Homotopy Type Theory Ebook Univalent Foundations Project

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Homotopy Type Theory Ebook Univalent

The HoTT Book. Homotopy Type Theory: Univalent Foundations of Mathematics. The Univalent Foundations Program. Institute for Advanced Study. Buy a hardcover copy for $22.05. [620 pages, 6″ × 9″ size, hardcover] Buy a paperback copy for $9.73.

The HoTT Book | Homotopy Type Theory

The type theoretic univalence axiom relates propositional equality on the universe with homotopy equivalence of small types. The program is currently being implemented with the help of the automated proof assistant Coq. The Univalent Foundations program is closely tied to homotopy type theory and is being pursued in parallel by many of the same ...

Homotopy Type Theory

Homotopy type theory offers a new "univalent" foundation of mathematics, in which a central role is played by Voevodsky's univalence axiom and higher inductive types.

unglue.it — Homotopy Type Theory: Univalent Foundations of ...

Homotopy type theory Homotopy type theory (HoTT) interprets type theory from a homotopical perspective. In homotopy type theory, we regard the types as "spaces" (as studied in homotopy theory) or higher groupoids, and the logical constructions (such as the product A × B) as homotopy-invariant constructions on these spaces.

Homotopy Type Theory. Univalent Foundations of Mathematics

Homotopy type theory is a new branch of mathematics that combines aspects of several different fields in a surprising way. It is based on a recently discovered connection between homotopy theory and type theory. It touches on topics as seemingly distant as the homotopy groups of spheres, the algorithms for type checking, and the definition of weak ∞-groupoids.

Homotopy Type Theory : Univalent ... - Google Books

Homotopy type theory : univalent foundations of mathematics. [Institute for Advanced Study (Princeton, N.J.); Univalent Foundations Program.;] -- This book is the product of a yearlong collaboration at the Institute for Advanced Study. It describes (the beta version of) a new language for mathematics, which may some day replace set theory.

Homotopy type theory : univalent foundations of ...

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The HoTT Book | Homotopy Type Theory

README.md. This is a textbook on informal homotopy type theory. It is part of the Univalent foundations of mathematics project that took place at the Institute for Advanced Study in 2012/13.

GitHub - HoTT/book: A textbook on informal homotopy type ...

Homotopy type theory. There is a large overlap between the work referred to as homotopy type theory, and as the univalent foundations project. Although neither is precisely delineated, and the terms are sometimes used interchangeably, the choice of usage also sometimes corresponds to differences in viewpoint and emphasis.

Homotopy type theory - Wikipedia

It is based on a recently discovered connection between homotopy theory and type theory. It touches on topics as seemingly distant as the homotopy groups of spheres, the algorithms for type checking, and the definition of weak ∞-groupoids. Homotopy type theory brings new ideas into the very foundation of mathematics.

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