Mixing writing and r

Background

Here is an example of a document that produces a plot from some data that's stored separately.

The data in Figure 1 shows the daily interactions with the moodle page for my second year lab classes. Can you spot the two dominant patterns in the data?

an actual computed figure

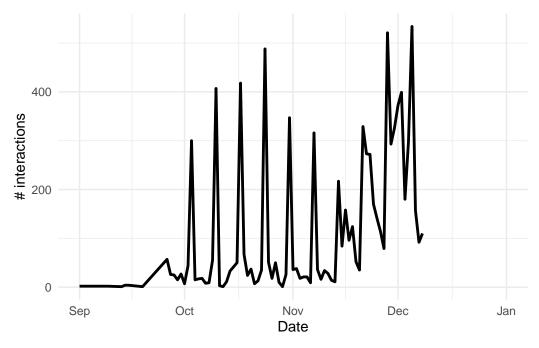


Figure 1: A line plot of some mystery data

or a table

A badly formatted table... rstats with various packages handles tabular data much more nicely!

head(df)

```
# A tibble: 6 x 2
  theTime day
                  n
  <date>
            <dbl>
1 2016-06-13
                  2
2 2016-07-21
                  2
3 2016-09-01
4 2016-09-09
                  2
5 2016-09-13
                  1
6 2016-09-14
                  4
```

or some further analysis

If you want to compute things for including **in your text**, so-called inline code, then you can make your code spit out markdown that's been patched up.

E.g. figure out the total # of interactions:

```
`r sum(df$n)`
```

Or in text: the total number of interactions were 8761, but mean and median were 108.16, and 36 respecively.

For code cells, if you turn #| echo: true to false, then the code is hidden!

We can also elaborate on previous plots, by adding additional analysis. Figure 2 shows the days, where n>100.

Notes

- dplyr
- Check out how conveniently the output format can be swapped out with quarto render 01-doc-with-julia.qmd --to pdf etc

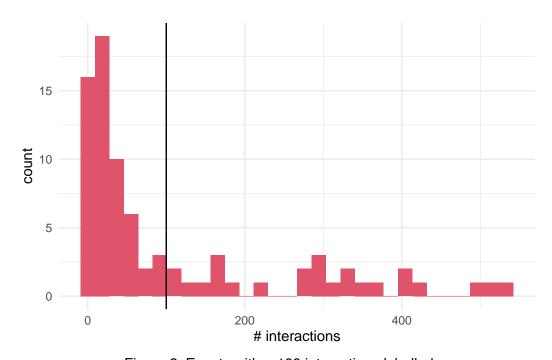


Figure 2: Events with > 100 interactions labelled