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

249	78	16	8

Co	mpleteness o	f report	*					
<b>~</b>	Provided kernel density plots for temperature							
<b>✓</b>	Provided Loess	plots for to	emperature	against hui	midity			
<b>~</b>	Discussed data	cleaning f	or the lingui	istic data				
<b>~</b>	Investigated two	survey qu	uestions in 1	terms of ge	ography and	d one anot	her	
<b>~</b>	Discussed dime	nsion redu	ıction (e.g.	PCA)				
<b>~</b>	Discussed clust	ering the s	survey respo	ondents				
<b>~</b>	Assessed robus	tness of a	finding					
<b>✓</b>	Provided code n the report)	ecessary 1	to recompile	e the report	(even if you	ı didn't ma	nage to recompile	
Rea	adability of re	port (5 p	oints) *					
		1	2	3	4	5		
	rrative unclear d/or difficult to read		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	$\circ$	$\circ$	0	0	•	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 d	ensity estimation	analysis (	(3 poir	ıts) *
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	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	Provided clear, relevant and visually appealing figures

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

Nice use of clear histogram to match the density estimation.

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

Could have combined these two plots to make a more interesting comparison (i.e., multiple bandwidths for multiple shapes)

Detail of loess smoothing analysis (3 points) *					
	0	1	2	3	
Did not conduct an analysis using a loess smoother	0		0		Explored a variety of bandwidths and polynomials and clearly related these to the bias- variance-tradeoff
Relevance and q	uality of fi	gures relate	d to loess s	moothing	(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	more) thin	gs that you	liked about	the author	's loess figures
Nice use of alpha val	ue to show	point density.			
					-
Discuss one (or more) things that could be improved for the author's loess figures *  Again, could have combined these two plots to make a more interesting comparison (i.e., multiple bandwidths for multiple polynomials)					
•					

Analysis: linguistic survey

Level of detail in the written comparison between two questions (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 a	author's ana	lysis of the	e two ques	tions
Good answer.					
Quality and releva	ance of fig	ures (e.g. m 1	aps) for th	ne two que	stions (3 points)
Did not provide figures	0		0		Provided clear, informative, and visually appealing figures
Discuss one (or r	nore) thing	gs that you l	iked about	the autho	r's figure(s) *
Good use of labeling	the figures so	o I didn't have t	o refer to you	ır paragraph	and nice legend.
Discuss one (or r figure(s) *	nore) thing	gs that could	d have bee	n improve	d for the author's

Maybe consider titling the figures, but I don't want to nit-pick.

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	I	2	
Did not mention that dimensionality reduction did not work well on the binary encoded data  Discussed cluste points) (note: de	•		_		Found that PCA was inneffective for binary encoding and used aggregated data instead (e.g. grouped by ZIP or lat/long bins) geography (3 a variable in their
cluster algorithn	n) <b>*</b>				
	0	1	2	3	
Did not discuss clustering					Discussed in detail the clusters found in the data and how they related to geography
Optional comme	ents on clu	ster analysi	S		
Didn't notice the zip	code aggrega	ation, and colo	red PCA by lo	ngitude	
Quality and releve points) *	vance of fig	gures relateo	d to cluster 2	ing and ge	eography (3
No figures provided	0	0	0	•	Provided clear, informative, and visually appealing figures

Discuss one (or *	more) thin	gs you liked	l about the a	author's c	lustering figures
Figures were clear					
D: /	\ . I ·	.1		16 .1	
Discuss one (or clustering figure	•	gs that cou	a be improv	ed for the	e autnor's
Maybe include titles	on graphs				
Analyzed the rob if the author sho the data) *		•	• .	, , , ,	ve partial points ithout perturbing
	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	· .	rly cool visu	ıalization (i.d	e. not just	scatter points
The author mad	e a really crea	ative map!			
Bonus point for data not require	-			swering a	a question of the
The author perf	ormed a really	y 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 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	of report (4	points) *			
	1	2	3	4	
Could not recompile the report  If you could not went wrong	recompile	the report, o	or got differ	ent output,	Could recompile the report and figures without manual effort and got the same output as provided in the original pdf
Readability of co	ode (4 poin	its) - be sure	e to look at	any files in	the R/ folder *
	1	2	3	4	
Code very difficult to read with little documentation					Code easy to read with clear documentation

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

Nice code. Great com	nmenting.				
Clarity of folder s	tructure (2 po	oints) *			
	0	1	2		
Many excess files not relevant to the report	0	0		The purpose of each file is clear and there are no excess files in the lab2 folder	
Optional suggestions for improving folder structure					
Nice .html supplemen	t.				

## **Concluding remarks**

In this section you will provide some general feedback to the author.

One or more things that you liked about the report overall \*

Overall a clear and engaged lab report that hits all the major points of the data set.

10/20/2017 Lab 2 peer grading

### One or more things that could be improved upon \*

Maybe take a little more time to conect the analysis and conclusions drawn from the analysis. Your writing is good, your data analysis is good, now it's just about building the bridge between them. Ultimately it's not a reason I took off many (any?) points from, but since so many things went well I am trying to give some form of constructive feedback.

Any other comments that you would like to add?

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