

Disentangling Trust and Perceived Trustworthiness

Towards a more distinguished analysis of trust

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Key questions

- 1. Is there a difference between trust and trustworthiness across-countries?
- 2. Are trust and trustworthiness distinct constructs or they belong to the same dimension?
- 3. What are the determinants of trust and trustworthiness?

Definitions of trust (source: Stolle, 2002)

Strategic or rational accounts (Hardin, Yamagishi, Gambetta, Coleman)

Identity or group-based accounts (Tajfel, Turner)

Norm-driven accounts

(Uslaner, Fukuyama, Mansbridge)

Trust implies uncertainty, risk and prudence (Yamagishi, 2011).

" Even those who believe that people are generally honest ... may well be aware that there exist bad people who are potentially harmful. Even if one believes that most people are trustworthy, it may still be a good idea to guard oneself against these "bad eggs...Only those who are prudent in situations in which prudence is required can safely enjoy a high level of general trust".

Norm-driven accounts

Trust is a moral value to treat people if they are trustworthy. (Uslaner, 2002).

"Trusting strangers means accepting them into our "moral community." Strangers may look different from us, they may have different ideologies or religions. But we believe that there is an underlying commonality of values. So it is not quite so risky to place faith in others. If we share a common fate, it is unlikely that these strangers will try to exploit our positive attitudes"



Question 1

Is there a difference between trust and trustworthiness across-countries?

Traditional trust question

Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people?



Trust and caution among American and Japanese students (Source: Miller & Mitamura, 2003)

	Japanese	Americans	A-J
Can you trust strangers	4 —	→ 24	20
Do you feel that you need to be careful with strangers	57 —	→ 69	12
Americans are more trusting	A	mericans are mo cautious	ore

Interpretation

- Cautious trusters are risk-avoiders
- Collectivist values common for Japan deter generalized trust
- Safe social conditions and severe sanctions for opportunistic behavior decreases the level of caution in Japan.



Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people?

How much do you trust people meet for the first time?

Four combinations of trust and trustworthiness

1.Trusting the trustworthy (NDT)

Most people can be trusted Trust in strangers 2. Not trusting the trustworthy (PT)

Most people can be trusted Distrust in strangers

3.Trusting the non-trustworthy (RT)

Careful in dealing with people Trust in strangers 4. Not trusting the nontrustworthy (D)

Careful in dealing with people Distrust in strangers

Four combinations of trust and trustworthiness

1.Trusting the trustworthy (NDT)

11.6 %

2. Not trusting the trustworthy (PT)

14.0 %

3. Trusting the non-trustworthy (RT)

14.2 %

4. Not trusting the nontrustworthy (D)

60.2 %

Combinations of trust and their relation to the definitions of trust

Trust + Trustworthiness



Trust + Caution

Rational trust



Countries with norm-driven trust

	Norm-driven trust	Rational trust
Norway	57.7	8.9
Sweden	55.8	13.5
Finland	38.5	13.5
Switzerland	36.3	13.0
Australia	32.9	17.2
W Germany	19.5	9.1
USA	26.9	16.8

Countries with rational trust

	Norm	driven	trust	Rational	trust
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Rwanda	2.2	32.7
France	14.6	30.6
Mali	9.2	26.9
UK	22.6	25.4
S Africa	5.7	23.4
Burkina Faso	5.2	23.1
Spain	10.2	20.8
Ghana	2.6	20.3

Question 2

Is trust and trustworthiness distinct constructs or they belong to the same dimension?



Justification 1

M. Rosenbergs's "Faith in people scale"

- 1. Some people say that most people can be trusted. Others say you can't be too careful in your dealings with people. How do you feel about it?
- 2. Would you say that most people are more inclined to help others, or more inclined to look out for themselves?
- 3. If you don't watch yourself, people will take advantage of you.
- 4. No one is going to care much what happens to you, when you get right down to it.
- 5. Human nature is fundamentally co-operative.

Justification 2

Full metric invariance of trustworthiness indicators in ESS1 and ESS2

(Reeskens & Hooghe, 2008)



Method and Strategy

- Confirmatory factor analyses with WLS estimator and missing data
- Two-step strategy:
 - Test of one-dimensionality of trust and trustworthiness
 - Test of two-dimensionality of trust and trustworthiness





Model 3 Tree factors, correlated errors Trust unknown people **e**₁ Trust in another nationality **e**₂ Trust e₃ **Trust another religion e**₄ Most people can be trusted Tworth Most people try to be fair **e**₅

Results for pooled WVS5 data-set

	Model 1	Model 2	Model 3
	Model 1	Model 2	Model 5
	(one factor)	(two factors)	(two factors,
			correlated errors)
Chi-Square	6118.372	3606.271	56.437
Degrees of			
freedom	5	4	3
P-value	0.000	0.000	0.000
Chi/df	1223.674	901.567	18.812
	0.129	0.111	0.016
RMSEA	(0.126-0.132)	(108-0.114)	(0.012-0.019)
CFI	0.981	0.989	1.000
TLI	0.963	0.973	0.999
WRMR	12.661	8.754	1.010

Question 3

What are the determinants and outcomes of trust and trustworthiness?



