

What is Game Theory?
-law, sports

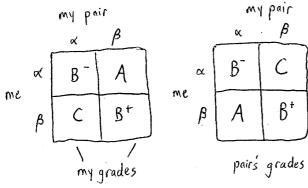
Administration

- filming
- 30-30 40 final
- etc.

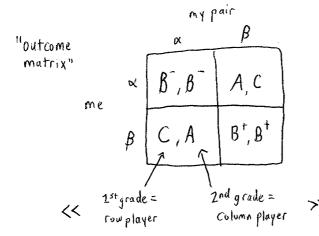
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Jet :

Grade Game



<4 Rather than draw two tables, superimpose them >>



<< Not a game until | know the payoffs - what you value >> possible payoffs (1)

me
$$\alpha$$
 β
 α β

These people care only about their own grade

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We say that my strategy & (Strictly dominates) my strategy B if my payoff from & is strictly greater than that from B regardless of what others do

Lesson 1: Do not play a strictly dominated strategy

Lesson 2: Rational choice can lead to outcomes that suck.

Possible payoffs (2) "Indignant Angels"

me
$$\beta = \frac{0,0}{-3,-1} = -1$$

$$(A,c) \rightarrow \frac{3}{myA} = \frac{4}{myguilt}$$
over pairs C

$$(c,A) \rightarrow -1 - 2 = -3$$
myc indignation

"Coordination problem"

Lesson 3: You can't get what you want,
until you know what you want

4 ie payoffs matter >>

Evil Git v. Indignant Angel « possible payoffs 37,

4 of still dominates - that didn't change - so still chose it >

Indignant Angel v. Evil Git

my pair
$$\mathcal{B}$$

me α 0,0 -1,-1

angel β -3,3 1,1

my α does not dominate my β, but my pair's α dominates her β, so she will choose α. So I should choose α also.

Lesson 4 Put yourself in others's hoes and try to figure out what they will do.

Yale 238 & 36 β

Lesson 5 Yale students are evil

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