

MATH 676

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**Finite element methods in
scientific computing**

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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 really 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...

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