

**Game Theory
Principles**

**Andreas Blume
6th Homework**

1. What are the principal parts of David Lewis's definition of *convention*.
2. Under what condition is a Nash equilibrium strict?
3. Use the population dynamic introduced in class to find the basins of attraction of the conventions in the coffee-shop game.
4. Use the population dynamic introduced in class to find the basins of attraction of the conventions in the following version of the stag hunt game:

		Neanderthal Man	
		Hunt Stag	Hunt Hare
CroMagnon Woman	Hunt Stag	(9,9)	(0,8)
	Hunt Hare	(8,0)	(7,7)

5. Use the population dynamic introduced in class to find the basins of attraction of the conventions in the Hume's Row Boat.
6. Find each player's minmax strategy in
 - (a) The stag-hunt game.
 - (b) The median game.
 - (c) The minimum game.
7. What is the likely effect of strategic uncertainty in the minimum game
 - (a) when it is played once, and
 - (b) when it is played repeatedly?
8. Show that the median game has multiple mixed-strategy equilibria (i.e. calculate at least two).
9. Show that the minimum game has multiple mixed-strategy equilibria (i.e. calculate at least two).