Homework day 1

Author: Lynn Sanford, 2021

1. Videos for day 1 (if not already done)
2. Videos for day 2
3. Vimtutor
   1. Lessons 1 and 2
   2. Advanced students should do lessons 3, 4, 5
4. Library QC challenge (see next page)

**Library QC Challenge**

In class, we talked about how to read FastQC reports in the context of determining if there are overarching problems with a sequencing library.

Here, your job is to look at some FastQC reports to determine if a library looks good or whether it has problems (and what those problems might be). For each library, briefly answer the following questions:

1. Does this library pass general QC?
2. If not:
   1. What QC metric(s) show problems with the library?
   2. What might be the biological or technological source of the problem(s)?

**Library 1**

A graph showing a number of data

Description automatically generated

A graph with a red line

Description automatically generated

A graph with numbers and a line

Description automatically generated

**Library 2**

A graph with different colored lines

Description automatically generated

A graph with a red line and blue line

Description automatically generated

A graph with text on it

Description automatically generated

**Library 3**

A graph with different colored lines

Description automatically generated

A graph showing a number of duplication levels

Description automatically generated

A graph with different colored text

Description automatically generated

**Library 4**

A graph with lines and numbers

Description automatically generated

A graph with a red line and blue line

Description automatically generated

A graph with numbers and a line

Description automatically generated

**Library 5**

A graph showing a graph of different colored lines

Description automatically generated

A graph with a line and numbers

Description automatically generated

A graph with a blue line

Description automatically generated