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In mathematics, an open cover of a topological space is a family of open subsets such that is the union of all of the open sets. A good cover is an open cover in which all sets and all intersections of finitely-many sets are contractible (Petersen 2006).. The concept was introduced by André Weil in 1952 for differentiable manifolds, demanding the ... to be differentiably contractible.

Good cover (algebraic topology) - Wikipedia

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