Practical 3

Jumping Rivers

Practical 3

S4 objects 1

- 1. Following the Cohort example in the notes, suppose we want to make a generic for the mean function.
- 2. Using the isGeneric function, determine if the mean function is an S4 generic. If not, use setGeneric to create an S4 generic.
- 3. Using setMethod, create a mean method for the Cohort class.²
- 4. Repeat the above steps for the sd function.
- 5. Create a summary method for the cohort class
- 6. Use isGeneric to determine if an S4 generic exists.
- 7. Use setGeneric to set the generic method (if necessary).
- 8. Create an S4 summary method.
- Create a hist method for the cohort class. When the hist function is called on a cohort, it should produce a single plot showing two histograms - one for height and another for weight.
- 10. Create a [method for the cohort class. This method should return a cohort object, but with the relevant rows sub setted.
- 11. Create a <- method for the cohort class. This method should allow us to replace values in the details data frame.

Solutions

Solutions are contained within the course package

```
library("jr00P")
vignette("solutions3", package = "jr00P")
```

¹ I've intentionally mirrored the functions from previous practical to highlight the differences.

² Be careful to match the arguments.