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We develop a new, geometric approach to delocalization for random matrices. This approach yields that a random matrix with independent entries is completely delocalized. Suppose the entries of an $n \times n$ matrix G have zero means, variances uniformly bounded below, and a uniform tail decay of exponential type. Then with high probability all unit eigenvectors of G have all coordinates of magnitude $O(n^{-1/2})$, modulo logarithmic corrections. (Received September 16, 2013)