## Unit as Coordinate System

$$\begin{array}{c}
\mathbf{x} & \mathbf{cm} \\
\mathbf{cm}(\mathbf{x}) = \mathbf{x} & \mathbf{cm} \\
\mathbf{a} & \mathbf{length} \\
\mathbf{t} & \mathbf{s} \\
\mathbf{s}(\mathbf{t}) = \mathbf{t} & \mathbf{s} \\
\mathbf{a} & \mathbf{time} \\
\end{array}$$