

Topos Theory

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Topos Theory

Topos theory is, in some sense, a generalization of classical point-set topology. One should therefore expect to

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see old and new instances of pathological behavior. For instance, there is an example due to Pierre Deligne of a nontrivial topos that has no points (see below for the definition of points of a topos).

Topos - Wikipedia

Topos theory has long looked like a

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possible 'master theory' in this area. Summary. The topos concept arose in algebraic geometry, as a consequence of combining the concept of sheaf and closure under categorical operations. It plays a certain definite role in cohomology theories. A 'killer application' is étale cohomology.

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History of topos theory - Wikipedia

After a brief overview, the approach begins with elementary toposes and advances to internal category theory, topologies and sheaves, geometric morphisms, and logical aspects of topos theory. Additional topics include natural number objects, theorems of Deligne and Barr, cohomology, and set theory.

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Topos Theory (Dover Books on Mathematics): Johnstone, P.T ...

In a series of papers Isham 1996, Isham 1995, Isham and Linden 1994, Isham 1994, using Topos theory Isham describes a logical framework in which the probabilities of the theory are interpreted in a context in which every

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consistent set of histories is taken into consideration.

Topoi for Physics Why Topos

Another definition: A topos is a category \mathcal{C} such that any sheaf for the canonical topology on \mathcal{C} is representable. For the objects of a topos (which are sheaves of sets) the usual

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constructions of the category of sets can be defined. For this reason topoi may serve as non-standard models of set theory.

Topos - Encyclopedia of Mathematics

1060 NOTICESOFTHEAMS VOLUME51,
NUMBER9 Basic Examples In the early

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1960s Grothendieck chose the Greek word topos(which means “place”) to denote a mathematical object that would provide a general framework for his theory of étale cohomology and other variants related to his philosophy of descent.

WHAT IS a Topos? - American

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Mathematical Society

Topos theory has led to unexpected connections between classical and constructive mathematics. This text explores Lawvere and Tierney's concept of topos theory, a development in category theory that unites important but seemingly diverse notions from algebraic geometry, set theory, and

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intuitionistic logic.

Toposes and Local Set Theories: An Introduction

In the topos approach to quantum theory, the spectral presheaf plays the role of the state space of a quantum system. We show how a notion of entropy can be defined within the topos

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formalism using the equivalence between states and measures on the spec-

A TOPOS THEORETIC NOTION OF ENTROPY

and in the elementary topos theory or axiomatic sheaf theory of Lawvere and Tierney ; more precisely, in the study of

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geometric logic and the internal language of a topos.

Homotopy Theory and Topoi

But April 21 1958 was the birth of topos theory. The term topos came later. (Lots of people are not named on the day they are born.) As of the summer of 1973 Grothendieck's stated preferred

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definition of topos was still: a category with arbitrary colimits, finite limits, and a small generating set. He says over and over this is not quite adequate for proofs.

Grothendieck topos in nLab

example, in any Grothendieck topos.
This observation allows us to construct a

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theory of torsors in a variety of nonstandard contexts, such as the étale topology of algebraic varieties (see [2]). Describing the cohomology of X in terms of the sheaf theory of X has still another advantage, which comes into play even when the space X is assumed

Annals of Mathematics Studies

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Number 170

Noun. 1. topos - a traditional theme or motif or literary convention; "James Joyce uses the topos of the Wandering Jew in his Ulysses". theme, motif - a unifying idea that is a recurrent element in literary or artistic work; "it was the usual 'boy gets girl' theme".

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Topos - definition of topos by The Free Dictionary

The view that toposes originated as generalized set theory is a figment of set theoretically educated common sense. This false history obstructs understanding of category theory and especially of categorical foundations for mathematics. Problems in geometry,

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topology, and related algebra led to categories and toposes.

[PDF] The Uses and Abuses of the History of Topos Theory ...

In Higher Topos Theory, Jacob Lurie presents the foundations of this theory, using the language of weak Kan complexes introduced by Boardman and

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Vogt, and shows how existing theorems in algebraic topology can be reformulated and generalized in the theory's new language. The result is a powerful theory with applications in many areas of mathematics.

**Higher Topos Theory (AM-170)
(Annals of Mathematics ...**

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After a brief overview, the approach begins with elementary toposes and advances to internal category theory, topologies and sheaves, geometric morphisms, and logical aspects of topos theory....

**Topos Theory - P.T. Johnstone -
Google Books**

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Topos theory is the part of category theory that studies categories which are toposes. This includes in particular Grothendieck toposes, i.e. categories of sheaves. There are always two ways to think of topos theory: as being

sheaf and topos theory in nLab

My understanding is that, in a topos E : In

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the semantics using a valuation function assigning atoms to arrows in $\text{HomSet}(1, \Omega)$ (§ § 6.7), a statement p is valid in E when all such valuations result in $V(p) = \text{true}$. A statement is valid in E iff it is valid in $\text{Sub}(1)$ (using some valuation on the subobject algebra).

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