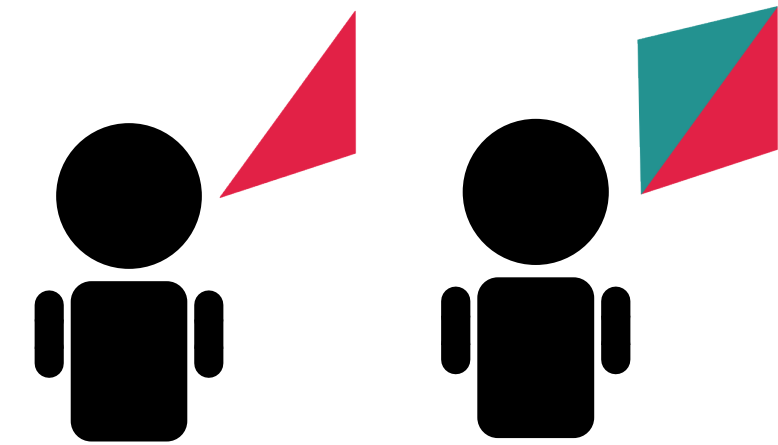


A reactive-1 vs memory-1



reactive-1

Player 1

$p_C = 0.8$
 $p_D = 0.5$

memory-1

Player 2

$m_{CC} = 0.1$
 $m_{CD} = 0.6$
 $m_{DC} = 0.2$
 $m_{DD} = 0.3$

Realized Repeated Game

Player 1

C

C

C

D

D

...

Player 2

D

D

C

D

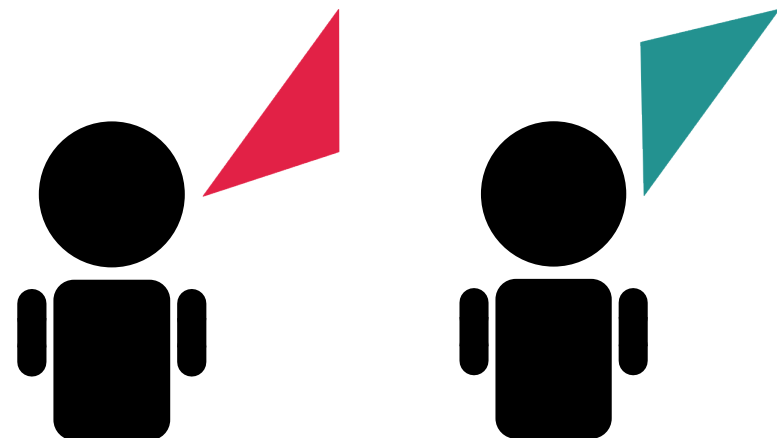
D

...

Outcome distribution

| | |
|--|--|
| <div>C</div> <div>C</div> <div>15%</div> | <div>C</div> <div>D</div> <div>44%</div> |
| <div>D</div> <div>C</div> <div>1%</div> | <div>D</div> <div>D</div> <div>30%</div> |

B reactive-1 vs equivalent self-reactive-1



reactive-1

Player 1

$p_C = 0.8$
 $p_D = 0.5$

self-reactive-1

Player 2

$\tilde{p}_C = 0.3$
 $\tilde{p}_D = 0.24$

Realized Repeated Game

Player 1

C

C

C

D

D

...

Player 2

D

D

C

D

D

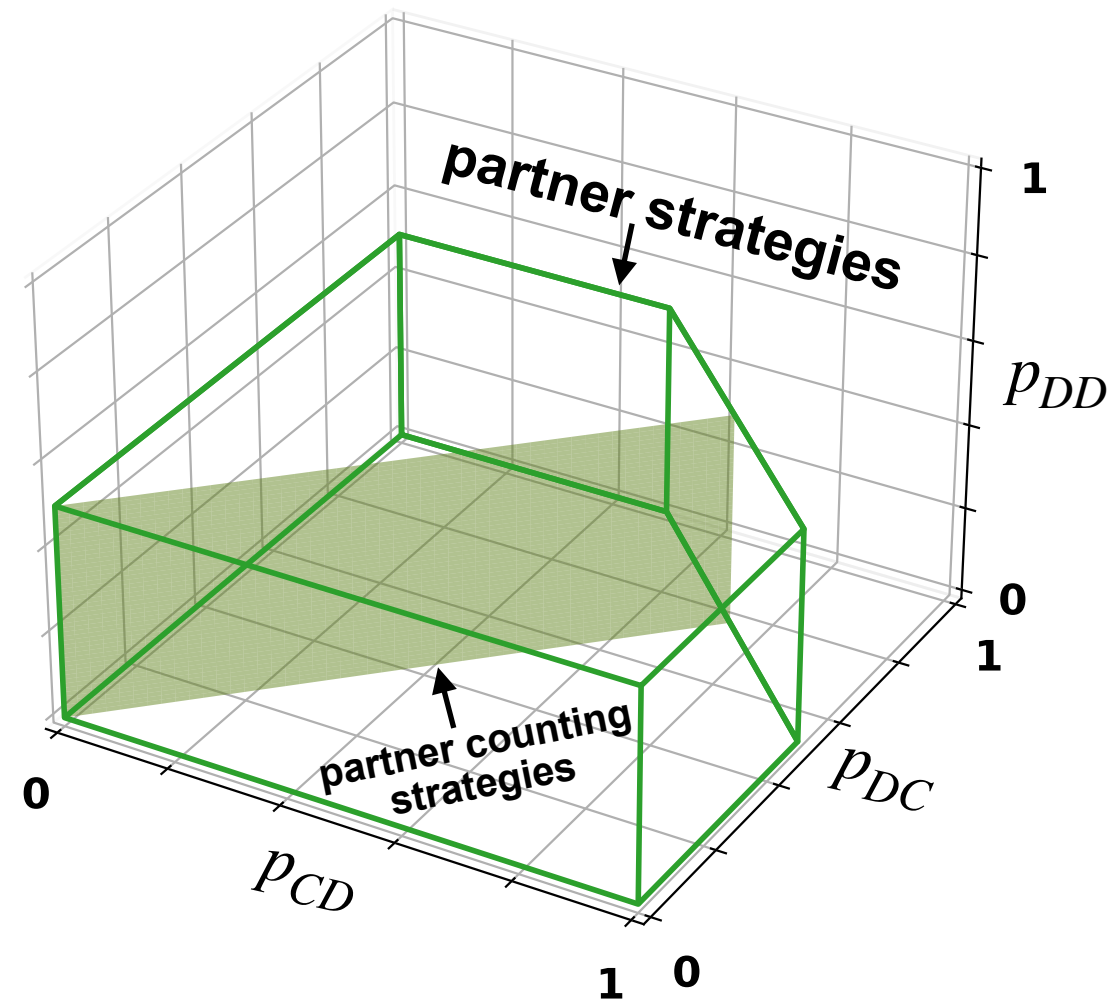
...

Outcome distribution

| | |
|--|--|
| <div>C</div> <div>C</div> <div>15%</div> | <div>C</div> <div>D</div> <div>44%</div> |
| <div>D</div> <div>C</div> <div>1%</div> | <div>D</div> <div>D</div> <div>30%</div> |

C Partners among the reactive-2 strategies

Donation Game ($b/c = 2$)



D Axelrod's Prisoner's Dilemma

