

## Re: convergence of QR-algorithm

**Source:** <http://sci.tech-archive.net/Archive/sci.math.num-analysis/2005-03/0256.html>

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Hi,

you say you need "usually less than 10 iterations" per eigenvalue. For general real matrices with the Francis shift you need on average 1.5 of these double-steps and with alternative single shifts in case of convergence to real eigenvalues you can speed it up some more etc etc. But your goal is more simplicity of the program and robustness and not absolute efficiency.

Hans Mittelmann