

Active Learning Class Using PDF-Based Video Materials Generated Using KeTCindy

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Abstract

KeTCindy is equipped with the capability of generating PDF slides from an original text file. For creating PDF slides, LaTeX has the beamer package, but KeTCindy is superior for flip flops and animation insertion. Also, although LaTeX has the media 9 package for inserting audio or video into LaTeX output, KeTCindy enables teachers to generate PDF slides with audio or video from the original text file written in media 9 commands. Teachers can convert PDF slides generated using KeTCindy to a movie file by screen capture while it is playing. Teachers can then distribute the movie file for flip teaching to students via the internet, and can deliver lectures using the original PDF slides. Students using these educational resources are expected to benefit from enhanced active learning and deepened understanding.