Table Render Test

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1 Abstract

The values and norms define the preferences, behaviors and discourses, and the preferences for promotion and assertion of which vary across contexts and goals. This study aims to analyze the value and norm assertion preferences by the world leaders or senior government officials in their United Nations General Debate (UNGD) speeches, and investigates how they differ from the values and norms of their citizens and the priorities of the United Nations (UN) outlined by the UN Secretary-General's (UNSG) addresses to the UN General Assembly (UNGA). This research employs natural language processing (NLP) methods to extract the sentences carrying value and norm assertions from the text corpora for the speeches, and uses the data for the seventh wave of World Values Survey (WVS) to acquire the value and norm preferences of world populations. The measurements are aggregated into country level for further analysis, and compared with the population preferences in WVS questions and UNSG addresses. The results demonstrate that there is minimal correlation of value and norm preferences between the leaders or senior government officials and their citizens, in line with the empirical arguments for sui generis value assertions. The findings also suggest the possibility that the values and norms could be composed in speeches in such a way that the value assertions by the leaders do not follow a systematic pattern of preference in the scope of the populations and the UN, indicating context-dependent pragmatic preferences. This research is designed to contribute to the constructivist literature in international relations, by employing a quantitative approach on the value and norm evaluations in diplomatic rhetoric, while addressing the possible limitations and potentials for further research.

Table 1: UNGD Sentence and WVS Response Sample Sizes

Country	UNGD	WVS	Country	UNGD	WVS	Country	UNGD	WVS
AND	379	1004	IND	467	1692	NZL	534	1057
ARG	336	1003	IRN	415	1499	PAK	733	1995
ARM	384	1223	IRQ	444	1200	PER	262	1400
AUS	484	1813	JOR	236	1203	PHL	564	1200
BGD	575	1200	JPN	416	1353	ROU	274	1257
BOL	456	2067	KAZ	502	1276	RUS	439	1810
BRA	551	1762	KEN	466	1266	SGP	485	2012
CAN	568	4018	KGZ	405	1200	SRB	384	1046
CHL	535	1000	KOR	451	1245	SVK	298	1200
CHN	541	3036	LBN	316	1200	THA	372	1500
COL	430	1520	LBY	395	1196	TJK	342	1200
CYP	263	1000	MAR	305	1200	TUN	175	1208
CZE	394	1200	MDV	454	1039	TUR	767	2415
DEU	523	1528	MEX	335	1741	UKR	551	1289
ECU	464	1200	MMR	357	1200	URY	313	1000
EGY	309	1200	MNG	361	1638	USA	768	2596
ETH	331	1230	MYS	574	1313	UZB	294	1250
GBR	439	2609	NGA	341	1237	VEN	519	1190
GRC	356	1200	NIC	204	1200	VNM	325	1200
GTM	401	1229	NLD	458	2145	ZWE	349	1215
IDN	334	3200						

Table 2: Number of Hand-Labeled UNGD Sentences per Question and Response

Question	Resp.	Count	Question	Resp.	Count	Question	Resp.	Count
Q8	1	13	Q65	4	47	Q152, Q153	1	27
Q8	2	10	Q69	1	16	Q152, Q153	2	20
Q11	1	21	Q69	2	17	Q152, Q153	3	23
Q11	2	25	Q69	3	12	Q152, Q153	4	45
Q17	1	16	Q69	4	12	Q154, Q155	1	37
Q17	2	10	Q70	1	13	Q154, Q155	2	42
Q65	1	26	Q70	2	28	Q154, Q155	3	33
Q65	2	17	Q70	3	25	Q154, Q155	4	40
Q65	3	41	Q70	4	10			

Table 3: Number of Predicted UNGD Sentences per Question and Response

Question	Resp.	Count	Question	Resp.	Count	Question	Resp.	Count
Q8	1	68	Q65	4	31	Q152, Q153	1	518
Q8	2	96	Q69	1	76	Q152, Q153	2	863
Q11	1	32	Q69	2	111	Q152, Q153	3	435
Q11	2	190	Q69	3	65	Q152, Q153	4	282
Q17	1	150	Q69	4	534	Q154, Q155	1	1256
Q17	2	106	Q70	1	220	Q154, Q155	2	880
Q65	1	165	Q70	2	851	Q154, Q155	3	188
Q65	2	24	Q70	3	159	Q154, Q155	4	421
Q65	3	225	Q70	4	72			

Table 4: Training Hyperparameters by Model

Model	Response Type	Sentence Augmentations	Word Replacements	Validation Size	Iterations	Learning Rate
Q8	Binary	3	1	0.40	2000	0.07
Q11	Binary	3	1	0.30	2000	0.01
Q17	Binary	7	1	0.50	2000	0.01
Q65	Ordinal	3	1	0.27	2000	0.01
Q69	Ordinal	2	1	0.45	2000	0.06
Q70	Ordinal	5	1	0.30	2000	0.03
Q152, Q153	Categorical	3	1	0.40	2000	0.05
Q154, Q155	Categorical	3	1	0.40	2000	0.05

Model	Depth	L2 Leaf Regularization	Random Strength	Bagging Temperature	Loss Function	Evaluation Metric
Q8	5	30	10	10	Log-Loss	F1
Q11	5	30	7	15	Log-Loss	F1
Q17	4	135	15	0.70	Log-Loss	F1
Q65	4	32	9	0.40	Multi-Class Log-Loss	Macro F1
Q69	5	50	2	5	Multi-Class Log-Loss	Macro F1
Q70	5	20	7	6	Multi-Class Log-Loss	Macro F1
Q152, Q153	8	10	0	0	Multi-Class Log-Loss	Macro F1
Q154, Q155	8	10	0	0	Multi-Class Log-Loss	Macro F1

Table 5: Response and Adapted Hypotheses Examples by Question and Response

Question	Resp.	Response Hyp.	Adapted Hyp. I	Adapted Hyp. II	Adapted Hyp. III
Q8	1	It is important for children to be independent.	We believe that nurturing the capacity to act autonomously is central to human dignity.	In our view, societies flourish when individuals are trusted to make decisions for themselves.	Empowering each person to think, choose, and act independently remains a cornerstone of our values.
Q8	2	It is not important for children to be independent.	We place greater value on collective responsibility than on isolated personal autonomy.	In our society, interdependence and mutual care take precedence over individual separation.	A strong moral compass is shaped not in solitary assertion, but through shared obligations.
Q11	1	It is important for children to be imaginative.	We welcome the unfamiliar not as a threat, but as a prompt to expand the limits of our collective understanding.	It is often in the absence of fixed answers that the deepest forms of insight begin to take shape.	Our growth as a society depends on those moments when curiosity is permitted to exceed instruction.
Q11	2	It is not important for children to be imaginative.	In our experience, the most reliable outcomes arise from the mastery of what already endures.	We find that consistency secures the trust that communities depend upon.	Order does not emerge from flights of speculation, but from careful repetition and restraint.
Q17	1	It is important for children to be obedient.	A well-ordered society begins with those who understand when to listen and when to yield.	The strength of institutions lies in the ability of individuals to respect boundaries not drawn by themselves.	There is merit in restraint, especially when it reflects shared purpose over personal impulse.
Q17	2	It is not important for children to be obedient.	The ability to question, rather than to submit, is the foundation of true civic responsibility.	Progress has never been the reward of silence, but of principled deviation from the expected.	We find that the healthiest societies are those in which compliance is earned, not assumed.
Q70	1	One has a great deal of confidence in the justice system.	Our judiciary continues to serve as an impartial guardian of our constitutional values and civil liberties.	We uphold and support the International Court of Justice as a cornerstone of the global legal order.	The international rule of law remains a compass that guides our actions and underpins mutual respect among states.
Q70	2	One has quite a lot of confidence in the justice system.	Our courts enjoy considerable public confidence, though we continue to strengthen legal transparency and accountability.	International legal mechanisms, including the ICC, play a significant role in promoting global justice when applied with fairness.	Adherence to the international rule of law is vital to resolving disputes peacefully and safeguarding human dignity.
Q70	3	One has some confidence in the justice system.	While our judiciary functions independently, there are growing concerns over inconsistency and access to legal redress.	Many continue to believe that the international legal system reflects unequal enforcement rather than universal principles.	Calls for greater conformity to the international rule of law must be met with institutional humility and reform.
Q70	4	One has little or no confidence in the justice system.	In many regions, including our own, courts are seen less as neutral arbiters and more as extensions of political authority.	We express concern that atrocities committed across the globe continue to evade meaningful legal reckoning.	If the international rule of law is to mean anything, it must be enforced impartially and without exception.

Table 6: Predicted Sentence Examples by Question and Response

Question	Resp.	Response Hyp.	Sentence I	Sentence II	Sentence III
Q8	1	It is important for children to be independent.	All of this leads us to the conclusion that the Artsakh people's exercise of the right to self determination is of vital importance.	More importantly, we should respect a country's independent choice of development path and model.	Far too many mothers are living in fear, unsure of the fate of their children, and far too many children are seeing their futures crumble in front of them.
Q8	2	It is not important for children to be independent.	It forced us to acknowledge how interconnected and therefore how reliant we are on one another.	We meet yet again to voice our positions on the major challenges facing our family the human family.	Only when such commitment is guaranteed can we enter a new, brighter chapter in the history of humankind a chapter of cooperation and dialogue a chapter of sustainable peace and development.
Q152, Q153	1	Over the coming years, the government should emphasize a high level of economic growth.	There is also an urgent need to mobilize resources to help countries in post conflict situations rehabilitate their institutions and begin reconstruction and development.	The path of development that China is pursuing has provided the world with opportunities for shared development.	It will continue to confront difficulties and crises, make breakthroughs and have successes in development.
Q152, Q153	2	Over the coming years, the government should prioritize ensuring the country has strong defense forces.	On the new frontiers of global governance, such as cyberspace and outer space, state sovereignty must be upheld, rules observed and responsibilities honoured.	Throughout our history, we have worked tirelessly to realize our ambitions both at home and elsewhere in the world.	Globally, we are facing new crises, and many of them, unfortunately, are caused willingly by humans by disrespecting the sovereignty of states.
Q152, Q153	3	Over the coming years, the government should focus on ensuring that people have more say about how things are done at their jobs and in their communities.	I am talking about this because I am sure that one of the main challenges for humankind today is building democracies that truly speak and listen to the people and achieve the desired results.	We need important reforms among them the reform of the Security Council, whose current configuration reflects a world that no longer exists.	We aim to consolidate our democratic commitment and promote wider citizen engagement in governance.
Q152, Q153	4	Over the coming years, the government should prioritize work to make the nation's cities and countryside more beautiful.	We provide food security to one sixth of the world's population, even while preserving 66 per cent of our native vegetation and using only 27 per cent of our territory for animal husbandry and agriculture.	We must recommit to achieving sustainable economies, as well as resilient, fair and inclusive societies where no one is left behind.	Another acute problem of our time is related to global climate change.
Q154, Q155	1	Maintaining order in the nation is of utmost importance.	Mr. President, peace and stability are an indispensable foundation for driving forward the sustainable development agenda, leaving no one behind.	When networks and cartels in government capture the state for their own selfish gain and represent themselves as champions of an ethnic or religious group, the result is all too often civil strife and civil war.	Today's Serbia is committed to peace and, if I may say so, to behaving like an adult.
Q154, Q155	2	Giving people more say in important government decisions is of utmost importance.	That is to say, on each and every issue that pertains to international coexistence, we have affirmed, and will continue to reaffirm, our commitment to multilateralism and the existence of rules that guarantee the fair treatment of each country.	Egypt, like the vast majority of the world's peoples and nations, has a vested interest in restoring the credibility of international multilateral action with the United Nations at its forefront.	Whether it was taking to the streets or changing our laws, we have seen ourselves as members of a community, one that we have a duty to use our voice within.
Q154, Q155	3	Fighting rising prices is of utmost importance.	Numerous crises batter our world, crises that are increasingly interlocked regional conflicts with an international impact, devastating climate change, pandemic disruptions, extremist violence, spiralling inflation, looming recession and, for all too many around the world, the growing reality of hunger.	Our planet shared home and mother earth continues to suffer from the serious consequences of consumerism and the excessive greed for natural resources.	At the global level, that demands collective measures to ensure fair access to affordable food and expedite the movement of staples to countries in need.
Q154, Q155	4	Protecting freedom of speech is of utmost importance.	This must be lauded as there is a dire need to address hate speech domestically.	Moderation is freedom and democracy, conducted in an inclusive and comprehensive manner that does not purport to promote freedom in one place while supporting dictators elsewhere.	In its efforts to promote human rights, the international community must continue to promote respect for fundamental democratic principles throughout the world.

Table 7: Prediction Parameters by Model (Full Dataset, $N > 25{,}700$)

Model	Response Type	Max. Extracted Phrases	N-Gram Range	Confidence Criterion	Conf. Threshold
Q8	Binary	3	(5, 7)	% Diff. from Chance	0.01% (0.5)
Q11	Binary	1	(6, 8)	% Diff. from Chance	0.01% (0.5)
Q17	Binary	3	(5, 7)	% Diff. from Chance	0.01% (0.5)
Q65	Ordinal	3	(5, 7)	% Above Chance	2%
Q69	Ordinal	3	(5, 7)	% Above Chance	2%
Q70	Ordinal	3	(5, 7)	% Above Chance	2%
Q152, Q153	Categorical	3	(5, 7)	% Above Chance	2%
Q154, Q155	Categorical	3	(5, 7)	% Above Chance	2%

Model	Conf. Weight	Cosine Sim. Weight	Cosine Sim. Threshold	Joint Threshold	Diversity Metric
Q8	0.50	0.50	0.40	0.01	0.30
Q11	0.50	0.50	0.40	0.01	0.30
Q17	0.50	0.50	0.40	0.01	0.30
Q65	0.30	0.70	0.45	0.30	0.30
Q69	0.30	0.70	0.45	0.30	0.30
Q70	0.30	0.70	0.45	0.30	0.30
Q152, Q153	0.30	0.70	0.45	0.30	0.30
Q154, Q155	0.30	0.70	0.45	0.30	0.30

Table 8: F1 Scores for Validation and Permutation Tests by Question and Response

Question	Response	Validation Set F1	Permutation Test F1 (Original Training Set)	Permutation Test F1 (Augmented Training Set)	Number of Permutations
Q8	1	0.83	0.61	0.65	100
Q8	2	0.75	0.33	0.34	100
Q11	1	0.80	0.31	0.25	100
Q11	2	0.89	0.62	0.68	100
Q17	1	0.89	0.74	0.76	100
Q17	2	0.75	0.20	0.01	100
Q65	1	0.75	0.20	0.20	20
Q65	2	0.60	0.14	0.16	20
Q65	3	0.58	0.30	0.29	20
Q65	4	0.64	0.36	0.38	20
Q69	1	0.50	0.22	0.32	20
Q69	2	0.53	0.29	0.33	20
Q69	3	0.50	0.21	0.08	20
Q69	4	0.67	0.19	0.21	20
Q70	1	0.50	0.05	0.10	20
Q70	2	0.70	0.41	0.42	20
Q70	3	0.57	0.39	0.39	20
Q70	4	0.50	0.07	0	20
Q152, Q153	1	1.00	0.20	0.19	20
Q152, Q153	2	0.82	0.26	0.11	20
Q152, Q153	3	0.88	0.26	0.12	20
Q152, Q153	4	0.91	0.40	0.47	20
Q154, Q155	1	0.87	0.22	0.20	20
Q154, Q155	2	0.91	0.23	0.33	20
Q154, Q155	3	0.87	0.19	0.21	20
Q154, Q155	4	0.88	0.31	0.28	20

Table 9: Keyphrase Examples

Question	Response	Keyphrase	Cosine Similarity Score with Grouped Hypotheses	Keyphrase Count
Q8	1	raising children navigate life independence responsibility	0.807	3
Q8	2	personal independence harmony social fabric teach children	0.739	3
Q11	1	unpredictability necessary aspires evolve encourage children explore unanswered	0.752	1
Q11	2	prioritize traditions require reinvention retain value children gain	0.684	1
Q17	1	children discipline limitation path collective dignity obedient	0.820	3
Q17	2	important children obedient ability question submit	0.771	3
Q65	1	national unity resilience reaffirm unwavering trust military	0.717	3
Q65	2	nato engagement strengthened capacity affirmed military professionalism	0.744	3
Q65	3	peacekeeping operations offered lessons reflections reform csto	0.760	3
Q65	4	partisan enforcement military alliances nato csto	0.704	3
Q69	1	service reflects rule law finest form peacekeeping	0.725	3
Q69	2	trust policing institutions acknowledge continued reforms peacekeeping	0.816	3
Q69	3	requiring oversight peacekeeping remains evolving instrument effective	0.726	3
Q69	4	accountability misuse power urge reforms international peacekeeping	0.743	3
Q70	1	international court justice cornerstone global legal order	0.787	3
Q70	2	icc play significant role promoting global justice	0.770	3
Q70	3	international legal reflects unequal enforcement universal principles	0.677	3
Q70	4	reckoning international rule law mean enforced impartially	0.657	3
Q152, Q153	1	economic expansion fundamental pathway national resilience prosperity	0.753	3
Q152, Q153	2	prioritize ensuring country strong defense forces affirm	0.800	3
Q152, Q153	3	local councils international forums reforming global governance	0.718	3
Q152, Q153	4	planet children years come place beauty sustainability	0.709	3
Q154, Q155	1	stability public order remain unshaken corner nation	0.731	3
Q154, Q155	2	voice global decision making including fairer multilateral	0.659	3
Q154, Q155	3	countries suffocated price shocks control rise dignity	0.746	3
Q154, Q155	4	protecting freedom speech utmost importance society censors	0.789	3

Appendix

Table 10: WVS Questions and Responses

Question	Response	Question Text	Response Text
Q8	1	Important child qualities: Independence Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Independence	Important
Q8	2	Important child qualities: Independence Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Independence	Not mentioned
Q11	1	Important child qualities: Imagination Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Imagination	Important

Table 10: WVS Questions and Responses (Cont.)

Question	Response	Question Text	Response Text
Q11	2	Important child qualities: Imagination Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Imagination	Not mentioned
Q17	1	Important child qualities: Obedience Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Obedience	Important
Q17	2	Important child qualities: Obedience Here is a list of qualities that children can be encouraged to learn at home. Which, if any, do you consider to be especially important? Please choose up to five. – Obedience	Not mentioned
Q65	1	Confidence: Armed Forces I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The armed forces	A great deal
Q65	2	Confidence: Armed Forces I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The armed forces	Quite a lot
Q65	3	Confidence: Armed Forces I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The armed forces	Not very much
Q65	4	Confidence: Armed Forces I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The armed forces	None at all
Q69	1	Confidence: The Police I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The police	A great deal

Question	Response	Question Text	Response Text
Q69	2	Confidence: The Police I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The police	Quite a lot
Q69	3	Confidence: The Police I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The police	Not very much
Q69	4	Confidence: The Police I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The police	None at all
Q70	1	Confidence: Justice System/Courts I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The courts	A great deal
Q70	2	Confidence: Justice System/Courts I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The courts	Quite a lot
Q70	3	Confidence: Justice System/Courts I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The courts	Not very much
Q70	4	Confidence: Justice System/Courts I am going to name a number of organizations. For each one, could you tell me how much confidence you have in them: is it a great deal of confidence, quite a lot of confidence, not very much confidence or none at all? The courts	None at all

Table 10: WVS Questions and Responses (Cont.)

Question	Response	Question Text	Response Text
Q152	1	Aims of country: first choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the most important?	A high level of economic growth
Q152	2	Aims of country: first choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the most important?	Strong defence forces
Q152	3	Aims of country: first choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the most important?	People have more say about how things are done
Q152	4	Aims of country: first choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the most important?	Trying to make our cities and countryside more beautiful
Q153	1	Aims of country: second choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the second most important?	A high level of economic growth
Q153	2	Aims of country: second choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the second most important?	Making sure this country has strong defence forces
Q153	3	Aims of country: second choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the second most important?	Seeing that people have more say about how are done at their jobs and in their communities

Question	Response	Question Text	Response Text
Q153	4	Aims of country: second choice People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you consider the second most important?	Trying to make our cities and countryside more beautiful
Q154	1	Aims of respondent: first choice If you had to choose, which one of the things on this card would you say is most important?	Maintaining order in the nation
Q154	2	Aims of respondent: first choice If you had to choose, which one of the things on this card would you say is most important?	Giving people more say in important government decisions
Q154	3	Aims of respondent: first choice If you had to choose, which one of the things on this card would you say is most important?	Fighting rising prices
Q154	4	Aims of respondent: first choice If you had to choose, which one of the things on this card would you say is most important?	Protecting freedom of speech
Q155	1	Aims of respondent: second choice And which would be the next most important?	Maintaining order in the nation
Q155	2	Aims of respondent: second choice And which would be the next most important?	Giving people more say in important government decisions
Q155	3	Aims of respondent: second choice And which would be the next most important?	Fighting rising prices
Q155	4	Aims of respondent: second choice And which would be the next most important?	Protecting freedom of speech