An (Abridged) Intro to Sheaves IDEA Structure on Smooth Spaced is given by Confunctions into IR "bet" Fix a set T. A sheaf on X = Top is given by associating each open UEX to some Fun(XT) Satisfying nothing analytic polynomial continuous polynomial regular bounded 25-3min (XETOP, Ox & Shu(x))

Q. What maps pleasure structure? (X. Ox) -> (M. Oy) is X to 4 as + Structure relating shealer. This is a set of fons $O_q(V) \longrightarrow O_x(f^{-1}(V))$ $\forall V \subseteq M$ open (satisfying --) Prop. A smooth map RM-TRM is exactly a morphism"

(Rn. Coo) -> (Rm, Coo), W/ the structure given by Precomp. - 3min Def. A smooth manifold is a - if the