Lecture 20: from algebraic spaces to algebraic stacks Thursday, October 23, 2014 11:04 AM

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Algebraic Stacks]
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Reulli Given a groupoid in schemes/g X, = Xo
can form an associated stack [Xo/Xi] (our the
hity Stable site).
Def? If X, ± Xo Spoid in Algebraics -/ set smooth
then can form [Xo/Xi] = stackhing him is representible
thind at in groupoids {Xo/Xi}

$$Xo/Xi (1) = stack = trip Xo(1)$$

 $An alge stack is a stack equive to one as above.
Def A morphism f: X - Y of stacks our Et(S)
is called requerentible if the esch/s and give - Y
the thir product
 $Xo/Yi = Stack = spoil (1)$$