

Dependent Types and Theorem Proving: Differences between programming and proving

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- 1 The Big Lie: only some programs are proofs
- 2 Universes revisited
- 3 Why infinite loops are evil
- 4 Termination checking and well-foundedness
- 5 Positivity checking
- 6 Why throwing exceptions is evil
- 7 Purity and referential transparency
- 8 Effects in F^*
- 9 Exercises

