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Open toolsets: new ends and new means in learning mathematics and science with computers.

Pehkonen, Erkki, 21. conference of the International Group for the Psychology of Mathematics Education (PME). ,. 47-62 (1997).

Open toolsets are a new genre of software that involves a greater number of smaller units than conventional educational "applications". The units are intended to be highly modifiable, extendable, and combinable with each other. Primarily with examples created in the computational medium, Boxer, I illustrate open toolsets. I suggest how they can be constructed and what learning properties they may have. In particular, I argue that open toolsets may allow v very different development communities, involving teachers in essential ways. Finally, I outline areas of research that need to be done to support the best development and use of open toolsets.

Classification: U50