

Step 5 analysis evaluation

Group evaluated: \_\_\_\_\_

Your name: \_\_\_\_\_

***Please provide a thorough review based on the group's Github Repository from Step 5.***

How useful is the main *Readme.md* file in aiding your understanding of the group's analysis this semester?

Read me for every step is provided by group members but the main readme with detailed project description in proper markdown format is missing. Every step readme gives a detail of what they did, results and which errors they got.

Based on the rubric for the final GitHub for the class, what elements need the most improvement for the final product?

This group's data presentation at every step is very clear and understandable. A detailed readme with a detailed project description along with all steps in proper markdown format makes this project Github page more graspable.

How detailed are the scripts provided? Do the comments help you to understand what they did?

All the scripts from quality, alignment, post alignment processing and variant discovery are clear to a reader and comments are making every step in the script more approachable.

How useful are the graphics that have been included? Are they effective?

Histogram for quality Step 1, histogram of percentage mapped in Step 2, a histogram of the percent duplication in Step 3 are provided in the separate reports and graph files in group repository. But a final bar plot in Step 4 comparing coverage at EACH step across each sample is not available. So far the provided graphs/histograms are quite effective and readable.

Based on the Step 5 README page for this group, what are some analyses that the group did not do that you'd like to see added? Or perhaps some ways of visualizing their current results? Feel free to sketch them out below.

At step 4 variant discovery they encountered some errors and later on troubleshooted those errors and debugged the GATK variant calling script. But there is no readme/graphic results provided for step 5 in this project repository which indicate what they are planning to do and what their future goals are. On the basis of that I would suggest them some additional input for improvement.

On a scale of 1-10 with 5=average, 10=truly exceptional:

Rank the organization of the group's Github repository \_\_\_\_\_

Rank the group's overall analysis and results for Step 5 \_\_\_\_\_

***Thank you for your thoughtful comments and suggestions***