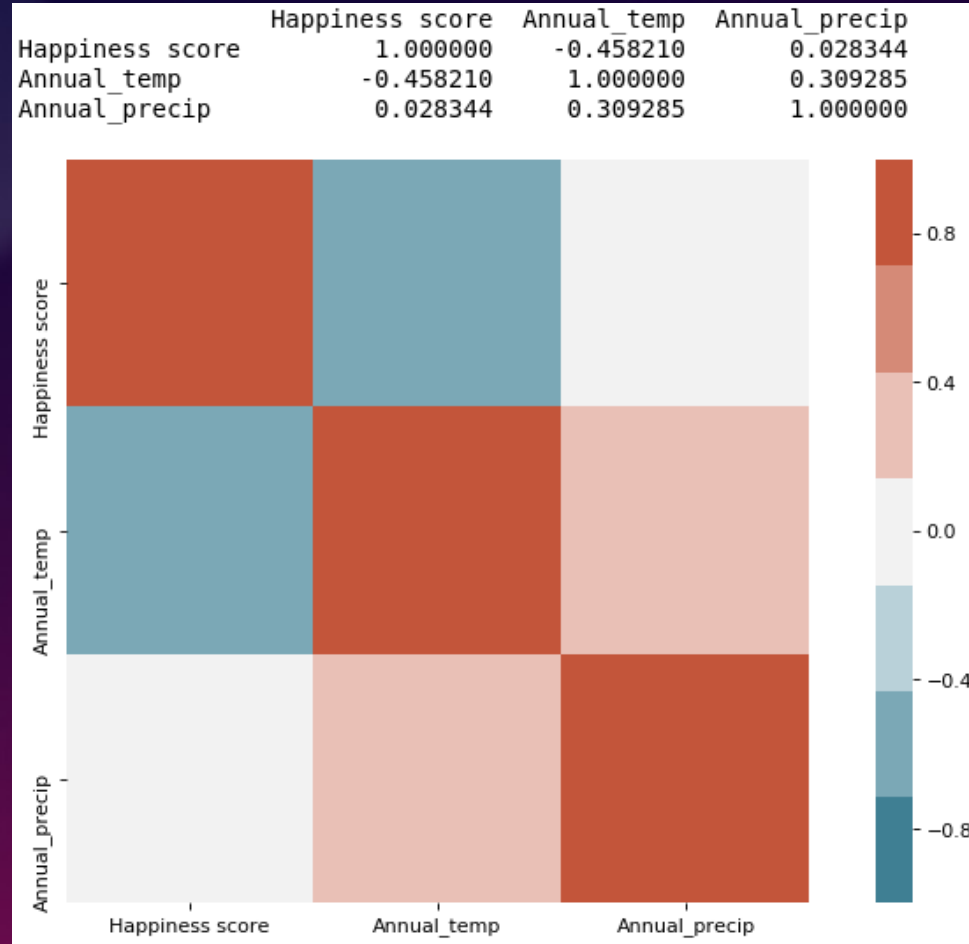
Map: Precipitation



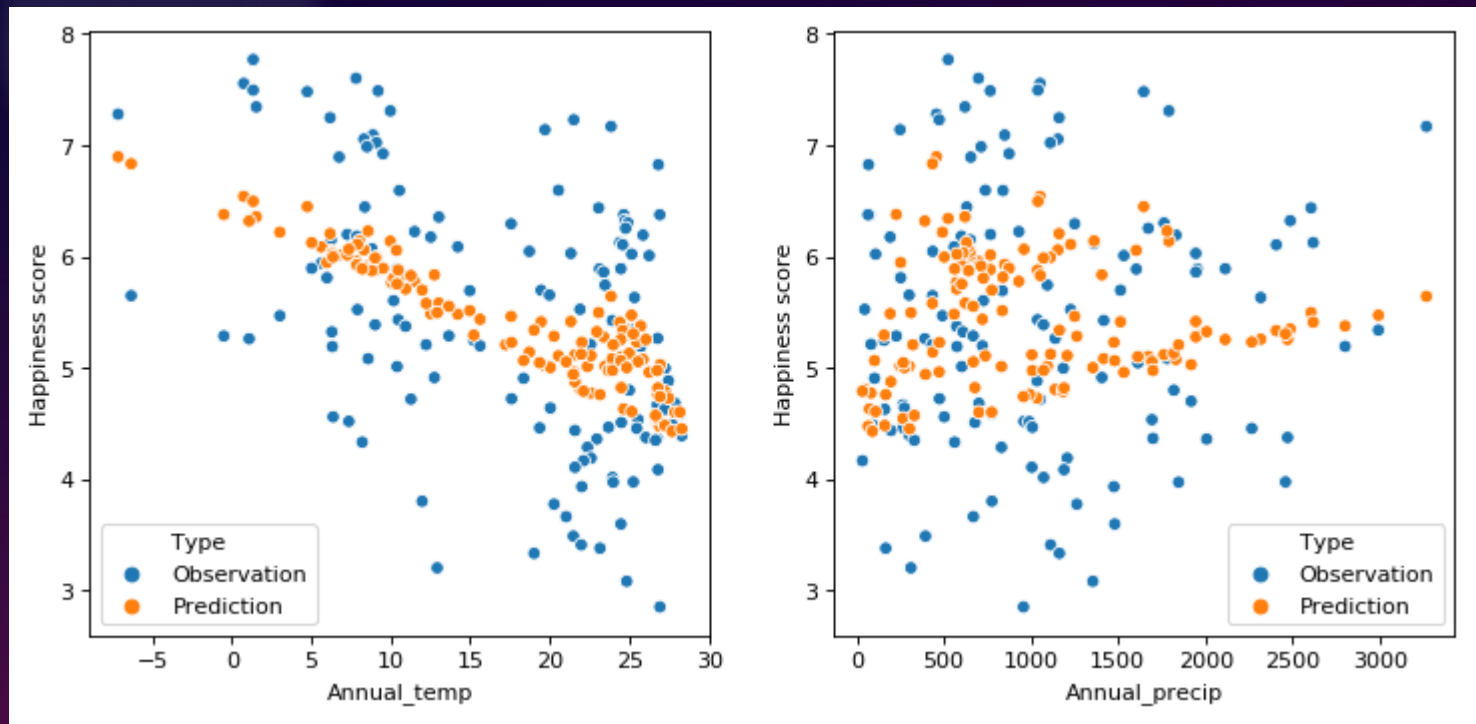
Map: Happiness



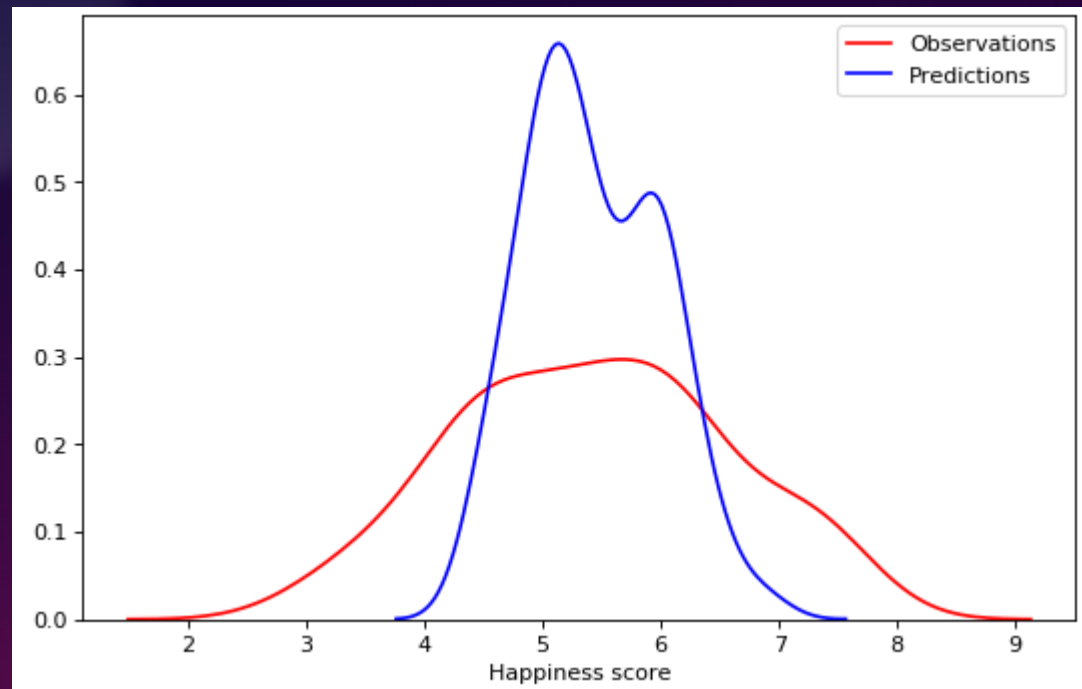
Correlations



Multilinear Regression



Histograms / Explained Var.



Explained Variance: 0.24

Conclusion

- 1) Collection of *country tables* about *happiness, temperature, precipitation*
- 2) *Neg. correlation* of $c=-0.46$ between temperature and happiness
- 3) *Multilinear regression model* predicted only rough trends
- 4) *Tight band of predictions* can be explained by low dimensionality of model
- 5) *Global warming* is going to be a challenge!

Thank you for your attention!