

Dependent Type Theory

1

- Intermediate TH1 data structure
- See paper [DTT TO HOL](#)

High Order Logic

2

- Replace Boolean terms ($\$o$) as new type
- Still keep Booleans for predicates

Boolean-free HOL

3

- Replace lambda expressions with new instantiated functions/skolems
- Might be incomplete (infinite number of skolems necessary)

λ -free HOL

4

- Prevent functions to be placed for instance in variables
- Replace “@” by application function

FOL

5

- *Monomorphizier*: Translate polymorphic expressions to monomorphic
- *Monomorphic type encoder*: See TACAS 2013/LMCS 2016

Monomorphic FOL