

The 'dbook' Freeware for Developing Interactive e-Textbooks from Your Printed Texts: The Case of the Historical Textbook by Schooten (1646)

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In this workshop, you will be able to experience the freeware 'dbook' developed by Masami Isoda, Univ. of Tsukuba. This freeware enables you to transform any of your printed textbooks which you are using in your classroom into digital-interactive materials. In addition, you neither need to buy any software for mathematics nor develop classroom materials because all users of the original printed textbooks can share the products of dbook as e-textbooks on the website are available for free.

In the workshop, you will experience how to use the e-textbook on the interactive board and how to integrate your traditional teaching into this innovative environment. 'dbook' enables you to use your printed textbook just like the chalk and blackboard in your classroom. In this workshop, the historical textbook by Schooten (1646) is used as an exemplar.

Note:

The 'dbook' authoring software was developed using Flash and works in an XML environment. The product of the 'dbook' can be used on any browser on PC, MAC or Unix. The 'dbook' is a software for developing digital-interactive textbooks for any computer.

The software 'dbook'

http://math-info.criced.tsukuba.ac.jp/software/dbook/dbook_eng/dbook_eng05.html

Sample e-textbooks produced by dbook

http://math-info.criced.tsukuba.ac.jp/museum/dbook_site/

The screenshot shows a Macromedia Flash Player 7 window displaying an interactive e-textbook page. The page features a title page for 'FRANCISCI SCHOOTEN LEIDENSIS DE ORGANICARUM CONICARUM SECTIONUM IN PLANO DESCRIPTIONE. CAPVT I. De rectis lineis, qua in plano ex motu implicato describuntur.' and a geometric diagram of a triangle ABC with a point D on the base line AD. The diagram is annotated with red and blue lines and circles. A toolbar with various interactive tools is visible on the left side of the page. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock showing 7:42.