

**A Banach space  $X$  such that all its closed subspaces are complemented.**

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Any Hilbert space.

Note that Lindenstrauss and Tzafriri, showed that each Banach space for which every closed subspace is complemented is isomorphic to a Hilbert space (cf. [J. Lindenstrauss and L. Tzafriri, On complemented subspaces problem. Israel J. Math., 2, 1984, 375-378].)