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Tutorial: Powerful Data Analysis and Composition with the UNIX Shell Andreas Schmidt, Steffen Scholz

## **Exercise** I

## Tasks:

- Download the book "The Adventures of Tom Sawyer" from <u>http://www.gutenberg.org/ebooks/74</u> (utf-8 format) and store it locally.
- 2. For cygwin users only: Convert file to Unix Format with command: dos2unix.exe <file>
- 3. Browse through the first pages of the book using less. Start less with the option that line numbers are displayed (for help type man less).
  - a. Go to line 1234 of the file. What is the fifth word?
  - b. Search for the first apperance of Alfred. In which line of the document is he mentined the first time? What is his last name?
  - c. Go to the end of the document
  - d. Scroll backward 5 pages
  - e. Show only lines containing the word "Tom"
  - f. Quit less
- 4. How many chapters has the book (hint use grep with -a option)?
- 5. Count the number of empty lines in the file
- 6. Execute grep Tom <file> and grep -o Tom <file>. What is the difference? Compare the number of returned lines unsing wc. Explain the difference.
- 7. How often does the names "Tom" and "Huck" appear in the book?