

## GCDkit goes platform independent!

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More than 15 years have passed since the *Geochemical Data Toolkit (GCDkit)* was released at the Goldschmidt Conference in Kurashiki [1]. This freeware, written in the potent R language [2; <http://www.r-project.org>] evolved into an established standard for plotting and recalculation of whole-rock geochemical data from magmatic rocks [3]. It can be downloaded for free from [www.gcdkit.org](http://www.gcdkit.org).

Apart from its original, Windows-based graphical user interface (GUI), *GCDkit* can be fully controlled from the command line or programmed from a batch file. Python-driven notebooks represent a versatile tool integrating text, programming code and its results into a single, well-formatted document. *Jupyter* (<http://jupyter.org>) has proved to be an especially useful tool for reproducible research and teaching.

Over the years, *GCDkit* became an ideal platform for petrogenetic modelling of igneous processes [4, 5]. It is also used to interpret the output of the powerful R-Crust software that serves for phase equilibria modelling of partial melting using the promising combination of *Perple\_X* and R [6].

Just unleashed *GCDkit* version 6 is the first with platform-independent (Tcl/Tk) GUI. Thus the program should run, *inter alia*, on Mac or Linux systems. Routines for recalculation of electron-microprobe mineral data, thermodynamic modelling in P–T grid (utilizing *Perple\_X* [7] output [5] or interfacing to the *Melts* web service [8, 9]), and rudimentary GIS facilities are actively being developed.

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