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Type theory as an all-encompassing formalism has become more and more a standard benchmark for what formalisation of logico-mathematical content really means, and the more so because it also includes the essence of what a formal proof is. Thus, type theory is a valuable expedient to transform 'correctness' into a mechanisable issue, which is of great importance, in particular in mathematical proof development and correct computer programming.

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The book `Type Theory and Formal Proof -- An Introduction' has appeared in November 2014 with Cambridge University Press. The authors are Rob Nederpelt and Herman Geuvers.

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A description of the book can be found in the Preface, which is a copy of the corresponding pages in the book. See also the Foreword by Henk Barendregt.

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Proof theory - Wikipedia

The language and proof concepts used by working mathematicians just didn't seem to match up with what is actually formal. One such example of the mismatch between practical proofs and formal proofs is our use of definitions and "named" theorems.

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Type theory - Wikipedia

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Type Theory and Formal Proof eBook by Rob Nederpelt

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