

SOFA

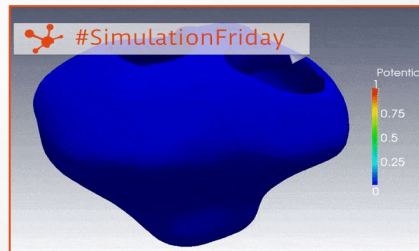
Simulation
Open
Framework
Architecture



An open-source solution for collaborations,
prototyping and innovation in simulation

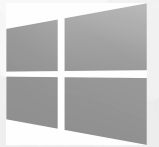
What is SOFA?

- Open-source framework for physics simulation for interactive and real-time applications, with emphasis on medical simulation
- Numerous models and algorithms available dedicated to solid mechanics
 - Medical simulation
 - Robotics and control
 - AR/VR
- Multi-physics (e.g. diffusion models)



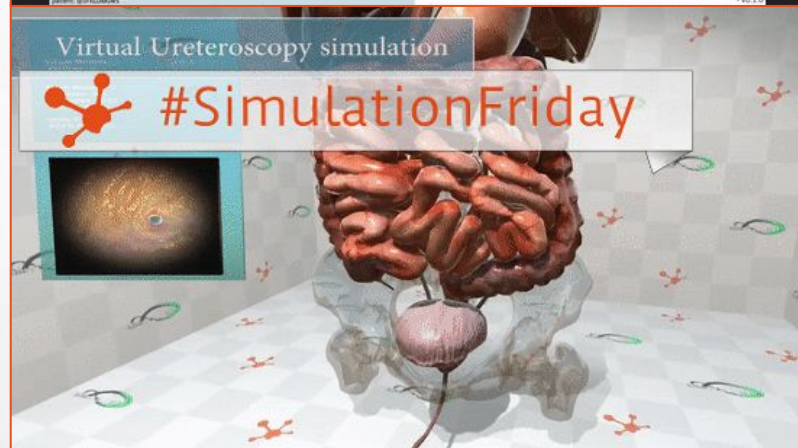
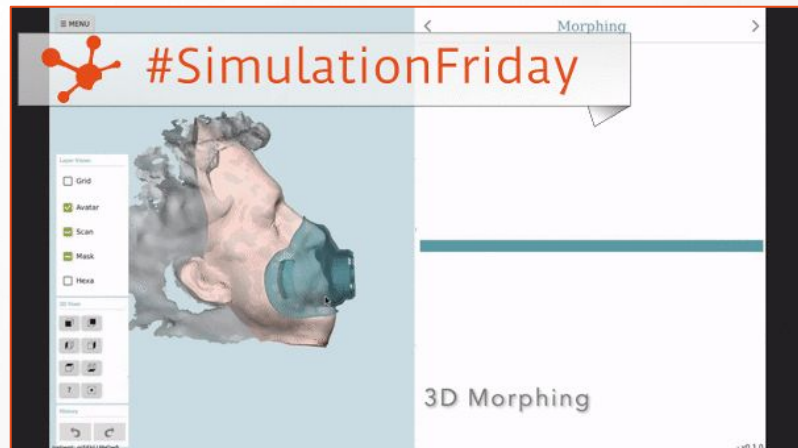
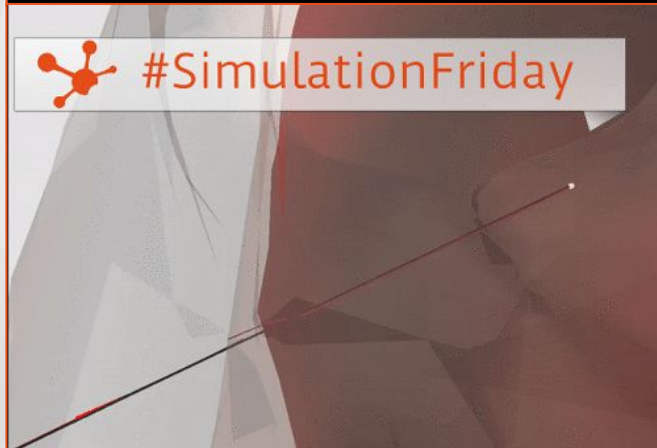
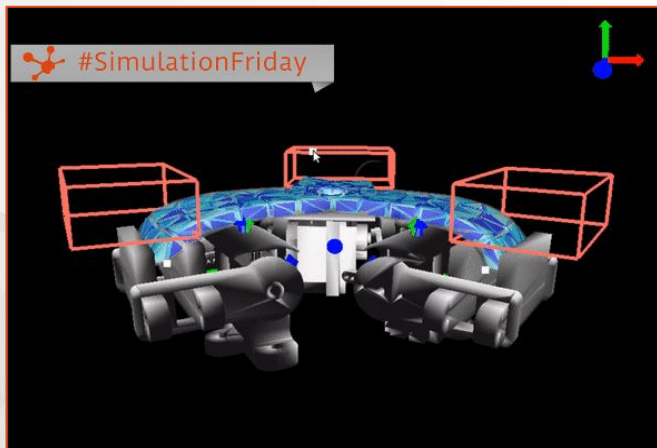
SOFA is open-source?

- C++ code under the LGPL v2.1, freely:
 - Download and use it
 - Modify it
 - Make products from SOFA!
- Stable core, managed and released by a dedicated development team
 - Contributions under peer-review
 - Roadmap jointly-built with partners
 - Free forum for technical support
- Scripting languages: *XML Python*
- Plugins: optional features with a free-to-define licence



What you achieve with SOFA

Inria



An international community / collaborate

- Arose from research and developed for more than 14 years
- Active community: +1000 worldwide users & +100 developers

○ Worldwide universities	80%
○ New international startups	10%
○ International companies	8%
○ Independent developers	2%



- Open-source fostering innovation: since 2006 7 spin-off creations

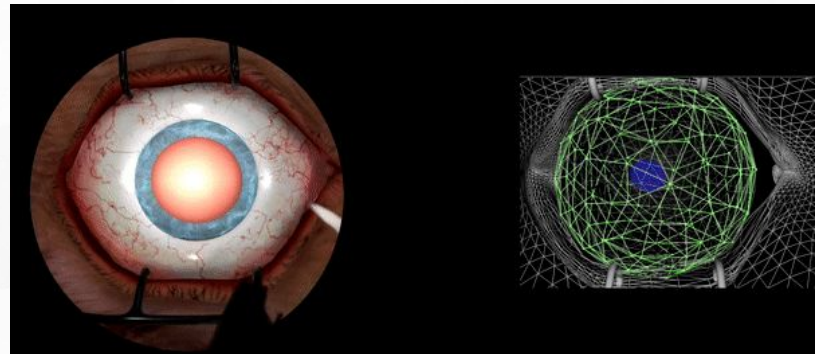
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Get involved

- Integrate SOFA in your own project
- Connect with the community
 - Research collaboration with other research teams
 - Collaboration with SOFA startups / companies
- Follow us and discover all SOFA related projects



*RESET project
(Inria/InSimo/NHC)*



Get in touch



- Never hesitate to get in touch with us
 - Shy? Additional question? Private chat?
 - Have access to the slides, infos, contacts
- Benefit from the open source network (projects, jobs, etc)
- Meet us online: November 24th, **Annual SOFA Symposium** (free)

Contact

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