

## 1 Homotopy

In this course, the word “map” will always mean “continuous function”.

In topology, we study spaces up to “continuous deformation”. Famously, a coffee mug can be continuously deformed into a doughnut, and thus they are considered to be topologically the same. Now we also talk about maps between topological spaces. So a natural question is if it makes sense to talk about the continuous deformations of maps. It turns out it does, and the definition is sort-of the obvious one:

**Definition (Homotopy).** Let  $X, Y$  be topological spaces. A *homotopy* between  $f_0, f_1 : X \rightarrow Y$  is a map  $F : [0, 1] \times X \rightarrow Y$  such that  $F(0, x) = f_0(x)$  and  $F(1, x) = f_1(x)$ . If such an  $F$  exists, we say  $f_0$  is *homotopic* to  $f_1$ , and write  $f_0 \simeq f_1$ .

This  $\simeq$  defines an equivalence relation on the set of maps from  $X$  to  $Y$ .

Just as concepts in topology are invariant under homeomorphisms, it turns out the theories we develop in algebraic topology are invariant under homotopies, i.e. homotopic maps “do the same thing”. This will be made more precise later.

Under this premise, if we view homotopic functions as “the same”, then we have to enlarge our notion of isomorphism to take this into account. To do so, we just write down the usual definition of isomorphism, but with equality replaced with homotopy.

**Definition (Homotopy equivalence).** A map  $f : X \rightarrow Y$  is a *homotopy equivalence* if there is some  $g : Y \rightarrow X$  such that  $f \circ g \simeq \text{id}_Y$  and  $g \circ f \simeq \text{id}_X$ . We call  $g$  a *homotopy inverse* to  $f$ .

As always, homotopy equivalence is an equivalence relation. This relies on the following straightforward property of homotopy:

**Proposition.** If  $f_0 \simeq f_1 : X \rightarrow Y$  and  $g_0 \simeq g_1 : Y \rightarrow Z$ , then  $g_0 \circ f_0 \simeq g_1 \circ f_1 : X \rightarrow Z$ .

$$\begin{array}{ccccc} X & \xrightarrow{f_0} & Y & \xrightarrow{g_0} & Z \\ & \searrow f_1 & & \searrow g_1 & \\ & & Y & \xrightarrow{g_1} & Z \end{array}$$

**Example (Stupid example).** If  $f : X \rightarrow Y$  is a homeomorphism, then it is a homotopy equivalence — we take the actual inverse for the homotopy inverse, since equal functions are homotopic.

**Example (Interesting example).** Let  $i : \{0\} \rightarrow \mathbb{R}^n$  be the inclusion map. To show this is a homotopy equivalence, we have to find a homotopy inverse. Fortunately, there is only one map  $\mathbb{R}^n \rightarrow \{0\}$ , namely the constant function 0. We call this  $r : \mathbb{R}^n \rightarrow \{0\}$ . The composition  $r \circ i : \{0\} \rightarrow \{0\}$  is exactly the identity. So this is good.

In the other direction, the map  $i \circ r : \mathbb{R}^n \rightarrow \mathbb{R}^n$  sends everything to 0. We need to produce a homotopy to the identity. We let  $F : [0, 1] \times \mathbb{R}^n \rightarrow \mathbb{R}^n$  be

$$F(t, \mathbf{v}) = t\mathbf{v}.$$

We have  $F(0, \mathbf{v}) = 0$  and  $F(1, \mathbf{v}) = \mathbf{v}$ . So this is indeed a homotopy from  $i \circ r$  to  $\text{id}_{\mathbb{R}^n}$ .

# Manual Solution In Algebraic Topology

**Christian Drosten**



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