Schwartz Values

Power	It is important to this person to be rich; to have a lot of money and expensive things
Achievement	Being very successful is important to this person; to have people recognize one's achievements
Hedonism	It is important to this person to have a good time; to spoil oneself
Universalism	Looking after the environment is important to this person; to care for nature
Benevolence	It is important to this person to help the people nearby; to care for their well-being
Stimulation	Adventure and taking risks are important to this person; to have an exciting life
Self-direction	It is important to this person to think up new ideas and be creative; to do things one's own way
Tradition	Tradition is important to this person; to follow the customs handed down by one's religion or family
Conformity	It is important to this person to always behave properly; to avoid doing anything people would say is wrong
Security	Living in secure surroundings is important to this person; to avoid anything that might be dangerous

Determinants of Trust and Perceived Trustworthiness

		Personal
Personality	\Rightarrow	Schwartz Values
Socio-Demographics	\Rightarrow	Gender
		Age
		Education
		Household Income (in income quintiles)
Well-Being	\Rightarrow	Life Satisfaction (from $1 =$ dissatisfied to $10 =$ satisfied)
		Community
Civic Involvement	\Rightarrow	Association Membership
		Participation in Elite-Challenging Actions
Religious belonging	\Rightarrow	Religious Denomination
		Societal
Institutional trust	\Rightarrow	Confidence (Police, Courts, Parties, Gov. and Parl.)
Societal Characteristics	\Rightarrow	Level of Development (Human Development Index)
		Level of Democracy (Average FH/Polity score)
		Ethnic Fractionalization (from Alesina et al. 2003)

Determinants of Trust and Perceived Trustworthiness

• Empirical Analysis

• Pooled individual-level analysis across a sample of 52,068 individuals from 45 countries (using WVS5 data)

• <u>Dependent Variable</u>

• Categorical variable capturing combination between perception about the trustworthiness of others and trust in unknown people

Estimation: Multinomial Logistic Regression

- Allowing for country clustered error terms
- Combination D i.e. you cannot be too careful, low trust in unknown people as base outcome

Hypotheses

- H1. People with higher level of universalism, benevolence, and self-direction are more likely trust the trustworthy (norm-driven trust).
- H2. People who take part in elite-challenging actions and formal organizations are more likely to trust the trustworthy (norm-driven trust).
- H3. People who have higher level of institutional confidence are more likely to trust the trustworthy (norm-driven trust).
- H4. People with higher level of stimulation/risk taking are less likely to trust the untrustworthy (rational trust).
- H4a. People with higher level of stimulation/risk taking are more likely to trust the untrustworthy (rational trust).
- H5. People with higher level of conformity, tradition, achievement, power, security and hedonism are more likely not to trust the trustworthy (particularized trust).

Determinants of Trust and Perceived Trustworthiness (Multinomial Logistic Regression Results)

	Not trusting the trustworthy (most people can be trusted, distrust unknown)	Trusting the untrustworthy (cannot be too careful, trust unknown)	Trusting the trustworthy (most people can be trusted, trust unknown)
	PT	RI	NDI
Self-direction	0.945*	1.025	1.025
Security	0.838***	0.897**	0.783***
Achievement	0.913**	0.934**	0.837***
Stimulation	0.998	1.062**	1.059
Conformity	0.915**	0.979	0.882***
Universalism	0.970	1.016	1.092*

Levels of significance: *** < 0.001, ** < 0.01, * < 0.05. Calculation with centered values. Odds Ratios reported

Determinants of Trust and Perceived Trustworthiness (Multinomial Logistic Regression Results)

	Not trusting the trustworthy (most people can be trusted, distrust unknown)	Trusting the untrustworthy (cannot be too careful, trust unknown)	Trusting the trustworthy (most people can be trusted, trust unknown)
	РТ	RT	NDT
Membership	1.311***	1.148	1.468***
Protest	1.028	1.345***	1.628***
Roman Catholic	0.572***	0.927	0.586***
InstitutionalTrust	1.490***	1.585***	2.452***
HDI	4.196	0.358	25.08**
Average FH/Polity	0.889**	1.065	1.010
Levels of significance: Ratios reported	*** < 0.001, ** < 0.01, * < 0.0)5. Calculation with cer	ntered values. Odds





Summary

• Main Findings

- Perceived trustworthiness and trust in strangers do not match perfectly;
- Benevolence, hedonism, power and tradition have no impact on trust types.
- People who have higher level of universalism, trust in institutions, protest participation are more likely trust the trustworthy.
- People who have lower levels of achievement, self-direction, security and conformity are more likely to trust the trustworthy.

