BrainVISA is mainly known as a software containing application toolboxes (TI MRI, sulcal identification and morphometry, cortical surface analysis, diffusion imaging and tractography, fMRI, nuclear imaging, EEG and MEG, TMS, histology and autoradiography, etc.). But BrainVISA is also a multi-platform modular and customizable software development environment.

Writing an extension to BrainVISA can be as simple as writing a python script containing a few lines of code but it is also possible to build a complete customized application that can rely on software components already plugged in BrainVISA.

BrainVISA is a software platform that has been designed to be highly customizable. Modification can be done at all levels of BrainVISA infrastructure:

1. **IMAGE PROCESSING**: create image processing algorithms either by combining existing methods or by writing new ones.
2. **SCRIPTING**: automatize the execution of processes or pipelines according to specific needs or data organization.
3. **VISUALIZATION**: customize existing visualization tools or create new viewers.
4. **USER INTERFACE**: customize a few elements of an existing interface or design your own graphical user interface.

**AnaSimpleViewer**: An example of customized application

A full application in about 700 lines of code. A simpler application fits in less than 300 lines:

http://brainvisa.info/doc/pyanatomist-4.0/examples/anaevensimpleviewer.py

A viewer using Anatomist, displaying merged colored and textured meshes

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