

# **Finite element methods in scientific computing**

Wolfgang Bangerth, Colorado State University

# **Lecture 11:**

**Learning to use modern tools, part 2:**

**Visit – a visualization tool**

# Visit

## There are a million visualization programs:

- Visit, Paraview
- MayaVi
- HiVision
- Gmv
- Gnuplot
- OpenDX
- AVS Explorer
- ...

## However:

Almost all of them are small-scale, not well supported, no longer actively developed, etc. Don't get stuck with them!

# Visit and Paraview

**Today, there are essentially two large visualization programs:**

- Visit <http://www.llnl.gov/visit>
- Paraview <http://www.paraview.org/>

Both build on the *Visualization Toolkit (VTK)*.

## **Features:**

- Support practically every way to visualize solutions
- Easy user interfaces (in particular Visit)
- Can handle large data sets
- Work in parallel on dozens or hundreds of processors
- Well supported, will be around for a long time

# Visit

Let's go see how we can visualize the solution of step-3 with Visit...

# **Finite element methods in scientific computing**

Wolfgang Bangerth, Colorado State University