Thank you for your attention



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Results for pooled WVS5 data-set

	Model 3 (two factors, correlated errors)	Model 4 (one factor Correlated errors)	Model 4 (one factor Fairness dropped)	Model 5 (model 4 with correlated errors)
Chi-Square	56.437	2670.500	2749.553	86.440
Degrees of				
freedom	3	4	2	1
P-value	0.000	0.000	0.000	0.000
Chi/df	18.812	667.625	1374.776	86.440
	0.016	0.095	0.137	0.034
RMSEA	(0.012-0.019)	(0.092-0.098)	(0.133-0.141)	(0.028-0.040)
CFI	1.000	0.992	0.992	1.000
TLI	0.999	0.980	0.975	0.998
WRMR	1.010	8.149	9.006	1.181

The share of trusting the non-trustworthy

	WVS5	WVS6
Rwanda	32.7%	31.8%
France	30.6%	
Mali	26.9%	
United Kingdom	25.4%	
S Africa	23.4%	29.8%
Burkina Faso	23.1%	
Canada	21.5%	
Spain	20.8%	23.3%
Ghana	20.3%	

The share of trusting the non-trustworthy

Country	WVS5	WVS6
Rwanda	32.7	31.8
S Africa	23.4	29.8
Spain	20.8	23.3
Argentina	19.9	15.7
Trinidad and Tobago	19.6	17.5
Egypt	18.7	21.1
Australia	17.2	12.1
Uruguay	17.1	18.4
USA	16. ⁸	14.6
Poland	12.3	12.8
Taiwan	11.4	13.1

The share of trusting the non-trustworthy

Qatar	23.0		
Lebanon	22.5		
Egypt	21.1		
Chile	19.9		

Correlations between trust in most people and trust in strangers, WVS5



Societal Relevance

- Societal Relevance of different combinations between trust in strangers and perceptions about trustworthiness of others
 - → Phenomenon that attracted considerable attention *Corruption*
- Expectations:
 - High levels of trust and honesty should lead to adherence to existing norms combined with *high trustworthiness* is related to *lower corruption*



- If perception of trustworthiness of others is expression of trust in close contacts instead of generalized others, people rather adhere to group obligations than universal norms → *low outward trust* is not related to *lower corruption*
- If people are willing to *trust unknown* people despite *doubts about the integrity* of others, they might still adhere to existing norms → connected to *lower corruption*

• Analysis:

- Cross-country OLS regressions across 48 countries
- Transparency International's Corruption Perception Index as DV
- Percentage of respondents in individual trust types as IVs
- HDI and average Freedom House/Polity measure as controls

Societal Relevance

(1)	(2)	(3)	(4)
	0.0424**		
	(0.0124)		
		0.0862***	
		(0.0236)	
			0.0261
			(0.0263)
			0.0786**
			(0.0257)
			0.0592***
			(0.0156)
7.551***	5.057**	4.925**	6.351***
(1.360)	(1.494)	(1.477)	(1.274)
0.203**	0.275**	0.271**	0.178*
(0.0700)	(0.0840)	(0.0828)	(0.0867)
-1.944*	-1.879*	-1.788*	-3.097**
(0.859)	(0.794)	(0.784)	(1.143)
48	48	48	48
0.558	0.636	0.643	0.717
32.82	30.60	32.23	41.67
	(1) 7.551*** (1.360) 0.203** (0.0700) -1.944* (0.859) 48 0.558 32.82	(1)(2)0.0424**(0.0124)(0.0124)	$\begin{array}{c c c c c c c c c c } & (2) & (3) \\ & 0.0424^{**} \\ & (0.0124) \\ & & 0.0862^{***} \\ & (0.0236) \\ & & & & & & & & & & & & & & & & & & $

Table shows ols regression results using Transparency International's corruption perceptions index from 2008 as dependent. Nonstandardized coefficients reported, robust standard errors in parentheses.

Significance Levels: *** p<0.001, ** p<0.01, * p<0.05

Societal Relevance

• Types of Trust and Corruption - Empirical Results



Graph shows OLS regression coefficients with 95% confidence intervals. All three models controll for HDI and an average Freedom House / Polity score.