

```
1 for triangle  $K$  in grid.triangles:
2     for DoF  $\phi_i$  in  $K$ .dofs:
3          $b_h[\phi_i.\text{globalIndex}] += f \left| \det \left( \nabla T_K^{-1}(x) \right) \right| \int_K \phi_i \, dx$ 
4     for DoF  $\phi_j$  in  $K$ .dofs:
5          $A_h[\phi_i.\text{globalIndex}, \phi_j.\text{globalIndex}] += \int_K$ 
```