

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

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.



FENICS  
PROJECT

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