

Corrections to *Basic Category Theory*

Tom Leinster

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This is a list of all the mistakes in *Basic Category Theory* of which I am aware. I'd be grateful to hear of any other mistakes you find or suspect, however tiny: Tom.Leinster@ed.ac.uk. Thanks to those who found the ones below.

Page 71, 'Natural numbers' paragraph, second-to-last sentence Replace ' $x(0) = 0$ ' by ' $x(0) = a$ '.

Page 96, first commutative diagram The bottom-right vertex should be $X(B')$, not $X(A)$.

Page 101, line 4 Replace the isomorphism ' $X(V) \cong \mathbf{Set}(F(S), V)$ ' by ' $X(V) \cong \mathbf{Vect}(F(S), V)$ '.

Page 113, fourth display The codomain should be $\prod_{\lambda \in \Lambda} Y_\lambda$, not $\prod_{\lambda \in \Lambda} X_\lambda$.

Page 147, isomorphism (6.9) On the right-hand side, replace $\lim_{\leftarrow \mathbf{I}}$ by $\lim_{\leftarrow \mathbf{I}^{\text{op}}}$.

Page 154, statement of Theorem 6.2.17 The last expression should be $X \cong \lim_{\rightarrow \mathbf{E}(X)} (H_\bullet \circ P)$, not $X \cong \lim_{\rightarrow \mathbf{I}} (H_\bullet \circ P)$.

Page 166, proof of Theorem 6.3.20 In each of lines (6.24), (6.25) and (6.26), replace $\lim_{\leftarrow \mathbf{E}(X)}$ by $\lim_{\leftarrow \mathbf{E}(X)^{\text{op}}}$.

Page 168, exercise 6.3.24 Replace 'Verifying the hypotheses requires some cardinal arithmetic' by 'Verifying the hypotheses can be done with some cardinal arithmetic'.