



Why

We want to associate objects with series of the natural numbers zero and one.¹

Definition

A *digital datum* is any finite sequence in the set $\{0, 1\}$. If the sequence has length one, we refer to it as a *bit*. Using this terminology, it is natural to call the elements of a digital datum *bits*.

If the sequence has length eight, we refer to it as a *byte*. Using this terminology, a *kilobyte* is $2^{10} = 1024$ bytes.

¹This explanation requires one more step, which future editions will discuss.

