Det A groupoid is a par d'acts 
$$C_1$$
,  $C_0$  u/mage  
 $C_1 \xrightarrow{s} C_0$  and compositur law  
 $\pm [(f,g) \in C_1 \times C_1 | s(f) = t(g)]^3$   
such that:  
1.  $s(fg) = s(g) + t(fg) = t(f)$   
2.  $t(t(f))f = f + t_2(s(f)) = f$   
3.  $(fg)h = f(gh)$  when dified  
4. frail  $f \in C_1 \exists f' \in C_1 \ s.t. \ s(f) = t(f'') + t(f) = s(f'') < d.$   
 $ff'' = t(t(f)) \quad f'f = t(s(f))$   
Def Sempropoid = above, drop 4  $e_1' = t(g(f))$   
Def Maymonial also drop 2, 2,3,4  
Def Maymonial drop 4  
 $C_1 = t(fg) = t(g) + t(f) = t(f)$