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Abstract These notes provide a brief introduction to topological groups with a special emphasis on Pontryagin- van Kampen's duality theorem for locally compact abelian groups. We give a completely self-

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contained elementary proof of the theorem following the line from.

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A topological group  $G$  is a group which is also a topological space such that the multiplication map  $(g;h) \mapsto gh$  from  $G \times G$  to  $G$ , and the inverse map  $g \mapsto g^{-1}$  from  $G$  to  $G$ , are both continuous. Similarly, we can define topological rings and topological fields. Example 1. Any group given the discrete topology, or the indiscrete topology, is a topological group.

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This stimulating introduction employs the language of point set topology to define and discuss topological groups. The text examines set-theoretic topology and its applications in function spaces, as well as homotopy and the fundamental group.

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A topological group acts on itself by certain canonical self-homeomorphisms: inversion, left (or right) translation by a fixed element, and conjugation by a fixed element. Translation by elements gives a topological group a homogeneous structure, i.e. we can move from a point  $h$  in the group to any other point  $k$  by the homeomorphism  $g \mapsto kh^{-1}g$ .

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Topological groups Definition 1.1. A topological space

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$X$  is called homogeneous if for  $(x,y) \in X \times X$  there is a homeomorphism  $f: X \rightarrow X$  such that  $f(x) = y$ . Recall that a group  $G$  is said to act on a set  $X$  if there is a function  $(g,x) \mapsto g \cdot x: G \times X \rightarrow X$  such that  $1 \cdot x = x$  for all  $x$  and  $g \cdot (h \cdot x) = (gh) \cdot x$  for all  $g,h \in G$  and  $x \in X$ .

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Further, unlike in general topological spaces, the metrization criterion in topological groups is quite simple: A topological group is metrizable if and only if it is first countable (the...

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Let's start with the area of maths that's used in Topological Data Analysis: algebraic topology. The overall concept we are aiming to get a basic grasp of is that of the 'Homology groups of a space'. The Group Theory. The first object we need to get to know is the group.



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