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## homotopy lifting property

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Defines	homotopy lifting property

A map  $f : X \rightarrow Y$  satisfies the homotopy lifting property if given any space  $A$  and a map  $g : A \rightarrow X$  and a homotopy  $h$  of  $f \circ g$ , we have a homotopy  $h'$  of  $g$ , satisfying  $f \circ h' = h$ .