Associating HOL Types with Sets

- Each type operator op is associated with a constant $|op|$. For example:
  - $|num|$ is a constant of type V
  - $|list|$ is a constant of type $V{\rightarrow}V$
  - $|\times|$ is a constant of type $V{\rightarrow}(V{\rightarrow}V)$
- Types are translated to ST recursively:

$$
\begin{array}{lcl}
[\![op_0]\!] & = & |op_0| \\
[\![\alpha]\!] & = & \alpha \text{ (variable of type } V) \\
[\![(\sigma_1, \ldots, \sigma_n)op_n]\!] & = & |op_n|\ [\![\sigma_1]\!]\ \cdots\ [\![\sigma_n]\!]
\end{array}
$$