In the talk I introduce an object $Spv X$ which represents the birational equivalence class of an algebraic variety $X$ and which admits a morphism to $X$. I define $Spv (X)$ as a certain functor which mimics $\text{Hom} (\text{Spec} (*), X) : (\text{Ring}) \longrightarrow (\text{Set})$. I also define its completion $Spv ^\wedge (X)$, using linear systems, and show that it is the categorical limit of proper models birational to $X$. In the course it arises a group functor $SG_n$ which is a uniform analog of $GL_n$ and which reflects a composition algorithm of blow-ups. $SG_n(k)$ naturally acts on a certain classifying space of uniformizing parameters $S_n(k)$. I show that the transitivity of such action is a uniform analog of Cutkosky’s factorization theorem. Using $SG_n$, I also formulate a statement on constructibility of power series and show that it recovers the desingularization of an algebraic variety locally along a valuation. (Received August 09, 2004)