LaTeX and Git

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Once upon a time

- Donald E. Knuth (born 1938) is a computer scientist and Professor Emeritus of the Art of Computer Programming at Stanford University.
- In 1969 he wrote the book 'The Art Of Computer Programming'. He is the Godfather of a hugh amount of cumputer related stuff.
- The book was typeseted with metal letters; the good old style.
- In 1976 he wants to typeset the 2nd edition, but the typesetting changed to a digital way. His favorite font was not available and the digital print was awful.

Lamport TeX

- So he decided to make it by himself and he created TEX, with the goals
  - allow anybody to produce high-quality books using a reasonable amount of effort
  - provide a system that would give the exact same results on all computers, now and in the future
- based on TEXLeslie Lamport creates a dialect which includes popular Macros, so that it is easier to use than the original TeX.

basic

- Control-sequences are commands to format:
  `\command[optional parameter]{parameter}`
- e.g. the documentclass definition with 11pt font as book:
  `\documentclass[11pt]{book}`

basic

- To create a document we have to create a minimal header
- **Document-setting**
  will define the global environment of the document
  - `\documentclass[options]{<class>}`
- **Packages**
  are used to provide addition functionality within the document (syntax-highlighting, url-links, etc.)
  - `\usagepackage{<name>}`
- **Title**
  To have some variables defined which could be used within the layout at least this should be set
  - `\author{<name>}`
  - `\title{<title>}`
  - `\institute{<date>}`
  - `\date{<date>}`