

# What to expect of a 30 y.o. Scotch

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## Abstract

Scotch is a black-box library for partitioning graphs and reordering sparse matrices, commonly used by MUMPS. Last year, version v7.0 of Scotch brought new features that allow users to parametrize at runtime the number of threads assigned to their partitioning, re-use pre-existing caller threads and to select the behaviour (deterministic or not) of the algorithms. This deep modification of the internals of Scotch lays the ground for subsequent scientific and engineering improvements, some of which are already scheduled.

As Scotch reached its 30th year of development, and in order to continue the scientific and engineering improvements, we will form a Scotch consortium in the coming year to give community input to the roadmap and increase the robustness of the Scotch ecosystem. We will present the current state of the development of Scotch, and some planned works.