

$$-\Delta u = f \text{ is } \int \nabla u \cdot \nabla v \, dx = \int f v \, dx \text{ is}$$
$$\text{dot}(\text{grad}(u), \text{grad}(v)) \, dx == f * v \, dx$$

The FEniCS Project is a collaborative project for the development of innovative concepts and tools for automated scientific computing, with a particular focus on automated solution of differential equations by finite element methods.



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