



December 16, 2002

*Sixth Assignment: Software Visualization (WS 02/03)*

**Exercise 1:** (16 points)

For the second project you have to implement a tree map in Java. Given the name of a directory your program should show the tree map of the directory such that the size of each box indicates the size of the file or directory and the color of each box the age of the file.

To make things easier you find on the web page of the lecture the source code of the class `DirectoryTree`. The method `getDirectoryTree()` of this class reads the name, size and age of a directory and all its subdirectories and files into a data structure. The source code also contains a class `LOCS` that maps numbers in the range of 0-255 to a color scale.

You can earn 4 extrapoints if you make your visualization more interactive. When the user moves the cursor on a box the name of the file or directory should automatically be drawn below the cursor (Hint: see class `MouseMotionListener`).

**Please, hand in your source code electronically by email ([goerg@cs.uni-sb.de](mailto:goerg@cs.uni-sb.de)) until the start of the lecture on Januar 15th.**

*We wish you a Merry Christmas and a Happy New Year.*