

CranioGUI: A User Interface for Craniofacial Analysis Tools

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- CranioGUI is a graphical user interface for using 3D craniofacial data analysis tools.
- It was developed to make the tools easily available to craniofacial researchers.
- It is available as a web interface that only requires Java and Java Web Start.
- CranioGUI was modeled after the Khoros/Cantata environment for image processing and visualization.
- It allows users to select from available software modules, place them in a workspace on the screen, connect them in various ways, and execute the resulting workflow.
- The system runs on a Linux server, but users can upload their own data, interact with the interface, and output results to their own computers.
- Our modules are organized into classes in a class hierarchy.
- General purpose modules are included for input, output, conversion, and visualization.
- Various different types of 3D analysis routines currently include nose landmark detection, curvature features, and azimuth-elevation angle histograms.

