The student ID of the student whose paper you are grading *

24	0	9	21	۱6	7

Со	mpleteness o	f report	*						
~	Provided kernel density plots for temperature								
~	Provided Loess plots for temperature against humidity								
~	✓ Discussed data cleaning for the linguistic data								
~	Investigated two	survey q	uestions in t	terms of ge	ography an	d one anot	her		
~	Discussed dime	nsion redu	uction (e.g.	PCA)					
✓	Discussed clust	ering the s	survey respo	ondents					
✓	Assessed robus	tness of a	finding						
~	Provided code necessary to recompile the report (even if you didn't manage to recompile the report)								
Rea	adability of re	port (5 p	oints) *						
		1	2	3	4	5			
	rrative unclear d/or difficult to read	0	0	0	0	•	Narrative very clear and/or easy to read		
Grammar of report (5 points) *									
		1	2	3	4	5			
Ind	correct written grammar pervasive	\bigcirc	\bigcirc	0	•	\circ	Excellent written grammar		

Analysis: redwood trees

In this section you will assess the actual analysis using kernel density estimation and loess on the redwood trees data.

Detail of kernel density estimation analysis (3 points) *

	0	1	2	3	
Did not explore different bandwidths or kernels					Explored a variety of bandwidths and kernels and clearly related these to the bias-
					variance-tradeoff

Relevance and quality of figures related to kernel density estimation (3 points) *

	0	1	2	3	
Did not provide any figures	0	0	0	•	Provided clear, relevant and visually appealing figures

Discuss one (or more) things that you liked about the author's kernel density estimation figures *

I like that the author adds shadow under the density curve, and that different bandwidths are included in one figure.

Discuss one (or more) things that could be improved for the author's kernel density estimation figures *

The figure is very visually appealing overall. I would suggest maybe just add 2 or 3 bandwidths in one figure though. Now it seems hard to compare bw=.5 with bw=1.

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Detail of loess smoothing analysis (3 points) *					
	0	1	2	3	
Did not conduct an analysis using a loess smoother	0				Explored a variety of bandwidths and polynomials and clearly related these to the bias- variance-tradeoff
Relevance and qu	uality of fi	gures relate	d to loess s	smoothing	(3 points) *
	0	1	2	3	
Did not provide any figures	0	0		0	Provided clear, relevant and visually appealing figures
Discuss one (or r	·	igs that you	liked about	the author	's loess figures
confidence intervals a	are plotted!				
Discuss one (or r figures * could set alpha<1	nore) thir	gs that coul	d be impro	ved for the	author's loess

Analysis: linguistic survey

Level of detail in	the writter	n compariso	n betwe	en two quest	ions (3 points) *
	1	2		3	
Little detail (barely described the relationships between the two questions)					Very detailed (described clearly the geographical groups formed by each question and discussed how the questions were related to one another)
Optional comme	nts about	author's ana	alysis of	the two ques	tions
I think the correlation the author gives.	between Q5	4 and Q55 is p	robably le	ss interesting the	an the other example
Quality and releva	ance of fig	jures (e.g. m	naps) for	r the two ques	stions (3 points)
	0	1	2	3	
Did not provide figures	0		0		Provided clear, informative, and visually appealing figures
Discuss one (or r	nore) thing	gs that you l	liked abo	out the author	r's figure(s) *

The messages the figures convey are pretty clear. I like that the author encoded choices to english words.

Discuss one (or more) things that could have been improved for the author's figure(s) *

There's a typo in the Q54&Q55 plot (anyone-anymore). When only plotting the geographical distribution of a single answer, it might be better to use filter and set color in geom_point instead of in aes. The legend seems unnecessary. Also there are no captions for the figure, which makes it hard to follow.

Discovered that the binary encoding should be aggregated (e.g. in lat-long bins) in order to perform meaningful PCA (or other dimensionality reduction technique) (2 points) *

0 1 2 Found that PCA Did not mention was inneffective that dimensionality for binary reduction did not encoding and work well on the used aggregated binary encoded data instead (e.g. data grouped by ZIP or lat/long bins)

Discussed clustering and related these clustering results to geography (3 points) (note: deduct a point if the author used lat/long as a variable in their cluster algorithm) *

0 2 3 1 Discussed in Did not discuss detail the clustering clusters found in the data and how they related to geography

Optional comments on cluster analysis

It might be useful to leave out part of the data for validation. Could also provide a plot for the "continuum".

Quality and relevance of figures related to clustering and geography (3 points) *



Discuss one (or more) things you liked about the author's clustering figures

I really like the PCA plots, especially the size of the figures.

Discuss one (or more) things that could be improved for the author's clustering figures *

I think it suffices to show the result K=3. The plots for K=4 seem a bit irrelevant here.

Analyzed the robustness/stability of a finding (3 points) (give partial points if the author showed stability only by re-running K-means without perturbing the data) *

	0	1	2	3	
Did not study robustness					Tested in detail the robustness of their finding (e.g. using repeated data perturbations, subsamples, or bootstrapped samples)
Bonus point for on a map) (1 bo	•	ly cool visu	ıalization (i.c	e. not just	scatter points
The author ma	ide a really crea	ative map!			
Bonus point for data not require	-	-	• `	swering a	question of the
The author per	formed a really	creative anal	ysis!		

Reproducibility

In this section you will assess the reproducibility of the your peer's report. Be sure to take note of any extra README files that explain any extra steps you might need to take to recompile the report. If they have saved their figures in a separate folder, check to see whether there is a script that will automatically produce AND SAVE their figures. If not, take a point off for reproducibility.

Several people will have saved a large file (probably geocoded locations) and used this file in analysis. This is fine if they also provided clear instructions concerning how the reviewer could reproduce this file in an automated way (e.g. by running an R script or calling a function). If they rely on such a file but do not provide

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instructions about how one could reproduce this file, then take a point off for reproducibility. You do not need to actually regenerate this file. Reproducibility of report (4 points) * 3 4 Could not Could recompile recompile the the report and report figures without manual effort and got the same output as provided in the original pdf If you could not recompile the report, or got different output, explain what went wrong took some time, but managed to recompile in the end.

Readability of c	ode (4 poin	its) - be sure	e to look at a	any files ir	n the R/ folder *
	1	2	3	4	
Code very difficult to read with little documentation	0			0	Code easy to read with clear documentation

Suggestions to improve code (either provide specific examples or general comments) *

Code is easy to read in general, although comments are missing for some chunks.

Clarity of folder st	ructure (2 p	oints) *						
	0	1	2					
Many excess files not relevant to the report				The purpose of each file is clear and there are no excess files in the lab2 folder				
Optional suggestions for improving folder structure								
Concluding remar	ks							
In this section you will pro	vide some gener	al feedback to the auth	or.					
One or more thing	s that you li	ked about the re	port overall *					
The author discussed them to explain the fine		oolitical issues relate	ed to some of the	e questions, and used				
One or more thing	s that could	be improved up	on *					
I would suggest more	time be spent o	on analyzing clusterii	ng results and ro	bustness.				
Any other comme	nts that you	would like to ad	d?					

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