



R Development Extension for NetBeans

Master thesis for ...

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NetBeans is an integrated development environment (IDE), written in Java, and can run on every platform that supports a compatible Java Virtual Machine (JVM).

NetBeans is primarily used for developing Java, however, also other languages such as PHP, C/C++ and HTML 5 are supported.

The programming language R and its software environment are widely used among statisticians and data miners for software development and data analysis. R's popularity has increased substantially in recent years.

This project aims at adding R as a target programming language to NetBeans.

The scope of this thesis is as follows:

- Programmers can write and execute R code in NetBeans.
- Syntax highlighting for R code
- The NetBeans R extension interfaces an existing engine to
 - compile and run code
 - report errors

Optional goals are:

- The R extension supports auto-completion
- Programmers can debug R code in NetBeans

The work's progress should be discussed with the supervisor at least every 2 weeks. Please note the guidelines of the Institute for System Software when preparing the written thesis.

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