HOL2ST

- Transferring theorems from HOL to ST
- HOL2ST applied to $\vdash$ `m + 0 = m` yields

  $\texttt{m} \in |\mathit{num}| \vdash$
  $((|\texttt{=}|\ |\texttt{num}|)\diamond((|\texttt{+}|\diamond\texttt{m})\diamond|\texttt{0}|))\diamond\texttt{m} = |\mathsf{T}|$

- HOL2ST applied to $\vdash \exists\texttt{x}{:}\alpha.\ \mathsf{T}$ yields

  $\mathsf{Inhab}\ \alpha \vdash$
  $(|\exists|\ \alpha)\diamond(\texttt{Fn x} \in \alpha.\ |\mathsf{T}|) = |\mathsf{T}|$

  where Inhab `X` ("`X` is inhabited") defined by:

  $\vdash \forall\texttt{X}.\ \mathsf{Inhab}\ \texttt{X} = \exists\texttt{x}.\ \texttt{x} \in \texttt{X}$

- ST2HOL is 'inverse' to HOL2ST