Abstract. For \( p \) a prime, a \( p \)-typical cover of a connected scheme on which \( p = 0 \) is a finite étale cover whose monodromy group (i.e., the Galois group of its normal closure) is a \( p \)-group. The geometry of such covers exhibits some unexpectedly pleasant behaviors; building on work of Katz, we demonstrate some of these. These include a criterion for when a morphism induces an isomorphism of the \( p \)-typical quotients of the étale fundamental groups, and a decomposition theorem for \( p \)-typical covers of polynomial rings over an algebraically closed field.