A theory of pictures for quasi posets

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The theory of pictures between tableaux developed by Zelevinsky is known to encode much of the combinatorics of symmetric group representations and related topics such as preorder diagrams and tableaux, as well as the Littlewood-Richardson rule. It was extended later to double posets (with Reutenauer) and developed by the point of view of combinatorial Hopf algebras. However objects such as tableaux with repeated entries do not fit in this framework: they should be thought of as double quasi posets: we develop from these ideas a theory of pictures for quasi posets, allowing to obtain new results of surjections.

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