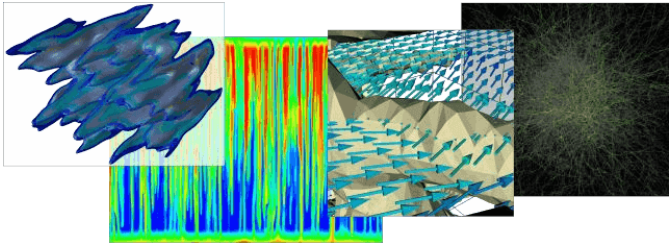
Introducción al método de elementos finitos

Parte I: `bash`, `g++`, `cmake`, `gnuplot`, `gmsh`, `paraview`



Practique los ejemplos en Gitpod

Open in Gitpod

Disponible en

¡Únete al grupo en Telegram!

Motivation

- Start with an introduction to the finite element method (FEM) for solving Poisson's equation with piecewise linear "P_1" finite elements.

Referencias

- Libros

  Oliver Sander. *DUNE — The Distributed and Unified Numerics Environment*. First. Lecture Notes in Computational Science and Engineering 140. Springer International Publishing, 2020. ISBN: 978-3-030-59701-6. DOI: 10.1007/978-3-319-03038-8.

- Artículos

  Peter Bastian et al. "The Dune framework: Basic concepts and recent developments". En: *Computers & Mathematics with Applications* 81.1 (1 de ene. de 2021). Development and Application of Open-source Software for Problems with Numerical PDEs, págs. 75-112. ISSN: 0898-1221. DOI: 10.1016/j.camwa.2020.06.007. URL: https://www.sciencedirect.com/science/article/pii/S089812212030256X.

- Sitios web

  Santiago Torres Arias, Jesús Castro y Andrea Gómez. *Taller de contribución a Arch Linux – Cumbre de Contribuidores de Open Source Software (CCOSS)*. 22 de oct. de 2020. URL: https://sg.com.mx/buzz/ponencias/ccoss-2020/taller-de-contribucion-arch-linux (visitado 10-03-2021).

  The Open Group. *The Evolution of the Unix Time-sharing System*. 15 de ago. de 2021. URL: https://unix.org/what_is_unix/history_timeline.html (visitado 30-05-2021).