Reading. Read Chapter 4: “Properties of Regular Languages.” There are several pre-recorded lectures pertaining to this assignment. They can be found following the links on the grid of notes or on Canvas under “Panoto Recording.” One lecture gives detailed instructions how to prove that a language is not regular. It is to me followed strictly.

No new machanims this week. But two weight topics are introduced. One is algorithms. The other is the famous Pumping Lemma.

Assignment. Do some small number of the following exercises.

- Section 4.2: Problems 1–12.
- Section 4.3: Problems 1–9, 18

We are especially interested in clear exposition and proof technique. We most careful proofs using the Pumping Lemma.

Submission. Write up the solutions. You may use pen and paper, plain text, or \LaTeX. A single clear PDF document is prefered and that seems what most students are producing, so that is working out well. (Make sure scans of handwriting come out with enough contrast.) Submit it on Canvas by the end of the day Thu, 11 June 2020. (Actually anytime before 8am EST Friday is OK, but no later.)

Questions. If you have questions about how to do the problems attend one of the two Google Meets on Wed, 10 June 2020. You are welcome to send me e-mail: \texttt{ryan@fit.edu}.

Assessment. Last week there were too little demonstration of mastery. Ask questions on Wednesday (or my e-mail). Be prepared with answers on Friday.