Rationality and bounded rationality

CS598HS

What's so great about Nash Equilibria?

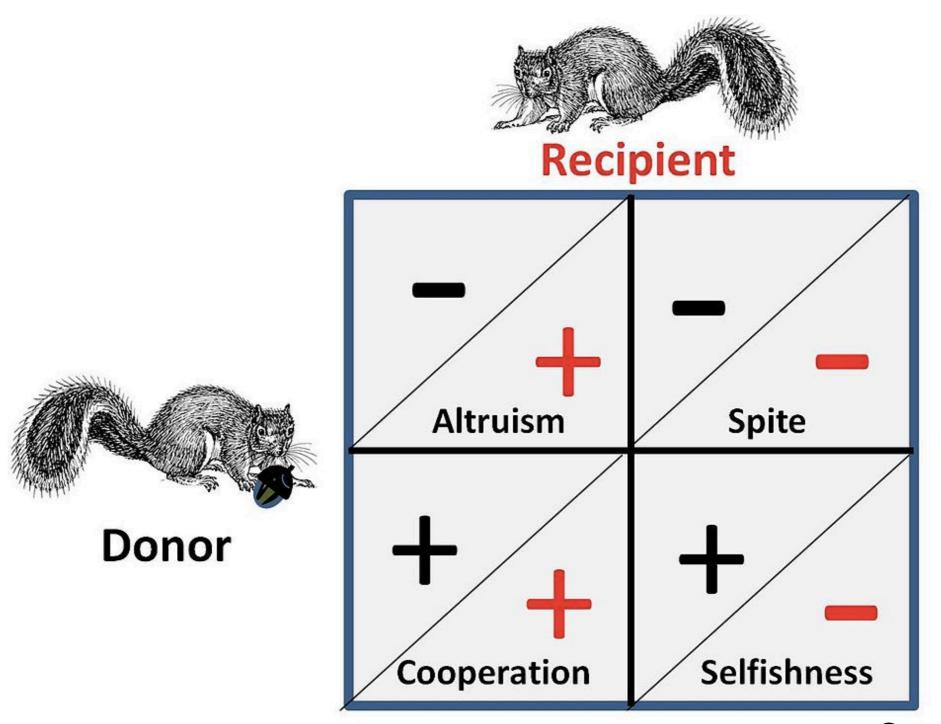
What's not so great?

What do we assume when we assume rational behavior?

Bounded rationality: what is the actual relationship between rationality and equilibria?

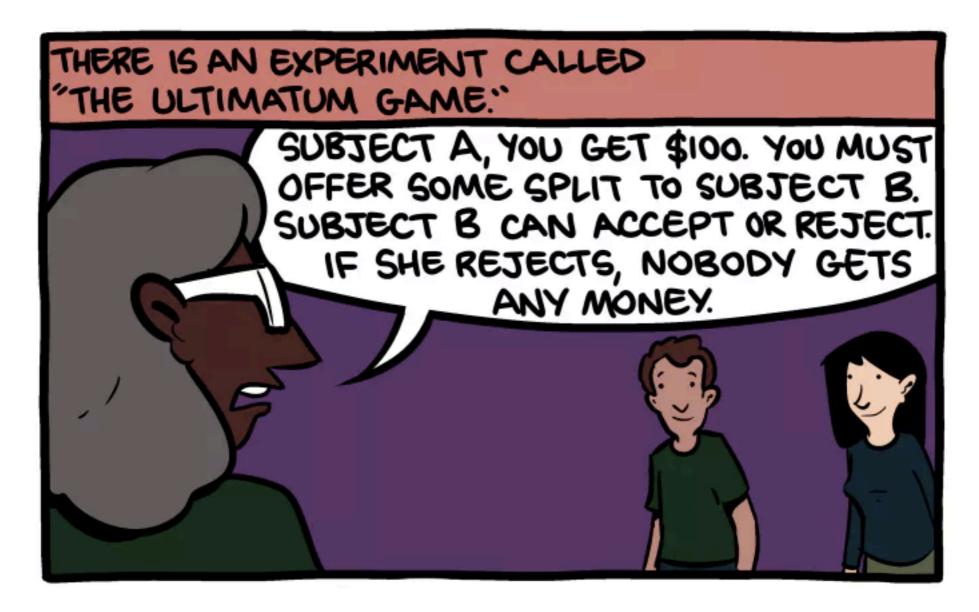
Non-rational players can reach equilibria

Evolutionary games



Source: Wikipedia

The ultimatum game



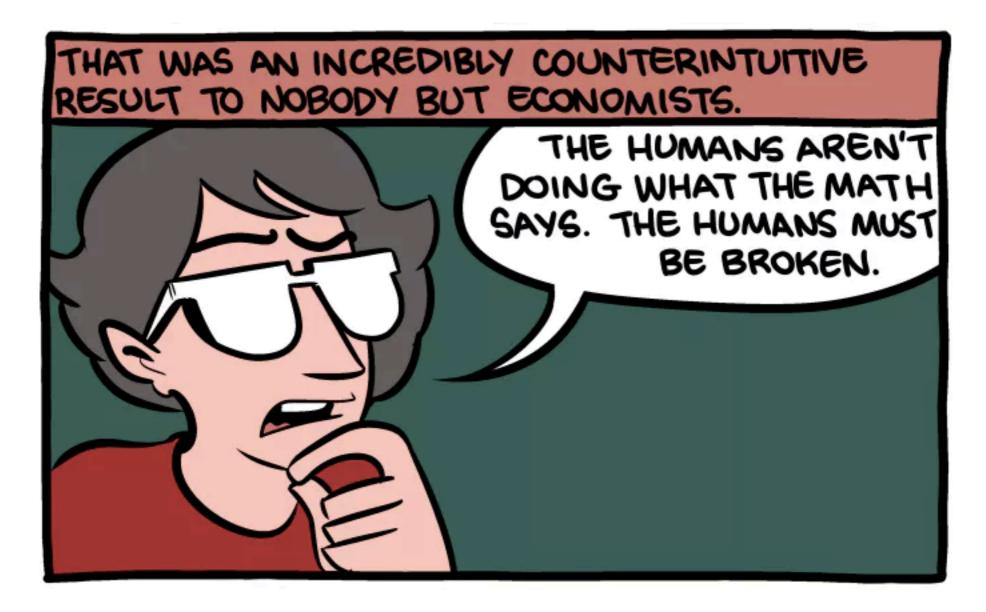
Source: SMBC https://www.smbc-comics.com/comic/2014-10-09

The ultimatum game



Source: SMBC https://www.smbc-comics.com/comic/2014-10-09

The ultimatum game



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Rule rationality

Beyond rationality: crazy strategies & epsilon equilibria

Costly rationality and computation