

What is and how to use KeTCindy/KeTCindyJS

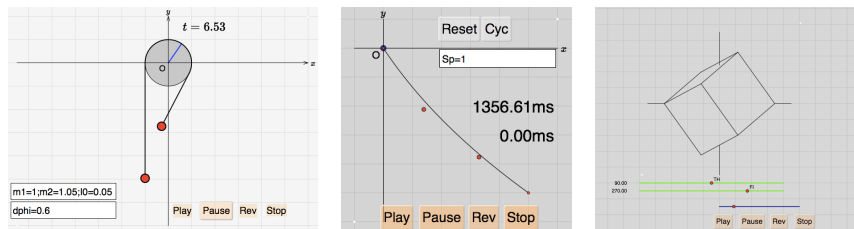
Setsuo Takato
Toho University, Japan

LaTeX is a great tool to produce high-quality educational materials containing finely-tuned mathematical expressions. However, it is not that easy for mathematics teachers to handle scientific artwork on their classroom materials. KeTCindy enables them to overcome this limitation and prepare high-quality mathematical figures in PDF format through intuitive, user-friendly operations. In short, KeTCindy is a computer collaborative system based on two major components: the dynamic geometry software Cinderella2, and LaTeX drawing tool KeTpic, the latter being a tool developed by ourselves. The latest version on Cinderella is downloadable from <https://beta.cinderella.de>.

Recently, we have developed KeTCindyJS, a powerful follow-up of KeTCindy. It is a collaborative system of KeTCindy itself and CindyJS developed by CindyJS.org <https://cindyjs.org>, to produce interactive materials in HTML format from KeTCindy. KeTCindyJS does not create LaTeX files, but HTML files, which are closely related to LaTeX files from KeTCindy. Lots of samples of KeTCindy and KeTCindyJS can be found at the URL:

Samples of KeTCindy

The followings are some of samples.



Both systems, KeTCindy and KeTCindyJS, are provided for free, so they can be freely used anytime and anywhere. The package KeTCindy, including KeTCindyJS, is fully downloadable from CTAN (Comprehensive TeX Archive Network). Go to CTAN and search for “ketcindy”, or proceed directly to : CTAN/ketcindy.

<https://www.ctan.org/pkg/ketcindy>

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This seminar will be organized as a hands-on workshop with brief introduction to KeTCindy and KeTCindyJS. KeTCindy needs LaTeX, R and Maxima to produce PDF files via LaTeX, so some samples will be only briefly demonstrated. The rest of the time will be assigned to experiences of KeTCindyJS. Those who are not necessarily frequent LaTeX users, but are interested in using better figures in their interactive materials, are highly welcomed.