

Interests, Interactions, Institutions and Game Theory

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Today's Class

- Interests, Interactions, Institutions
- Strategic Interaction
- Game Theory Primer



Central Question

How do we theorize and explain world politics?



Key terms

- Interests
- Strategic Interactions
- Institutions
- Rationality
- Cooperation
- Bargaining
- Prisoner's Dilemma
- Collective Action Problem



General Goal: Theory Development

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- Political scientists develop **theories**: a logically consistent set of statements that explain a phenomenon of interest.
- Good theories simplify complexity to identify the most important factors in explaining that phenomenon.
- Goal is **probabilistic claims**: successful theories identify the factors that make something more or less likely.
 - Political scientists tend to avoid absolute claims, unlike theories from the physical sciences.



Theory Components

■ **Actors**: the basic units of any analysis.



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- Actors: the basic units of any analysis.
- What is the primary actor in IR?



Theory Components

- Actors: the basic units of any analysis.
- What is the primary actor in IR?
 - The state.
- All actors have interests: the political goals and objectives they pursue; what they want to achieve in any given situation.



Interest Examples

Actor	Potential Interests
States	Security, power, wealth, ideology
Politicians	Remain in office, ideology, policy goals
Bureaucracy	Budget/influence maximization, policy goals
International Organizations	Reflects interests of member states, conditioned on their voting power and other sources of influence
Firms, industry groups	Wealth, profit
NGOs	Ideology, moral, policy goals
Voters	Income, security, ideology, moral, policy



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- **Interactions**: how the choices of two or more actors combine, producing political outcomes.



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- **Interactions**: how the choices of two or more actors combine, producing political outcomes.
- These interactions can be **strategic**: each actor's strategy depends on what they anticipate other actors will do.
- Actors purposefully develop strategies that they believe will be the best response to the anticipated strategies of others.
- We'll come back to this shortly with game theory.



Institutions

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- Examples?



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- Examples?
 - UN
 - NATO
 - World Trade Organization
 - International Monetary Fund



■ Identify the relevant actors and their interests



- Identify the relevant actors and their interests
- Describe the choices or actions they must choose from



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- Think about how those choices interact to produce outcomes



- Identify the relevant actors and their interests
- Describe the choices or actions they must choose from
- Think about how those choices interact to produce outcomes
- Consider whether institutions structure the interaction



The Iraq War





Building up to the Iraq War

- Gulf War in 1991
- US- and UN-led sanctions throughout 1990s
- \bullet 9/11 and the War on Terror
- George W. Bush argues that Iraq has WMDs; does not get UN support for intervention
- March 2003: US invades Iraq with intent to overthrow the regime



The Iraq War





The Iraq War and its effects

- May 2003: Bush declares "mission accomplished"
- Insurgency continues throughout the 2000s
- January 2007: Bush pledges surge of troops to Iraq
- December 2011: Obama withdraws
- June 2014: Obama dispatches troops to respond to Islamic State
- December 2021: Roughly 2,500 US troops in Iraq in support roles



Casualties as of November 2019

Costs of War Project

- 4,572 US troops, 3,588 US contractors, est. 50,000 Iraqi military and police deaths
- Est. 37,000 opposition fighter deaths
- Est. 200,000 civilian deaths
- Economic cost: Nearly \$2 trillion for the US alone



Group Discussions

- Who are the relevant actors?
- What are the actions they could have taken?
- How did the actions that they chose interact to produce outcomes?
- (How) did institutions structure the interaction?



Institutions and Anarchy

■ But what about anarchy?



Institutions and Anarchy

- But what about anarchy?
- Most states follow institutional rules most of the time. Why?



Institutions and Anarchy

- But what about anarchy?
- Most states follow institutional rules most of the time. Why?
- Answering this requires answering a bigger question...



Interaction Types

What kind of interactions do we observe between actors?



Almost all of the interactions we discuss in this course are strategic interactions: Each actor's strategy depends on what strategy they anticipate other actors will use.



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- Thus, strategic interactions involve attempts by actors to successfully anticipate the actions of others.
- This gives rise to two fundamental different types of strategic interaction: cooperation and bargaining.



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- Game theory allows us to find stable outcomes that result from strategic interaction.
- Game theory assumes that all actors are **rational**.



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- This assumption is not always descriptively accurate.
- But it is especially suited to studying politics.



Game theory lets us analyze both cooperation and bargaining.



- Game theory lets us analyze both cooperation and bargaining.
- In any game-theoretic analysis, we always assume all the actors are rational.
 - If this assumption does not hold, game theory stops working.



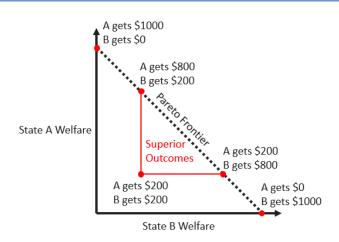
Cooperation

Cooperation: an interaction in which two or more actors adopt policies that make at least one actor better off relative to the status quo without making others worse off.

- Also called positive-sum game.
- Cooperating actors are often able to reach the Pareto
 Frontier: The possible divisions of the maximum benefit for all actors.



Cooperation





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 - Everyone benefits from driving on the same side (fewer crashes).
 - No one has an incentive to defect (driving on the opposite side), since that will lead to a crash.
 - Coordinating on an outcome is generally more important than what that outcome is (ex: it doesn't matter which side of the road everyone drives on, as long as it's the same).



