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We define and study convexity structures that are induced by any multifunction defined on all non-empty finite subsets of a given space. It turns out that any set theoretic convexity structure (in van de Vel's sense) is representable in this form. Our approach encompasses as diverse structures as transitive sets and transitive closures (playing a very important role in set theory and model theory) and convex sets in a vector space. (Received September 19, 2014)