

Exercise 3C: More visualization and R Markdown

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The *Data Visualization Cheat Sheet* and *R Markdown Cheat Sheet* may be helpful.

This is a continuation of Exercise 3A and 3B. You should at this point have an R Markdown document that can compile into a report, which does (some of) the things from 3A and 3B.

Extensions

- Experiment with ggplot faceting for stratifying plots by categorical variables.
- You can, for instance, create line plots of the total sale against week stratified according to item for a (small) selection of items. Lines should connect observations for the same store.
- Add your running mean smoother.
- Experiment with interactive plots.

Some YAML features

- Check out `toc: TRUE`, `code_folding: hide` and `highlight: zenburn`. General customization of HTML output is possible using CSS.
- Try knitting to a word document instead.
- One advanced YAML feature is the possibility to parametrize the document and knit it with specific values of the parameter(s). Experiment with possible parameters, e.g. how many items should be included in a figure, or which method should be used for selecting the items.

Open exercise

The next exercise will be an open exercise, where you will work on building a dynamic version of your report via Shiny. Shiny gives the user the possibility to interactively explore the data, and you can start to think about what choices could be interesting to leave to the user.