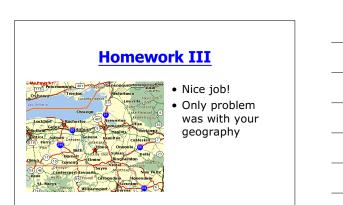




Outline

- Announcements:
 - Homework IV due Friday by 5, by e-mail
 Answers will be posted on web
 Only available after Tuesday by e-mail (slow response).
 - However, I will be available 8:30-1 on Monday and by appointment
 Homework III: answers on web
- Homework III & Awards
- Demo
- Controlling transparency and using it for science
- Where to go from here
- Course Evaluations



Awards

• Will be announced in class!

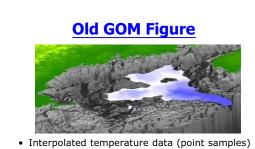
• Don't miss this!

Demo

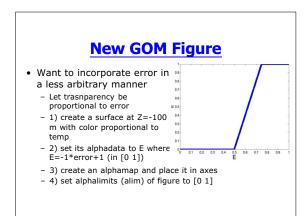
Gus Lott will demonstrate a GUI he developed for exploring proteins with in a fluid jet.

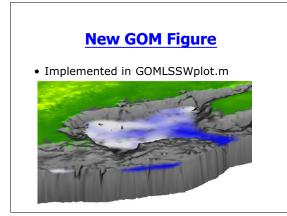
Making transparency useful

- Statistical interpolation techniques (like kriging) give you a distribution of values and an estimate of their accuracy (error variance)
- Most people will simply plot the interpolated data and ignore the error maps
- Ideally, we would incorporate error into the image so that it is easy to tell which values we believe



- Interpolated temperature data (point samples) on to trianglular mesh using kriging
- Set points with value < V and error > E to Nan
- Plotted as a patch with color proportional to T (had to append blue-white map to colormap)





Other Scientific Visualization Courses

- This is the only course to focus on scientific visualization, especially using Matlab.
- If you are interested in computer graphics: CS 417: Computer Graphics and Visualization (lear OpenGL, make \$\$\$)
- If you are interested in making effective visualizations:
 - try the Communications Department which offers courses on visual communication, human-computer interaction, and scientific writing

Other Scientific Computing Courses

• CIS Tools Curriculum

- Fall: MATLAB • 401: the basics

- 402: visualization
- Spring: General tools
 403: Developing scientific computer programs (compilers, debuggers, managing large projects)
 404: Numerical libraries
- 403 begins Feb. 18
- 404 begins March 25 (after spring break)

Evaluations

- Please give me as much data as you can - specific lecture/topics you liked & those you didn't - other topics to cover?
 - Tools Curriculum & mini-course format?
- Thanks!