

Socio-Informatics 348

Practical 6

Submission Instructions

- Submit your completed practical as `studentnumber.qmd` on SocSciLearn.
- Submissions are checked for completeness, not correctness.
- At least 80% of exercises must be attempted to receive 1% towards AF assessment.
- Attendance of at least one practical session per week is required to earn the 1% for that week's practical.

Deadline

Friday 26 September, 17:00 (submit on SocSciLearn)

Chapters Covered:

- R4DS: Chapters 15, 16 and 17

Exercises

Section 1: babynames dataset from babynames package

1. Which baby name has the most vowels? (Hint: use a regular expression.)
2. Which baby name has the highest proportion of vowels? (Hint: what is the denominator?)

Section 2: words from stringr package

3. Given the corpus of common words in `stringr::words`, create separate regular expressions that find all words that:
 - Start with “y”.
 - Don't start with “y”.
 - End with “x”.
 - Are exactly three letters long (without using `str_length()`).
 - Contain a vowel-consonant pair.
 - Contain at least two vowel-consonant pairs in a row.
 - Only consist of repeated vowel-consonant pairs.

Section 3: Dates and Times with lubridate

4. What happens if you parse a string that contains invalid dates?

```
ymd(c("2010-10-10", "bananas"))
```

5. What does the `tz` argument to `today()` do? Why is it important?

6. For each of the following date-times, show how you'd parse it using:

(a) A `readr` column specification

(b) A `lubridate` function

```
d1 <- "January 1, 2010"
d2 <- "2015-Mar-07"
d3 <- "06-Jun-2017"
d4 <- c("August 19 (2015)", "July 1 (2015)")
d5 <- "12/30/14" # Dec 30, 2014
```