

```
( inherits(family, "foehnix.family") ) {  
  if ( verbose ) cat("foehnix.family object provided: use custom family object.\n")  
} else if ( inherits(family, "character") ) {  
  family <- match.arg(family, c("gaussian", "logistic"))  
  if ( ! all(is.infinite(c(left, right))) ) {  
    # Take censored version of "family" using the censoring  
    # thresholds left and right.  
    if ( ! truncated ) {  
      family <- get(sprintf("foehnix_c%s", family))(left = left, right = right)  
      # Else take the truncated version of the "family".  
    } else {  
      family <- get(sprintf("foehnix_t%s", family))(left = left, right = right)  
    }  
  }  
}
```



R programming

Syllabus

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Contents

First session:

- Data structures
- Flow control
- Functions

Second session: (tbc)

- Functions II
- for-loop replacements
- S3 objects
- Packaging

Assessment

Attendance

Yes.

Exam

- held at the beginning of the 2nd session.
- approx. 30 minutes (pen & paper).
- 8–12 multiple choice question on the topics discussed in the 1st session.

What is R?

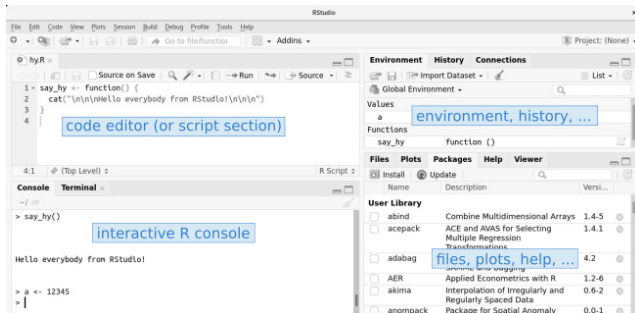
R is a free software environment for statistical computing and graphics.

- **Free:** R is released under GNU public license, which means that you are free
 - to run the software (for any purpose),
 - to study and change the software,
 - to redistribute copies, and
 - to distribute copies of your modified versions.
- **Statistics:** R is written from statisticians for statisticians, which is R's biggest advantage, but sometimes also a disadvantage.

Working with R

To work with R you need

- **R**, which is distributed via the comprehensive R archive network <https://cran.r-project.org/>.
- **RStudio** which is a private company, however the base IDE is freely available.



Further reading

- Stauffer: **Introduction to Programming with R**
<https://eeecon.uibk.ac.at/~discdown/rprogramming/>
- Peng: **R Programming for Data Science**
<https://bookdown.org/rdpeng/rprogdatascience/>
- Grolemund: **Hands-On Programming with R**
<http://shop.oreilly.com/product/0636920028574.do>
- Grolemund: **R for Data Science**
<https://r4ds.had.co.nz/>
- Wickham: **Advanced R**
<https://adv-r.hadley.nz/>