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An example of a $C^{1,1}$ function, which is not a d.c. function

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Abstract: Let $X = \ell_p$, $p \in (2, +\infty)$. We construct a function $f : X \rightarrow \mathbb{R}$ which has Lipschitz Fréchet derivative on X but is not a d.c. function.

Keywords: Lipschitz Fréchet derivative, d.c. functions

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