

the advantages of careful seeding. proceedings of the eighteenth annual acm-siam symposium on discrete algorithms. society for industrial and applied mathematics philadelphia pa usa. pp. 1027-1035. abstract the k-means method is a widely used clustering technique that seeks to minimize the average squared distance between points in the same cluster. although it offers no accuracy guarantees its simplicity and speed are very appealing in practice. by augmenting k-means with a simple randomized seeding technique we obtain an algorithm that is $O(\log k)$ -competitive with the optimal clustering. experiments show our augmentation improves both the speed and the accuracy of k-means often quite dramatically}}

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