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## A tutorial on multigrid optimization

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**ABSTRACT:** Multigrid methods were originally developed to solve elliptic PDEs and at present are known to be among the most powerful numerical methods for improving computational efficiency of a wide class of equations. Multigrid algorithms take advantage of the fact that different frequencies are present in the error of the solution of the finest grid problem. The objective of this talk is to introduce you into the world of multigrid optimization and show how this technique can be applied to solve efficiently different optimization problems and in particular to optical flow estimation.