



### Why

We want to discuss preferring certain elements of a set before others.<sup>1</sup>

### Definition

A *preference* on a set  $A$  is a partial order on  $A$ .<sup>2</sup> A *total preference* is a preference (order) which is total.

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<sup>1</sup>Future editions will modify.

<sup>2</sup>Future editions will extend.



