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Sign symmetry vs symmetry: Young's characterization of the Shapley value revisited

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- We reconsider Young's (IJGT, 1985) characterization of the Shapley value.
- It invokes efficiency, symmetry, and marginality or strong monotonicity.
- Symmetry can be relaxed into sign symmetry.
- Symmetry: equally productive players obtain the same payoff.
- Sign symmetry: equally productive players' payoffs have the same sign.

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