

# 444 Lecture 2.5 - Famous Games

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# Plan

- Set out some famous games

## Associated Reading

No particular reading; these are scattered through the book.

# Prisoners' Dilemma

	Coop	Defect
Coop	3, 3	0, 5
Defect	5, 0	1, 1

# Generic Symmetric Game

	X	Y
X	a, a	b, c
Y	c, b	d, d

# Prisoners' Dilemma

	X	Y
X	a, a	b, c
Y	c, b	d, d

Ordinal constraints

- $c > a, d > b$
- $a > d$

Cardinal constraints

- $2a > b + c$

# Stag Hunt

	Coop	Defect
Coop	5, 5	0, 4
Defect	4, 0	2, 2

# Stag Hunt

	X	Y
X	a, a	b, c
Y	c, b	d, d

Ordinal constraints

- $a > c, d > b$
- $a > d$

Cardinal constraints

- $a + b < c + d$



# Battle of the Sexes

	Row	Col
Row	4, 1	0, 0
Col	0, 0	1, 4

## Battle of the Sexes (relabelled)

	Self	Other
Self	0, 0	4, 1
Other	1, 4	0, 0

# Chicken

	Attack	Retreat
Attack	-99, -99	2, 0
Retreat	0, 2	1, 1

# Rock Paper Scissors

	Rock	Paper	Scissors
Rock	0, 0	-1, 1	1, -1
Paper	1, -1	0, 0	-1, 1
Scissors	-1, 1	1, -1	0, 0

## For Next Time

We're jumping ahead to section 2.5 of Bonanno.