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Current algebras are Lie algebras of regular maps from an affine variety to a finite-dimensional simple Lie algebra. We will discuss the classification of simple weight modules (with finite dimensional weight spaces) for current algebras. In particular, any such module is parabolically induced from a simple admissible evaluation representation for a Levi subalgebra. Conversely, all modules obtained in this way have finite weight multiplicities. (Received September 18, 2016)