

## Week 5: Average and SD

**Average and SD, Conceptually** Read ch. 4 of FPP (the textbook; see the syllabus) and do the assigned review exercises here.

Read ch. 5 of the notes, titled “Average and SD.” Do the exercises throughout. (Feel to skip any exercises you find duplicative from above.) This chapter reviews and extends slightly the ideas from ch. 4 of FPP. It also presents the ideas somewhat more technically.

**Importantly**, notice that the link to the notes has changed. Before this chapter, we were following directly along with a graduate class I’m teaching. Now the material has diverged slightly, so I created a separate set of notes for this class. The new notes url is: <https://pos3713ri.github.io/notes/>. ##### Average and SD, in R

Read ch. 6 of the notes, titled “Average and SD in R”. Do the exercises throughout.

I made two videos to help you through this section. You should watch both *after* reading section 6.4 of the notes. There’s no new content in the videos, but they present the material slightly differently. The first (**wk05a-\***) describes conceptually how the `group_by()/summarize()` workflow operates. The second (**wk05b-\***) provides some live coding of me using the workflow. You can find the videos in the Dropbox folder.

**Normal Approximation, Conceptually** Read ch. 5 of FPP and do the assigned review exercises here.

Read ch. 7 of the notes, titled “The Normal Model.” Do the exercises throughout. I suspect section 7.6 will be especially helpful. (Feel to skip any exercises you find duplicative from above.) This chapter reviews and extends slightly the ideas from ch. 5 of FPP. It also presents the ideas somewhat more technically. There are some especially helpful exercises using the NOMINATE data set.

**Finishing Up** Make sure you have completed the entire assignment. Then complete the HW questionnaire, quiz, and letter on Canvas. These are due by Friday at 11:59pm. Please remind yourself of the standards of academic honesty as you complete the graded assignments.