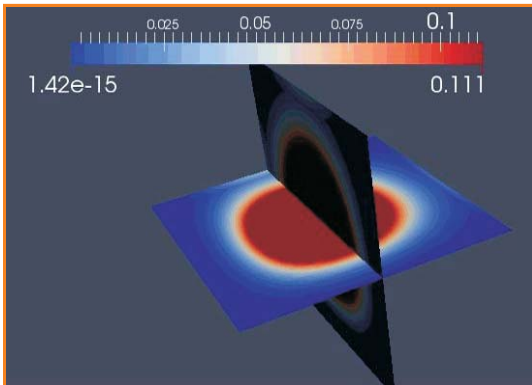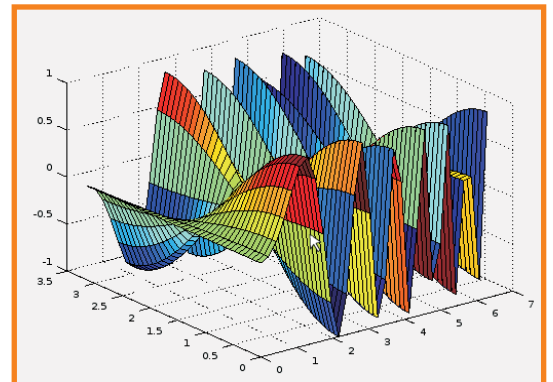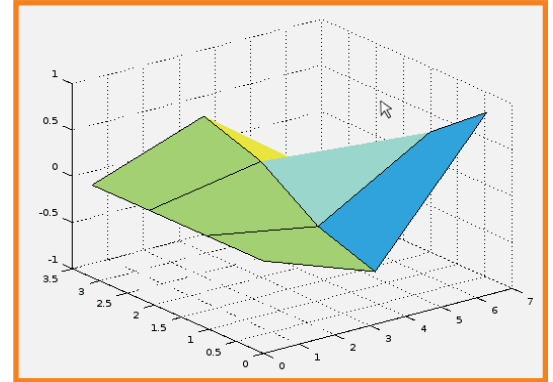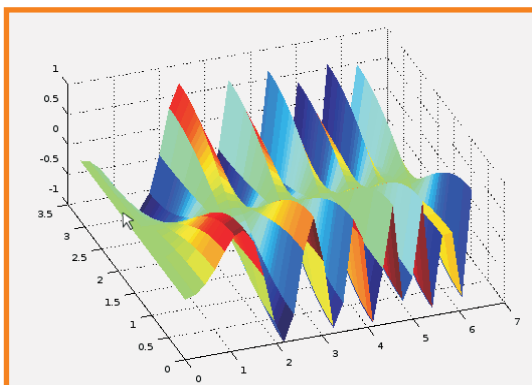# Pingalab

A Tool For Numerical Computations

Pingalab is vivid software that unleashes the power of numerical analysis by enriching it to a complete numerical computation environment flexible for all scientific calculation. This is a high-level interpreted language, primarily intended for numerical computations. It has comprehensive set of features such as Workspace, Resource Listing, Variable Window, Editor Console, Array editor, Worksheet editor, Debugging and 25 plus packages for Signal, Image, Communication and more. Packages are program modules which extend the Pingalab customized to particular algorithm or technology.

It provides capabilities for the numerical solution of linear and nonlinear problems, and for performing other numerical experiments. It also provides extensive graphics capabilities for data visualization and manipulation.

The Pingalab software includes the powerful as well as easy to use tool called package for various domains computing. It has extensive tools for solving common numerical linear algebra problems, finding the roots of nonlinear equations, integrating ordinary functions, manipulating polynomials, and integrating ordinary differential and differential-algebraic equations.

It is easily extensible and customizable via user-defined functions, or using dynamically loaded modules written in C++, C, Fortran, or other languages. Moreover the language is quite similar to .m file, so that most programs are easily portable.

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