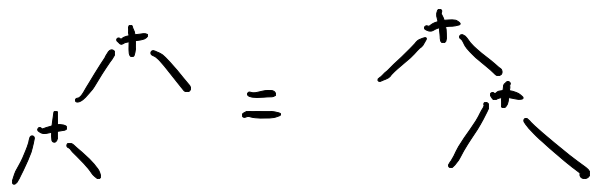


In time Domie got even more bold
and began using non-free algebras
like his new pals Schulman & Licata

If the free algebra
has relations, say

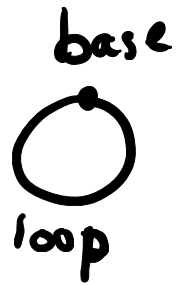

$$\begin{array}{c} \text{+} \\ \swarrow \quad \searrow \\ \text{+} \quad \text{+} \\ \swarrow \searrow \swarrow \searrow \end{array} = \begin{array}{c} \text{+} \\ \swarrow \quad \searrow \\ \text{+} \quad \text{+} \\ \swarrow \searrow \swarrow \searrow \end{array}$$

then we call it

"higher induction"

because it not only
affects our path,
it changes our $=$.

Soon the land of induction was filled
with life and invention



$S^1 := \text{base}$
| loop : base = base



$S^2 := \text{base}$
| surface : refl_{base} = refl_{base} in base = base type

And finally it made sense why homology
measures so little about a sphere.
There simply wasn't that much information
in a sphere to begin with.