

# A 2-categorical representation of deduction

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We show how to decode (some) 2-categorical constructions into syntactic data, and how that proves to be fruitful in soundly representing deductive systems such as dependent type theory. We capture this intuition into what we call "judgemental theories", and break down progressively a formal treatment of context, judgement, and deduction. Its syntactic nature allows us to attempt a first general definition of type constructor. This is part of a joint work with Ivan Di Liberti.