This is my work in R

MyFirstName MyLastName
OrganizationName
City, ZipCope, Country
username@the.rest

February 13, 2023

Abstract

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Introduction

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1 Exploring Tables

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I will soon use cross-ref.I will soon use cross-ref: as we see in Section 1.1.

1.1 Exploring Categorical Data

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You can see the statistics of a categorical variable in Table 1.1.

Table 1.1: This is a table

Democracy Level	count	pct	pct_cumm
Authoritarian	57	36.08	36.08
Hybrid regime	32	20.25	56.33
Flawed democracy	50	31.65	87.97
Full democracy	19	12.03	100.00

You can see this variable plotted in Figure 1.1 on page 3.

[1] This is a footnote.

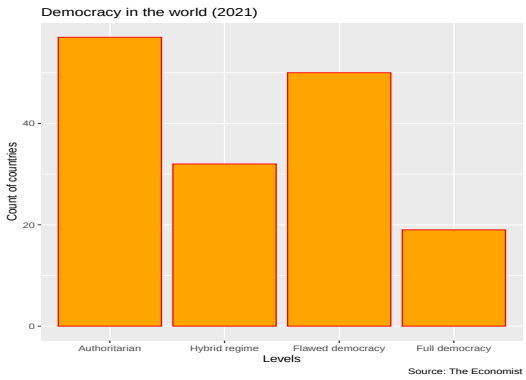

Figure 1.1: Press Freedom Index in the World

1.2 Exploring Numerical Data

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like it and read it. It has been a very hard work.

Table 1.2: Stat summary for numeric vars

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
HumanDevelopmentIndex	158	0.72	0.16	0.39	0.59	0.85	0.96
LifeExpectancyAtBirth	158	71.17	7.89	52.53	65.05	76.82	85.47
ExpectedYearsOfSchooling	158	13.60	2.98	6.96	11.51	15.70	21.05
MeanYearsOfSchooling	158	8.96	3.32	2.11	6.05	11.64	14.09
GrossNationalIncomePerCapita	158	20,126.60	20,390.02	731.79	4,552.38	30,106.04	90,918.64
Overallscore	158	5.26	2.29	0.32	3.21	7.00	9.75
Electoralprocessandpluralism	158	5.60	3.81	0.00	1.44	9.17	10.00
Functioningofgovernment	158	4.58	2.58	0.00	2.50	6.43	9.64
Politicalparticipation	158	5.40	1.95	0.00	3.89	6.67	10.00
Politicalculture	158	5.35	1.82	1.25	3.75	6.25	10.00
Civilliberties	158	5.37	2.66	0.00	3.24	7.65	9.71

In the Table 1.2, you realize that the mean of HDI is **0.72**. It would be good to see a boxplot, check Figure 1.2 below.

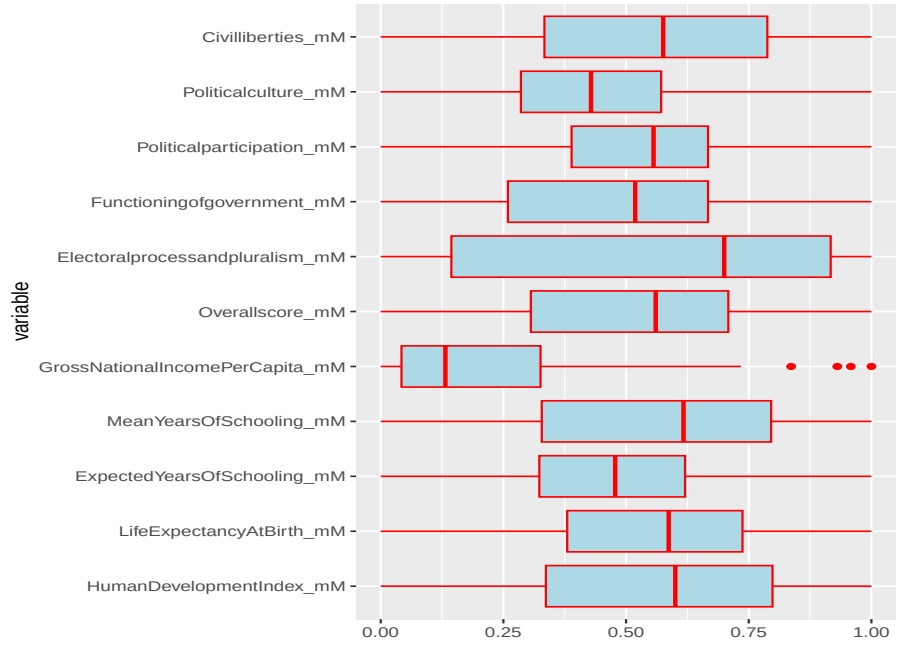

Figure 1.2: Money spent per country on Military stuff

Boxplots were introduced by Tukey (1977). You can also flip the Table 1.2, as shown in Table 1.3.

