This talk is about a family of inequalities that generalise the inequalities of H"older, of Young and of Loomis and Whitney. They were first described in the context of $\mathbb{R}^n$, and are generalised here to locally compact abelian groups. These inequalities depend on two items of data: a collection of homomorphisms of groups and a collection of indices $p$. I explain the inequalities and offer some remarks about the best constants and their dependence on the data.