$$\overline{II} = \underbrace{Ex}{3} \left( \begin{array}{c} 6 & acting on its subgroups by conjugation \right) \\ \overline{S} = \underbrace{EH} : H \underbrace{EG}{3} & -the & st & d & all subgroups & f \\ h: 6 & k. \\ S \longrightarrow S \\ (1) & ext = ette^{-1} = H \\ (2) & gx(hxtt) = gx(hth^{-1}) = g(hth^{-1}) \\ = g(h) \\ H(gh)^{-1} = g(h) \\ H(gh$$

An alternative view of group actions is given by  
the Permutation Representations associated to them  

$$\begin{array}{c} (\mu:G\times S\longrightarrow S) & & (\Psi:G\longrightarrow Sym(S)) \\ group action & (\mu:G\times S) \\ group action & (group activity group \\ group active & (group activity group \\ group active & (group activity group \\ group active & (group activity group activity group \\ group active & (group activity group activity group active active (group active group \\ group active & (group activity group activity group active active group \\ group active & (group active active group active group \\ group active & (group active active group active active group active active group \\ group active & (group active active group active active group active active group active active group active ac$$