

All references are to the 2002 printed edition.

CHAPTER 0

**Ex. 0.2.** Define  $H: (\mathbf{R}^n - \{0\}) \times I \rightarrow \mathbf{R}^n - \{0\}$  by

$$H(x, t) = (1 - t)x + \frac{t}{\|x\|}x.$$

$x \in \mathbf{R}^n - \{0\}$ ,  $t \in I$ . It is easily verified that  $H$  is a homotopy between the identity map and a retraction onto  $S^{n-1}$ , i.e. a deformation retraction.

**Ex. 0.3.** First a few results which make things easier.

**Lemma 1.** Let  $f_0, f_1$  and  $f_2$  be maps  $X \rightarrow Y$ . If  $f_0 \simeq f_1$  and  $f_1 \simeq f_2$  then  $f_0 \simeq f_2$ .

*Proof.* Let  $F_0: X \times I \rightarrow Y$  be a homotopy between  $f_0$  and  $f_1$ , and  $F_1: X \times I \rightarrow Y$  a homotopy between  $f_1$  and  $f_2$ .

Define  $F: X \times I \rightarrow Y$  by

$$F(x, t) = \begin{cases} F_0(x, 2t), & t \in [0, 1/2] \\ F_1(x, 2t - 1), & t \in [1/2, 1]. \end{cases}$$

If  $t = 1/2$  then  $F_0(x, 2t) = F_0(x, 1) = f_1(x) = F_1(x, 0) = F_1(x, 2t - 1)$ , i.e. the map  $F$  is well-defined. By the pasting lemma,  $F$  is continuous. Since  $F(x, 0) = F_0(x, 0) = f_0(x)$  and  $F(x, 1) = F_1(x, 1) = f_2(x)$ ,  $F$  is a homotopy between  $f_0$  and  $f_2$ .  $\square$

**Lemma 2.** If  $f_0, f_1: X \rightarrow Y$  are homotopic and  $g_0, g_1: Y \rightarrow Z$  are homotopic then  $g_0 f_0, g_1 f_1: X \rightarrow Z$  are homotopic.

*Proof.* Let  $F: X \times I \rightarrow Y$  be a homotopy between  $f_0$  and  $f_1$ , and let  $G: Y \times I \rightarrow Z$  be a homotopy between  $g_0$  and  $g_1$ .

One proof: Now the composite  $g_0 F: X \times I \rightarrow Z$  is a homotopy between  $g_0 f_0$  and  $g_0 f_1$ , and the composite  $G(f_1 \times \text{id}_I): X \times I \rightarrow Z$  is a homotopy between  $g_0 f_1$  and  $g_1 f_1$ . By lemma 1,  $g_0 f_0 \simeq g_1 f_1$ .

Another proof: The map  $G(F \times \text{id}_I)(\text{id}_X \times \Delta): X \times I \rightarrow Z$  is continuous, where  $\Delta: I \rightarrow I \times I$  is the diagonal map, that is,  $\Delta(t) = (t, t)$ . Since

$$G(F \times \text{id}_I)(\text{id}_X \times \Delta)(x, 0) = G(F \times \text{id}_I)(x, 0, 0) = G(F(x, 0), 0) = g_0 f_0(x)$$

and

$$G(F \times \text{id}_I)(\text{id}_X \times \Delta)(x, 1) = G(F \times \text{id}_I)(x, 1, 1) = G(F(x, 1), 1) = g_1 f_1(x),$$

$g_0 f_0$  and  $g_1 f_1$  are homotopic.  $\square$

(a). Suppose  $f_0: X \rightarrow Y$  is a homotopy equivalence with homotopy inverse  $f_1: Y \rightarrow X$ , and  $g_0: Y \rightarrow Z$  is a homotopy equivalence with homotopy inverse  $g_1: Z \rightarrow Y$ .

Using lemma 2,  $f_1 g_1 g_0 f_0 \simeq f_1 \text{id}_Y f_0 = f_1 f_0 \simeq \text{id}_X$  and  $g_0 f_0 f_1 g_1 \simeq g_0 \text{id}_Y g_1 = g_0 g_1 \simeq \text{id}_Z$ . In other words,  $g_0 f_0: X \rightarrow Z$  is a homotopy equivalence.

Since being homotopy equivalent clearly is reflexive and symmetric, homotopy equivalence among spaces is an equivalence relation.

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