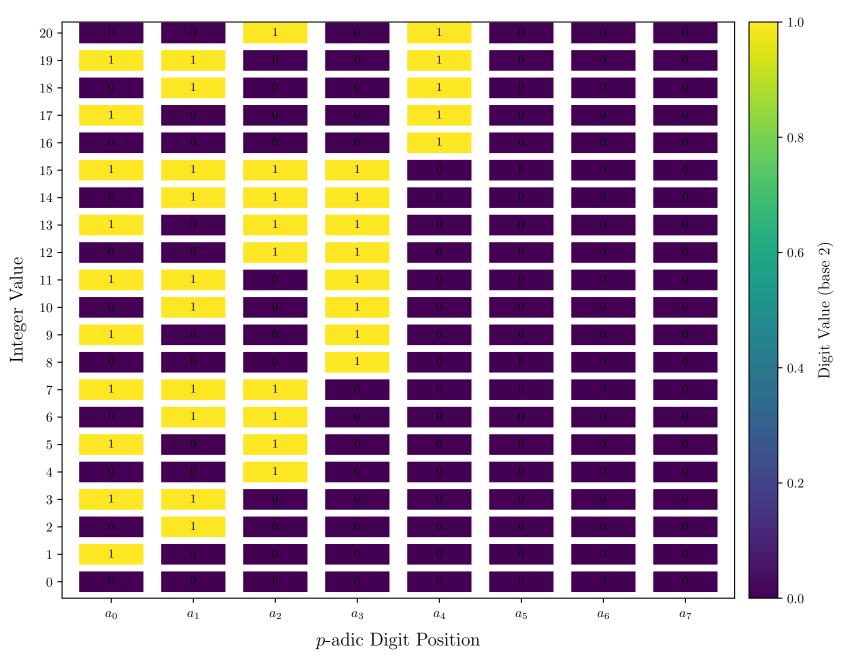Figure: Binary 2-adic digit patterns for integers 0 to 20.
Each row represents an integer, and columns show the 2-adic digits a_i where $\mathrm{val}_p(x) = \sum_{i=0}^{\infty} a_i p^i$.