





CS221

Here are three examples of Nash equilibria. The minimax strategies for zero-sum are also equilibria (and they are global optima).
For purely collaborative games, the equilibria are simply the entries of the payoff matrix for which no other entry in the row or column are larger. There are often multiple local optima here.
In the Prisoner's dilemma, the Nash equilibrium is when both players testify. This is of course not the highest possible reward, but it is stable in the sense that neither player would want to change his/her strategy. If both players had refused, then one of the players could testify to improve his/her payoff (from -1 to 0).

For simultaneous zero-sum games, all minimax strategies have the same game value (and thus it makes sense to talk about the value of a
game). For non-zero-sum games, different Nash equilibria could have different game values (for example, consider the collaborative version
of two-finger Morra).