

## C-CAT2: A Computer Software Used to Analyze Traditional and Simplified Chinese Characters, Character Components and Neighbors

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The aim of this work was to upgrade C-CAT (Character-Component Analysis Toolkit) which was designed to assist researchers in constructing experimental materials using Chinese characters (Lo & Hue, 2008). The new features built in the new version of the software (C-CAT2) include (1) an user interface which can display traditional and simplified Chinese and English, (2) a frequency norm of simplified Chinese characters used in the mainland China, and (3) a module which allows a user to incorporate any character frequency norm into the software. Moreover, a task of decomposing Chinese characters into constructing components was designed, and a group of college students were asked to perform the task. The way that the participants decomposed the stimulus characters was analyzed, and used to construct character decomposing rules in C-CAT2.

**Keywords:** *character components, character frequency, Chinese character orthography, simplified characters, traditional characters*