

“Myth is a pure ideographic system, where the forms are still motivated by the concept which they represent while not yet, by a long way, covering the sum of its possibilities for representation.” —Roland Barthes, “Mythologies”

The Trivial Notions Seminar Proudly Announces

Brown representability

A talk by
Samuel Isaacson

Abstract

Suppose F is a homotopy functor $\mathbf{K}^{\text{op}} \rightarrow \mathbf{Ab}$, where \mathbf{K} is the category of finite pointed CW complexes. Roughly, if F takes wedges to products and respects cofiber sequences, then it is representable: there is a CW complex Y_F so that $F(X) = [X, Y_F]$ for all spaces X . I’ll talk about this theorem, some generalizations, and how the assignment $Y \mapsto Y_F$ can fail to be functorial.

Friday, February 8th, 2008 at 2:37 pm
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