Lab 3 GSI

Name of student *

Todd Faulkenberry

Readability of report (5 points) *

	1	2	3	4	5	
Narrative unclear and/or difficult to read and/or there is not much detail in the explanations	○	○	○	◉	○	Narrative very clear and/or easy to read and lots of detail is given

Grammar of report (5 points) *

	1	2	3	4	5	
Incorrect of written grammar pervasive	○	○	○	◉	○	Excellent written grammar

Level of written detail on comparison of R and C++ implementation and runtime *

	0	1	2	3	
Did not write about a comparison of the R and C++ implementation	◉	○	○	○	Wrote a detailed comparison between the R and C++ implementations

Correctly coded the parallelization of k-means and pairwise similarity in R/C++ (3 points) *

	0	1	2	3	
Incorrect implementations	○	◉	○	○	Seems correct to me

Comments on implementation of parallelization or the similarity measure

I am not sure exactly what is wrong but your similarity measure doesn't seem to be computing things correctly based on your Ben Hur figures, also there is no C++ code

Efficiency and practicality of R and C++ (3 points) *

	0	1	2	3	
Inefficient (e.g. repeated computations, unnecessarily saved objects, etc.)	○	○	○	◉	Very efficient and practical

Suggestions for improving efficiency of R and/or C++ code *

Looks good

Does the author satisfy the following code readability requirements? (3 points)

- ☑ Always spacing before and after variable assignment and addition symbols (" = ", " + ") and after commas
- ☐ No line of code exceeds 80 characters
- ☑ Consistent variable naming for all variables (words always separated by one of "_" or "."

Clarity of variable names (2 points) *

	0	1	2	
Variable names are unclear and meaningless (e,g, 'df', 'x', 'data2)'	◯	◯	◉	Variable names are helpful and unambiguous

Quality of code comments (2 points) *

	0	1	2	
There are almost no comments	◯	◯	◉	The comments explain clearly what is being done and why

Suggestion for improving readability of R code *

Overall, it looks good!

Did the student provide all code necessary for recompiling their results AND report (note: report not actually reproduced) (2 points) *

	0	1	2	
Incomplete code or no .Rnw/.Rmd file provided	◯	◯	◉	Everything was provided

Clarity of folder structure (2 points) *

	0	1	2	
Many excess files not relevant to report	◯	◉	◯	The purpose of each file is clear and there are no excess files in the lab2 folder

Comments on folder structure

It's okay to have a data folder that has your results but remember not to upload the lingBinary.Rdata in that folder

Correctly produce Ben-Hur type figures (3 points) *

	0	1	2	3	
Did not provide a figure like Ben-Hur	○	◉	○	○	Figures look correct

Discuss one (or more things) that you liked about the author's figure *

I like that you kept everything on the same scale, it makes sore easy comparison

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

Again, I am not quite sure what went wrong here, but if computed correctly the similarity for k = 3 should be the largest (even with the small subsamples). It is odd that your similarities keep getting larger for bigger k's

Also, I would choose wider bin's for your histogram

Justification of conclusions drawn from Ben-Hur figures (3 points) *

	0	1	2	3	
Did not write about any conclusions drawn from the figures	○	○	◉	○	Clearly outlines interpretation of the figures and drew reasonable conclusions (e.g. found k =3, or some other value, is the best and provides reasons why)

Comments on the conclusions and interpretations of the Ben-Hur type figures *

It is unclear whether you are saying k = 3 stick out in a good or bad way here? In your plots it seems like it is bad because the similarity values are all very low and there seem to be three distinct clusters of similarity scores potential implying the points have three different ways of being clustered by k means

Things the author did well *

Your discussion of the Ben Hur algorithm was good

Things the author could improve on *

Sorry I couldn't help with the SCF thing, but if you ever can't figure something out (like the C++ code) please come ask. I'll do my best to help you figure.

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