

C++ code 9.9.34: Implementation of the constructor of **StrangSplit** → [GitLab](#)

```
2  template <typename DIFF_COEFF>
3  StrangSplit::StrangSplit(
4      const std::shared_ptr<If::uscalfe::UniformScalarFESpace<double>> fe_space,
5      double T, unsigned m, double lambda, DIFF_COEFF &&c)
6      : fe_space_(fe_space),
7        T_(T),
8        m_(m),
9        lambda_(lambda),
10       xi_(1.0 - 0.5 * sqrt(2.0)) {
11  const If::assemble::DofHandler &dofh{fe_space_ -> LocGlobMap()};
12  std::pair<Eigen::SparseMatrix<double>, Eigen::SparseMatrix<double>>
13      galerkinpair = assembleGalerkinMatrices(dofh, c);
14  A_ = galerkinpair.first;
15  M_ = galerkinpair.second;
16  // Butcher Tableau Coefficient for SDIRK-2
17
18 }
```