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## connected component

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Owner djao (24) Last modified by djao (24)

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Author djao (24) Entry type Definition Classification msc 54D05 Two points x, y in a topological space X are said to be in the same connected component if there exists a subspace of X containing x and y which is connected. This relation is an equivalence relation, and the equivalence classes of X under this relation are called the connected components of X.