



**Definition**

Given a family of topological spaces  $\mathcal{F} = \{(X_\alpha, \mathcal{T}_\alpha)\}_{\alpha \in I}$ , the *box topology* of  $\mathcal{F}$  is the topology on  $X = \prod_{\alpha \in I} X_\alpha$  generated by the set

$$\left\{ \prod_{\alpha \in I} U_\alpha \mid U_\alpha \in \mathcal{T}_\alpha \right\}$$



