Prisoners and Spatial Structure

@NikoletaGlyn



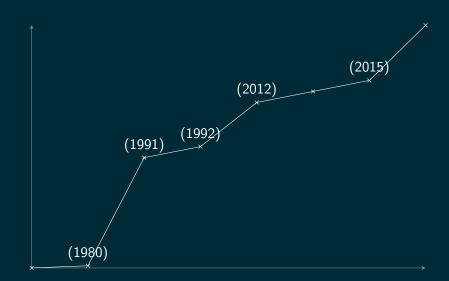
Prisoners and Spatial Structure

$$[(3,3) (0,5)] (5,0) (1,1)]$$

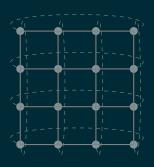
Strategy

```
class Grumpy(Player):
 A player that gets grumpier the more the opposition defects,
 and nicer the more they cooperate. Starts off Nice, but becomes
grumpy once the grumpiness threshold is hit. Won't become nice
 once that grumpy threshold is hit, but must reach a much
 lower threshold before it becomes nice again.
 self.grumpiness = opponent.defections - opponent.cooperations
 if self.state == 'Nice':
     if self.grumpiness > self.grumpy_threshold:
         self.state = 'Grumpy'
         return D
 if self.state == 'Grumpy':
     if self.grumpiness < self.nice_threshold:</pre>
         self state = 'Nice'
      return D
```

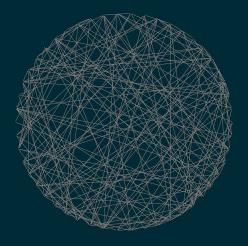
History Line



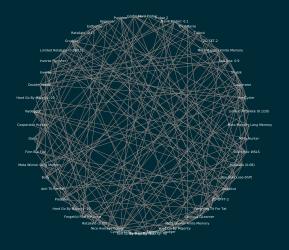
Nowak and May, 1992



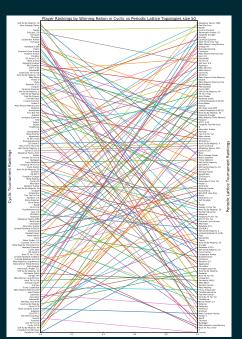
What do real life interactions look like?



What do real life interactions look like?



Measurements



@NikoletaGlyn https://github.com/Nikoleta-v3 https://github.com/Axelrod-Python/Axelrod	