Transferring HOL to ST

- With HOL2ST can relate ST_Group to |Group|

```
⊢ ST_Group G • ∼ ı =
     • ∈ (G → (G → G)) ∧
     ∼ ∈ (G → G) ∧
     ı ∈ G ∧
     ((((|Group| G) ⋄ •) ⋄ ∼) ⋄ ı = |T|)
```

- From this and HOL2ST

```
⊢ Group • ı ∼ ⇒ (∼x • x = ı)
```

yields

```
⊢ ST_Group G • ∼ ı
     ⇒ ∀x ∈ G. ∼x • x = ı
```

and

```
⊢ Group • ı ∼ ⇒ (ı • x = x)
```

yields

```
⊢ ST_Group G • ∼ ı
     ⇒ ∀x ∈ G. ı • x = x
```

- Best of both worlds
  - HOL proofs of ST specs