Let $p$ be a prime number with $\mathbb{Z}_p$ the ring of $p$-adic integers. As is universally known, every $p$-adic number $s$ may be written as $s = \sum_{i=0}^{\infty} c_i p^i$ where $0 \leq c_i < p$ for all $i$. By simply permuting these digits $\{c_i\}$ in a consistent fashion for all $s \in \mathbb{Z}_p$ we obtain a group of homeomorphisms of $\mathbb{Z}_p$ which we call $S_{\mathbb{Z}(p)}$. This group is easily seen to have the cardinality of the continuum. In this talk we will explain the evidence that $S_{(p)}$ acts as symmetries of characteristic $p$ valued $L$-series arising in theory of Drinfeld modules, $t$-modules, and various generalizations. The evidence comes from special values at both the positive and negative integers of these functions. (Received September 15, 2009)