Cooperation Types - Collaboration

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- Collaboration: Actors can gain from cooperating, but at least one has some incentive to defect.
- In IR, there are two important recurring collaboration scenarios: the **Prisoner's Dilemma** and **collective** action problems.



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- If both suspects provide evidence against the other, they each get a medium sentence because they helped the police secure their convictions.



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- The outcome for an actor is sometimes called their **payoff**.



 $\blacksquare \ \{ \mathit{C}, \mathit{C} \} \ \rightarrow$



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Prisoner's Dilemma Outcomes

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- Each actor in the Dilemma has a similar utility function. U(x) = x where x is the number of years in jail.
- We can conceptualize of years in jail as negative, so maximizing the function means finding the least negative number.



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 - U(x) = 0



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- Once we have these amounts, they can be visualized in a table...



		Actor 2	
		C	D
Actor 1	C	1's payoff, 2's payoff	
	D		



Actor 2 C DActor 1 C -1, -1 -10, 0 D 0, -10 -5, -5



Actor 2
$$C$$
 D

Actor 1 C
 $-1, -1$
 $-10, 0$
 D
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- There is a unique equilibrium: both actors will defect.
- We know this because there's no unilateral deviation from choosing D that is profitable.
- Why can't the actors agree to cooperate given that each would be better off?
- Each always has an incentive to defect!



Prisoner's Dilemma in Politics

Despite its simple premise, the PD can be applied to important political examples:

Nuclear (or conventional) arms races



Prisoner's Dilemma in Politics

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Prisoner's Dilemma in Politics

Despite its simple premise, the PD can be applied to important political examples:

- Nuclear (or conventional) arms races
- Striking first in a war
- Raising tariffs and other trade barriers



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- By definition, you cannot prevent someone from enjoying a public good, and the amount of that good that they "consume" does not decrease the amount available for others.



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- Public good: a good that is nonexcludable and nonrival.
 - Ex: clean air, national defense, addressing climate change
- By definition, you cannot prevent someone from enjoying a public good, and the amount of that good that they "consume" does not decrease the amount available for others.
- What incentive does a rational actor have to pay the costs required to provide such a good?



■ None!



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- If every actor thinks like that, what happens?
- The public good is under-provided or not provided at all.
- This is the core of the collective action problem: all members of a group benefit from the provision of the public good, but all have incentives to "defect" by not helping pay the costs of providing the good, and so the public good is never provided.



Brief Summary of Game Theory (So Far)

- Cooperation
 - Coordination
 - Collaboration
 - Prisoner's Dilemma
 - Collective Action Problems/Public Goods
- Bargaining

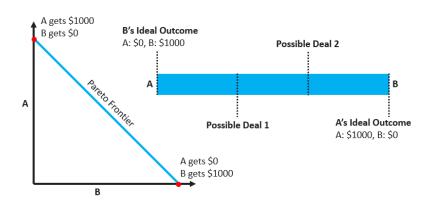


Bargaining

- Bargaining: an interaction in which two or more actors must choose outcomes that make one better off at the expense of the others.
 - Also called zero-sum game.
- Here, any gain for one actor always means a loss for another actor.



Bargaining





• How can we encourage better outcomes for cooperation between actors? How can actors escape the trap of the PD and collective action problems?



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Number and Relative Size

 Easier for smaller number of actors to cooperate and monitor each other's behavior, preventing opportunities for defection.



Number and Relative Size

- Easier for smaller number of actors to cooperate and monitor each other's behavior, preventing opportunities for defection.
- For public good provision, it may be in the interest of a relatively large member to provide the good for the group—if that member receives benefits sufficient to justify the entire costs.
 - Ex: National defense; US funding NATO



Iteration

• Cooperative outcomes are more likely when actors have repeated interactions.



Iteration

- Cooperative outcomes are more likely when actors have repeated interactions.
- Why? Even if defection incentives exist in current interaction, if other actors withhold their cooperation in the future in interactions with "defectors", actors may be induced to cooperate by fear of losing future benefits.
 - Ex: Iterated Prisoner's Dilemma sees actors converge on cooperation.



Issue Linkage

- Issue Linkage: Tying cooperation in one policy area with cooperation in another area.
- "I'll cooperate here if you cooperate there."



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- Differs from iteration as iteration focuses on the future, while this focuses on other policy areas in the present.



Information

Providing information allows actors to coordinate their responses.



Information

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- Imagine the Prisoner's Dilemma, but both prisoners are in the same cell and can communicate...



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- Institutions enable cooperation by providing information, creating iteration, and enabling issue linkage.
- In this way, institutions can facilitate cooperation that would have been unlikely without them.
- It is less costly to use existing institutions, even if imperfect, than to establish new ones.



How do institutions accomplish this?



How do institutions accomplish this?

- Setting standards of behavior
- Verifying compliance with rules and decisions
- Reducing the costs of joint decision making
- Selecting rules of interaction that make cooperation more likely

Even biased institutions can still be helpful in this regard.



Institutions and Policy Bias





Institutional Bias

- Example: the International Monetary Fund (IMF).
- The EU and the US each have enough votes within the IMF to veto any major decision by the organization.



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- Many critics charge that the IMF, as a result, is biased in its policies toward the interests of the developed countries.
- Few (no?) institutions are wholly neutral.



Summary |

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- We can analyze strategic interactions through game theory.
- Game theory requires that we assume actors are rational.
- This assumption yields interesting results: cooperation and bargaining in general, as well as the PD and collective action problems.
- International institutions can enable beneficial cooperative outcomes even in an environment of anarchy.