Table 1.3: Stat summary for numeric vars (flipped)

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
HumanDevelopmentIndex	158	0.72	0.16	0.39	0.59	0.85	0.96
LifeExpectancyAtBirth	158	71.17	7.89	52.53	65.05	76.82	85.47
ExpectedYearsOfSchooling	158	13.60	2.98	6.96	11.51	15.70	21.05
MeanYearsOfSchooling	158	8.96	3.32	2.11	6.05	11.64	14.09
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Civilliberties	158	5.37	2.66	0.00	3.24	7.65	9.71

2 My Regression

Several times we need regression. This is a nice summary for two regressions, as shown in Table 2.1:

Table 2.1: Models for HDI

	Dependent variable:	
	Human Development	
	(1)	(2)
Bureaucracy	0.042***	0.036***
	(0.003)	(0.005)
Participation		0.013**
		(0.006)
Constant	0.526***	0.488***
	(0.018)	(0.026)
Observations	158	158
Log Likelihood	121.396	123.419
Akaike Inf. Crit.	−238.792	−240.837
Note:	*p<0.1; **p<0.05; ***p<0.01	

I hope you like what you see in the Table 2.1. You can learn more on regression in other book (Petrie, 2016, 150-160)

3 Other plots

3.1 A map

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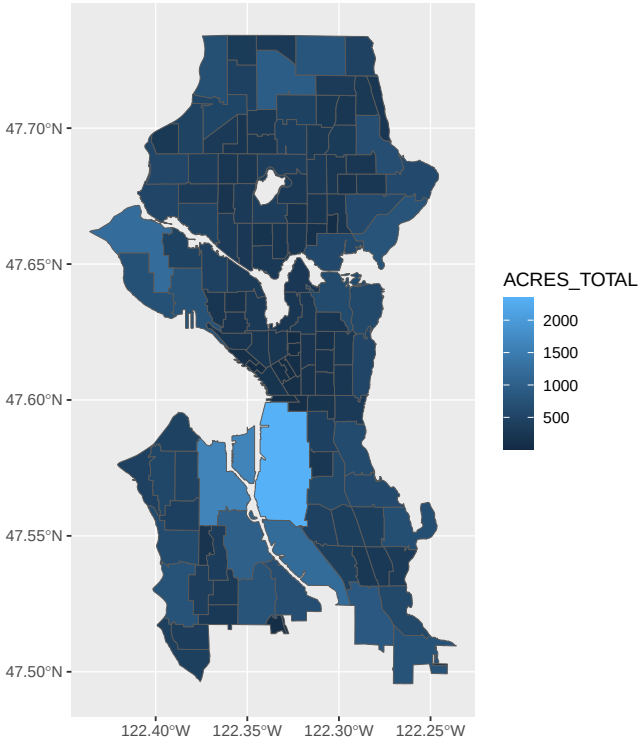

Figure 3.1: Plot numeric colums.

Figure 3.1 uses only one layer. Let's add another layer in the next map. Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it.

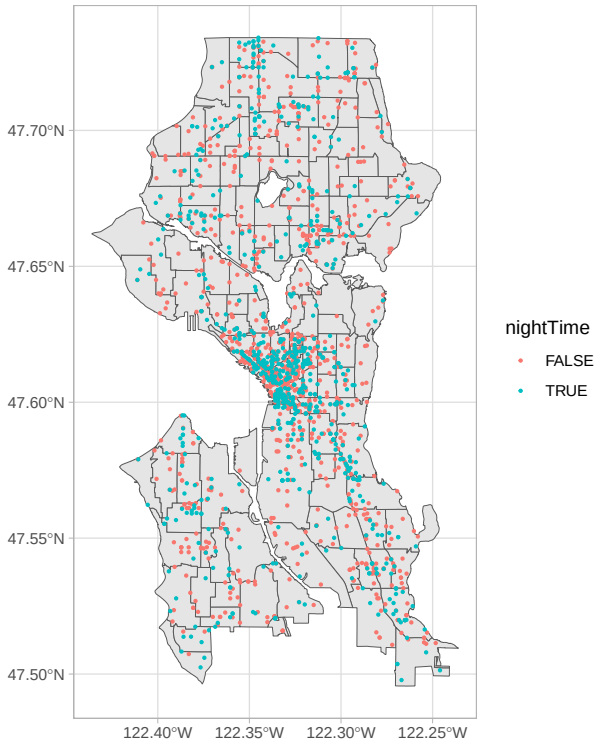

Figure 3.2: Calls to 911 by time of day.

You can see that Figure 3.2 actually uses one map on top of the other. Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it. It has been a very hard work.Here, I continue doing this nice work, I hope you like it and read it.

Review other authors (Brunsdon & Comber, 2015, 120-160; also, see Câmara, Monteiro, Fucks, & Sá, n.d.) to know more.

References

Brunsdon, C., & Comber, L. (2015). *An introduction to R for spatial analysis & mapping*. Los Angeles: SAGE.

Câmara, G., Monteiro, A. M., Fucks, S. D., & Sá, M. (n.d.). Spatial Analysis and GIS: A Primer. , 30.

Petrie, A. G. (2016). *Introduction to regression and modeling with R*.

Tukey, J. W. (1977). *Exploratory data analysis*. Reading, Mass: Addison-Wesley Pub. Co.