SOFA is an Open Source framework primarily targeted at real-time simulation, with an emphasis on medical simulation.

SOFA works with numerous algorithms from a variety of research fields. Very different kinds of models can be combined to produce complex simulations that remain compatible with optimal computation times.

Possible fields of application: learning and planning medical procedures, biomechanics, and video games...

Language, standard, environment: C++, available for Windows, Unix and Mac OS X

Keywords: physical simulation, biomechanics, computer-assisted surgery, GPU

Licence: Open Source with certain proprietary modules

Academic partners: