



















5

#2: greed and grievance

Individuals will place contextspecific constraints on assessments so as to preserve key normative values (Tetlock et al 2000).

Increasing material incentives can actually strengthen opposition among those attached to a "sacred value" (Ginges et al 2007).

Conversely, symbolic non-material concessions may increase the scope for compromise and agreement (Atran and Axelrod 2008).



#3: intrinsic/extrinsic motivation

- While the researchers have yet to fully agree (Hecker 2011), it is clear that, under some conditions:
 - intrinsic motivations may better promote engagement and learning
 - intrinsic motivators better correlate with quality, while extrinsic motivators better correlate with quantity (Cerasoli, Nickin and Ford, 2014)
 - extrinsic motivators can "crowd out" intrinsic motivators

#4: culture matters*

The normative value placed on principles and objects varies across cultures.

- Israeli and Palestinian views of Jerusalem
- American views of guns and healthcare
- British views of Europe



#4: c	ulture	matte	ers*	
Some variation	across culti	ures in "style	" of game	e
interaction for	rovomnlo	moro individ	undict vo	moro
interaction—rc	or example, i	more individ	lanst vs r	nore
collective cultu	res (Hemesa	ath and Pomi	ponio 199	98; see
also Parks and	\/ 100 <i>/</i> .)			
also Parks and	Vu 1994).			
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also Parks and	Vu 1994). TABL	E 2 ad Cooperation Ch	pices:	
also Parks and Breakdow	Vu 1994). TABL vn of Defection ar American-Chir	E 2 nd Cooperation Ch nese Sample	oices:	
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also Parks and Breakdor	TABL vn of Defection ar American-Chir Defect (%) 31 (46.3)	E 2 ad Cooperation Ch nese Sample Cooperate (%) 36 (53.7)	oices:	
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also Parks and Breakdow China United States Total	Vu 1994). TABL wn of Defection ar American-Chir Defect (%) 31 (46.3) 41 (74.5) 72 (59)	E 2 ad Cooperation Cha nese Sample Cooperate (%) 36 (53.7) 14 (25.5) 50 (41)	oices: <u> <i>Tbtal</i></u> 67 55 122	

BUT such "nati	onal" cultural	effects are often	quite
limited and ambi	iguous		
	Dictator Game	Ultimatum Game	
United States	\$39.81	\$48.51	
India	\$37.75	\$45.14	
Both	\$38.78	\$46.83	
Nouri and Traum,	2013.		
Nouri and Traum,	2013.		
Nouri and Traum, Ultimatum Game	2013. e United States	Russia	
Nouri and Traum, Ultimatum Game Female	2013. United States 45.3	Russia 45.2	
Nouri and Traum, Ultimatum Game Female Male	2013. E United States 45.3 31.5	Russia 45.2 35-3	



#4: culture matters*

- Play style also varies as much (or more):
 - age/generation
 - male/female
 - urban/rural/class/education/market integration
 - personality type
 - 🔕 etc.
- Occupational subcultures can have substantial effects on game play.



#5: subculture matters

Similarly, Mintz et al (2006) showed that university students and military officers game crises in demonstrably different ways, despite having a common "national" culture.

TABLE 1 Differences between Students and Military Commanders in Choosing "Do Nothing" versus "Do Something" (in Percentages)				
	Choice			
Subject Group	Do Nothing	Do Something		
Students	35	65		
Military	8	92		

Globalization may create some convergence along professional rather than national lines—ie, diplomats tend to have similar educations, background, and interactions, and their 'styles" have converged despite ethnicity, religion, etc.

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#7: lessons from prediction

- "Wargames are not predictions..."
- ...yet they certainly contain elements that value predictive accuracy:
 - focus on plausible processes and outcomes.
 - effective play requires anticipation of an opponent's potential moves.
- What does the literature on political prediction tell us that might be useful? (Tetlock 2005, Tetlock and Gardner 2015)

#7: lessons from prediction

- Cognitive style may matter as much formal expertise.
 - "hedgehogs" vs "foxes"
- Bayesian updating is essential.
- Aggregate assessments outperform individual ones.
- Diverse teams outperform homogenous ones.
- Long-term forecasting unreliable.
- Unflinching post-mortems and accountability help.

#8: threats, deterrence, and signaling

- Deterrence theory and other aspects of international relations theory remain deeply rooted in rationalist assumptions.
 - credible threats and costly bargaining (Fearon 1995, 1997)
- Sut, such assumptions are deeply problematic:
 - perception (Jervis 1976)
 - social constructivism (Wendt 1999)
 - cognitive psychology (Stein 2013)

#8: threats, deterrence, and signaling

Thomas Schelling (2016) on a key finding the RAND (1960s) crisis games:

"Everybody... was astonished at how poorly they had signaled to the adversary what they took seriously, how badly each side had read the other's behaviour and interpreted how far they were willing to go or what they took seriously, and how many things of no significance they spent a lot of time analyzing."

#8: threats, deterrence, and signaling

Insights from cognitive psychology (Stein 2015):

- preference for simplicity
- averse to ambiguity and dissonance
- predisposed to listen to hawks, magnify threat
- resist updating
- poor at estimating probability
- heightened sensitivity to (relative) losses
- fundamental linkages between emotion, reason, and perception
 - effects of fear, anger, humiliation
 - individual and collective



#10 social dynamics are often non-linear

- framing effects (corruption)
- opportunity effects (protest)
- declining returns (patronage)
- curvilinear (repression, democracy and stability)
- homeostatic vs cascading systems (Arab Spring)



references

Atran, S. and Axelrod, R. 2008. Reframing sacred values. Negotiation Journal 24(3).

- Bauman, Y. 2012. Are economists selfish? A lit review. Stand-Up Economist blog, 1 January. Accessed at: http://standupeconomist.com/are-economists-selfish-a-lit-review/
- Botelho, A., Hirsch, M., Rutstrom, E. (2000) Culture, nationality, and demographics in ultimatum games. Working Paper 7, Núcleo de Investigação em Microeconomia Aplicada, Universidade do Minho. https://repositorium.sdum.uminho.pt/bitstream/1822/2031/1/nimawp7.pdf
- Carter, M., Gibbs, M., and Arnold, M. 2015. The demarcation problem in multiplayer games: Boundary-work in EVE Online's eSport. *Game Studies* 15 (1).
- Cerasoli, C.; Nicklin, J.; and Ford, M. 2014. Intrinsic motivation and extrinsic incentives jointly predict performance: A 40-year meta-analysis. *Psychological Bulletin* 140 (4).
- Fearon, J. 1997. Signaling foreign policy interests: Tying hands versus sinking costs. *Journal of Conflict Resolution* 41(1).
- Frank, A. 2012. "Gaming the game: A study of the gamer mode in educational wargaming." Simulation & Gaming 43 (1).
- Frank, A. 2013. "Achieving game goals at all costs? The effect of reward structures on tactics employed in educational military wargaming." In S. Meijer and R. Smeds, eds., Frontiers in Gaming Simulation. Springer International Publishing.

references

Gneezy, A. and Fessler. D. 2011. Conflict, sticks and carrots: war increases prosocial punishments and rewards. *Proceedings of the Royal Society B*, 8 June. Accessed at: http:// rspb.royalsocietypublishing.org/content/early/2011/06/03/rspb.2011.0805

Ginges, J. et al. 2007. Sacred bounds on rational resolution of violent political conflict. Proceedings of the National Academy of Science 104(18).

Hecker, C. 2011. Achievements considered harmful? Chris Hecker blog. Accessed at http:// chrishecker.com/Achievements_Considered_Harmful%3F

Hemesath, M., and Pomponio, X. 1998. Cooperation and culture: Students from China and the United States in a prisoner's dilemma. Cross-Cultural Research 32 (2).

Jervis, R. 1976. Perception and Misperception in International Politics. Princeton: Princeton University Press.

Liberman, V, Samuels, S., and Ross, L. 2004. The name of the game: Predictive power of reputations versus situational labels in determining prisoner's dilemma game moves. *Personality and Social Psychology Bulletin* 30 (9).

Mintz, A., Redd, S. B., Vedlitz, A. 2006. Can we generalize from student experiments to the real world in political science, military affairs, and international relations? *The Journal of Conflict Resolution*, 50 (5).

references

Nouri, E. and Traum, D. (2013) Prediction of game behavior based on culture factors. Conference on Group Decision and Negotiation, Stockholm. Accessed at: http://ict.usc.edu/pubs/Prediction %20of%20Game%20Behavior%20Based%20on%20Culture%20Factors.pdf

Oosterbeek, H., Sloof, R, and van de Kuilen, G. 2004. Cultural differences in ultimatum game experiments: Evidence from a meta-analysis. *Experimental Economics* 7 (2).

Parks, C. and Vu, A. 1994. Social dilemma behavior of individuals from highly individualist and collectivist cultures. *Journal of Conflict Resolution* 38 (4).

Schelling, T. 2016. Red vs Blue. In P. Harrigan and M. Kirschenbaum, *Zones of Control: Perspectives on Wargaming*. Cambridge, MA: The MIT Press.

Stein, J. 2013. Threat perception in International relations. In Huddy, L., Levy, J., and Sears, D. eds. The Oxford Handbook of Political Psychology 2nd ed. Oxford: Oxford University Press.

Tetlock, P. et al. 2000. The psychology of the unthinkable: Taboo trade-offs, forbidden base rates, and heretical counterfactuals. *Journal of Personality and Social Psychology* 78(5).

Tetlock, P. 2005. Expert Political Judgment. Princeton: Princeton University Press.

Tetlock, P. and Gardner, D. 2015. Superforecasting: The Art and Science of Prediction. Toronto: Signal/McClelland & Stewart.

Wendt, A. 1999. Social Theory of International Politics. Cambridge: Cambridge University Press.

Woods, S. 2012. Eurogames: The Design, Culture, and Play of Modern European Board Games. Jefferson, NC: McFarland.