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imation quality and improve it adaptively despite their practical success adaptive processes have been shown to converge and to exhibit optimal complexity only recently and for linear elliptic pde this survey presents an up to date discussion of adaptive finite element methods

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instrumental for adaptive finite element methods on solving pdes a possible matlab code is given below 1 functionx equidistribution m x 2 h diff x 3 f 0 cumsum h m 4 f f f end 5 y 0 1 length x 1 1 6 x interp1 f x y examples of adaptive grids for two functions with singularity are plotted below u x 1 2 grid x

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adaptive finite element methods fems have been widely used in applications for over 20 years now in practice they converge starting from coarse grids although no mathematical theory has been able to prove this assertion

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we present an easily accessible object oriented code written exclusively in matlab for adaptive finite element simulations in 2d it features various refinement routines for triangular meshes as well as fully vectorized fem ansatz spaces of arbitrary polynomial order and allows for problems with very general coefficients

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