Overview of HOL-ST

- Adds a type V and constant $\in$ to HOL
  - $\in : V \to V \to \mathit{bool}$
  - members of V are sets
  - properties specified by ZF-like axioms
- Three experiments:
  1. use V by itself
     - Agerholm's construction of D_∞
     - set theoretic construction of lists
  2. add transfer principles for theorems
     - polymorphic lists
     - slick (?) treatment of group theory
  3. add transfer principles for theories
     - even slicker (??) group theory