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document is to give a very brief overview and direction in the writing of finite element code using Matlab. It is assumed that the reader has a basic familiarity with the theory of the finite element method,

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## **List of finite element software packages - Wikipedia**

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structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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## **Finite element method - Wikipedia**

I am trying to develop a library for finite element methods in C++ and for that I am looking at the data structures for meshes. Based on what I've read up on fenics and deal.ii, the general understanding seems to be that a basic mesh class should have the following

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members: Cells, Faces, vertices.

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