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Cauchy Completion of Categories

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Cauchy completing a category is the construction of adding all absolute colimits to a given category, where absolute colimits are those colimits which are preserved by any and all functors. This being a very restrictive definition, absolute colimits form a comparatively small class of colimits which are realised by quite canonical and natural constructions. Which constructions correspond to absolute colimits varies by what extra structures a category has, namely its enrichment. In this talk, I will briefly go over the definition absolute colimits and give interesting examples of absolute colimits in different settings, including in the setting of 2-categories.

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