Fiji–A ImageJ Distribution for the Bioimaging Community

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Abstract

The ImageJ distribution Fiji ("Fiji Is Just ImageJ") was conceived to address the need of an easy-to-install image processing package for biologists, based on ImageJ. Always inspired by researchers' needs, Fiji bundles many ImageJ plugins and offers tutorials and documentation in the ever-growing Fiji Wiki. To facilitate the interaction between biologists and programming experts, Fiji has an update function that allows for a rapid turn-around time between development and usage of Fiji components.

Fiji not only caters for regular users but also for advanced ones, offering powerful scripting languages in addition to the ImageJ macro language. Expert programmers benefit from Fiji's Script Editor which allows to edit and run not only scripts but also Java plugins without the need to leave ImageJ. To avoid duplication of efforts and to provide better separation of concerns, Fiji collaborates closely with other projects such as Bio-Formats, ImageJ2 and ImgLib. The ever-growing number of website visits and downloads, as well as a growing number of contributions, suggests that Fiji addresses a need in the scientific community.

Biography

Johannes Schindelin is maintainer of Fiji (Fiji Is Just ImageJ, (http://fiji.sc/). While he worked as a professional software designer in industry, his formal training is in pure mathematics (Dipl.) and genetics (Dr.) obtained at the Julius-Maximilians-University of Wuerzburg, Germany. He was PostDoc at the school of psychology at the University of St Andrews, Fife, UK, and was visiting scientist and leader of the image processing facility at the Max-Planck Institute of Molecular Cell Biology and Genetics in Dresden, Germany. He is currently a senior programmer on the FIJI and ImageJ2 projects at the Laboratory for Optical and Computational Instrumentation at the University of Wisconsin-Madison, USA.