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This work is joint with Uri Andrews. This talk combines elements of computable model theory and neostability theory. I discuss VC-minimality, a model-theoretic notion of complexity for theories. Unlike other similar notions (e.g., dp-minimality, stability, NIP), it is difficult to determine whether or not a given theory is VC-minimal. In terms of computability, the usual definition of VC-minimality is  $\Sigma_1^1$ . However, my coauthor and I show that there is a local characterization of VC-minimality (for countable languages). As a corollary, VC-minimality is actually  $\Pi_4^0$ -complete. This leads to a list of examples of theories whose VC-minimality is determined. (Received September 16, 2015)