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An artinian graded algebra is said to have the Weak Lefschetz property if multiplication by a general linear form has maximal rank in every degree. At first glance this might seem to be a simple problem of linear algebra, but instead it has proven to be extremely elusive, even in the case of very natural families of algebras. In this talk we present some results and challenging problems. We also discuss some of the many connections to seemingly unrelated problems. (Received July 02, 2014)