

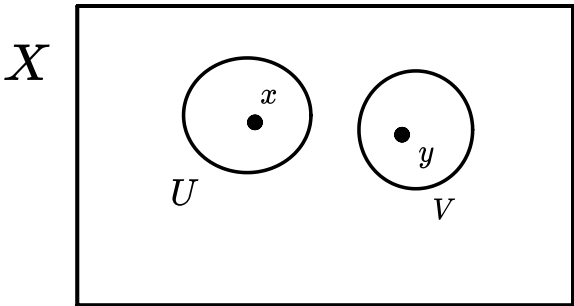
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T_2 topological space or Hausdorff space

Definition. T_2 topological space or Hausdorff space

A [topological space](#) $(X, \mathfrak{T})$ is said to be T_2 **or Hausdorff** if we can "house off" every pair of points using disjoint open sets

$$\forall x, y \in X \exists U, V \in \mathfrak{T} \\ \text{st } x \in U, y \in V \\ \text{and } U \cap V = \emptyset$$



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