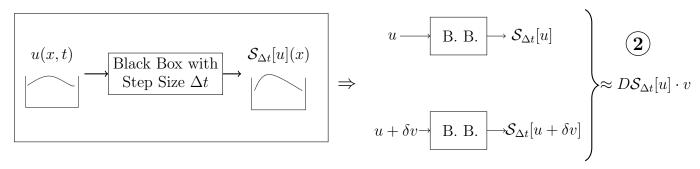
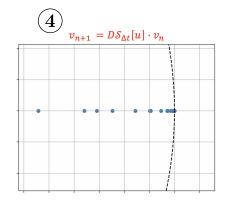
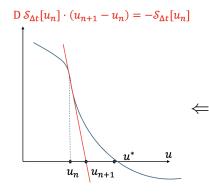


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1 Black Box Time Stepper Operator







Finite Differences Approximation to the Jacobian $DS_{\Delta t}$

 \Downarrow

Matrix-Free Linear Algebra: Newton-Krylov, Arnoldi, . . .