

'Singular-Leitfaden' using the power of SINGULAR to generate online-textbooks

Installed on a web-server, the computer algebra system Singular can generate 'books on demand' which meet the reader's interest better than a classical textbook can do.

This is presented and explained for lectures on linear algebra, where texts and exercises with randomly chosen parameters are organized in their logical context. Facilities for the teacher include the possibility to easily generate sets of exercises and worksheets for examinations.

Requests via HTML-forms make things platform-independent. The diagram below indicates what is done:

