QCA

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Sequence of the research

- Theory survey
- Conceptual work and study of the cases
- Data collection
- Data calibration
- Necessity analysis
- Truth table construction
- Boolean minimization

Standard analysis

- 1. Conceptual research the research question, population of interest, outcome of interest, conditions to analyze
- 2. Data matrix calibration of the measurements
- 3. Transformation of data matrix into truthtable
- 4. Testing for necessity
 - 1. Assessment of the outcome consistency and coverage
- 5. Testing for sufficiency
 - 1. Assessment of the outcome consistency and coverage
- 6. Repeating the process for non-outcome.

Truth table

- Truth table reflects data from the data matrix
- One row of truth table reresents combination of conditions that can appear
- 2^k (k = number of conditions)
- Not all of the conditions then appear in the reality = incomplete truth table – logical remainders
- If there is 1 in the outcome column that row expresses statement of sufficiency (under this combination of conditions the outcome of intererest happens)
- You take the truth table row and if it shows the outcome, than it is added to the logical minimization by Quine-McCluskey
- Fuzzy sets fuzzy sets (as crisp ones) establish qualitative difference between membership and nonmembership in the set – property space – still belong into only one truth table row, because they will always have the value below 0.5 or above 0.5 for that condition

Data matrix into the truth table

Table 4.1 Data matrix with ten cases, three conditions, and outcome

		Condi	Conditions				
Row	Cases	A	В	С	Y		
1	ARG	1	1	1	0		
2	PER	1	0	0	0		
3	BOL	1	1	0	0		
4	CHI	,O	1	0	1		
5	ECU	1	0	0	0		
6	BRZ	0	1	1	1		
7	URU	1	0	1	1		
8	PAR	0	0	1	1		
9	COL	0	0	0	1		
10	VEN	1	1	1	0		

Y = set of countries with stable democracies

A = set of countries with violent upheavals in the past

B = set of countries with ethnically homogeneous population

C = set of countries with pluralistic party system



Table 4.2 Hypothetical truth table with three conditions

·	Conditions			Outco			
Row	A B		С	Y	~Y	Cases	
1	0	0	. 0	1	0	COL	
2	0	0	1	1	0	PAR	
3	0	1	0	1	0	CHI	
4	0	1	1	1	0	BRZ	
5	1	0	0	0	1	PER, EC	
6	1	0	1	1	0	URU	
7	1	1	0	0	1	BOL	
8	1	1	1	0	1	AR, VEN	

See Table 3.2

~Y = set of countries with non-stable democracies

Cases	Conditions			Truth Table Row	Outcome
Cases	A	В	С	A~BC	Outcome
HU	0.8	0.6	0.2		0.4
RO	0.9	0.3	0.2		0.3
CZ BG	0.6	0.3	0.6		0.7
BG	0.8	0.9	0.1		0.3
SK	0.2	0.3	0.9		0.6

Fuzzy set truth table

Dealing with contradictory rows and logical remainders

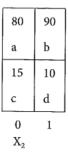
- Logical remainders those combinations that do not realize in the data
 - Either use no assumpitons on logical remainders bar them from logical minimization → conservative solution
 - Assign assumptions on logical remainders the program itslef decides what to do with the remainders (uses those that lead to more effective logical minimization) → parsimonious solution
 - Directional expectations → intermediate solution
- Contradictory row If the same combination of conditions shows both outcome and non-outcome
- Before logical minimization:
 - adding a condition
 - respecify the population of interest
 - respecify the definition, conceptualization, or measurement of the outcome or conditions

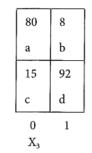
Sufficiency and its consistency

Table 5.1 Two-by-two tables – consistent and inconsistent sufficient conditions

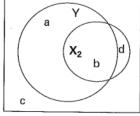
 $\begin{array}{c|cccc}
 & 80 & 100 \\
 & a & b \\
 & 15 & 0 \\
 & c & d \\
 & 0 & 1 \\
 & X_1 &
\end{array}$

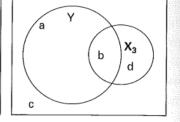
Outcome Y





a Y a X x





Venn diagrams – consistent and inconsistent sufficient conditions

Consistency of X as a sufficient condition for Y = number of cases where X=1 and Y=1/ number of cases where X=1

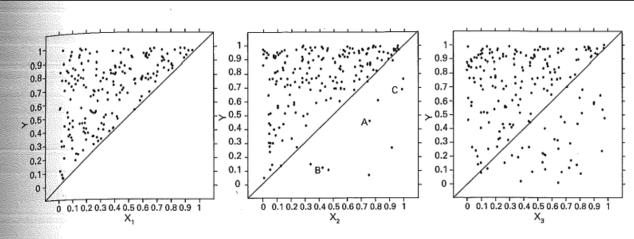
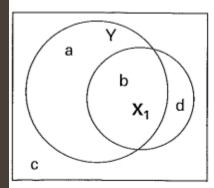
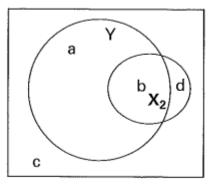
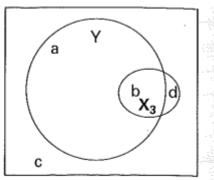


Figure 5.2 XY plot – consistent and inconsistent sufficient conditions

Sufficiency and its coverage







Venn diagrams – different levels of coverage sufficiency

Table 5.2 Two-by-two tables - different levels of coverage sufficiency

Outcome Y

10 200
a b
20 8
c d
0 1

0

90 120
a b
20 5
c d

186 24 a b 20 1 c d

Sufficiency and its coverage

• However, it is common in crisp-set analyses to assess the proportion of cases following each path—that is, the number of cases following a specific path to the outcome divided by the total number of instances of the outcome. The simple proportion is a direct measure of set-theoretic coverage and is a straightforward indicator of the empirical importance of a causal combination.

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Necessity and its coverage and parameters of fit

Conceptual work

- Research question: What factors motivate UN intervention.
 - causally complex phenomenon
 - outcome: the strength of international response ("STRONG")
 - conditions:
 - Extent of the crisis
 - Spillover effects
 - Countervailing power
 - Institutional involvement
 - Media attention

Data matrix

Table I. Fuzzy-set membership scores for 31 humanitarian crises 1991-2004

	Explanatory conditions				litions		Outcome
Cases	Years	(1) Extent	(2) Spillover effects	(3) Countervailing power	(4) Institutional involvement	(5) Media attention	Strength of UN response
Afghanistan	1991-2004	1	1	0.08	0.64	0.16	1
Angola 1	1991-1994	1	0.66	0.44	0.32	0.12	0.64
Angola 2	1998-2002	1	1	0.35	0.8	0.06	0.64
Azerbaijan (Karabakh)	1992-1994	0.68	0.59	1	0.16	0.09	0.16
Bosnia	1992-1995	1	1	0.38	0.8	1	1
Burundi	1993-2004	0.86	0.64	0.09	0.8	0.05	0.8
Colombia	1991-2004	1	1	1	0.16	0.11	0.16
Congo-Brazzaville	1997-1999	0.49	0	0	0.16	0	0.16
DR Congo	1996-2004	1	1	0.16	0.8	0.27	0.8
Georgia (Abkhazia)	1992-1994	0.13	0.13	1	1	0.06	0.32
Guinea-Bissau	1998-1999	0.1	0	0	1	0	0.16
India (Kashmir)	1991-2004	0.24	1	1	0.16	0.07	0
Iraq (Northern Iraq)	1991-1993	0.64	1	1	1	1	1
Liberia 1	1991-1995	1	1	0	1	0	0.64
Liberia 2	2000-2003	0.6	0.49	0	0.64	0.09	0.8
Mozambique	1991-1992	1	1	0.12	0.16	0	0.48
Myanmar	1991-2004	0.86	1	1	0.16	0	0.16
Nepal	1996-2004	0.06	0	1	0.16	0	0.16
Peru	1991-1997	0.64	1	1	0.16	0.07	0.16
Russia (Chechnya) 1	1994-1996	0.41	0	1	0.16	0.7	0.16
Russia (Chechnya) 2	1999-2004	0.86	0	1	0.16	0.37	0.16
Rwanda	1993-1994	1	1	0.06	0.8	0.22	1
Sierra Leone	1991-2002	0.82	1	0	1	0	1
Somalia	1991-1995	1	0.92	0	0.8	0.08	1
Sri Lanka	1991-2002	0.92	0.28	1	0.16	0.06	0.16
Sudan	1991-2004	1	0.72	1	0.32	0.07	0.32
Sudan (Darfur)	2003-2004	1	0.25	1	0.16	0.05	0.16
Tajikistan	1992-1997	0.32	0.3	1	1	0	0.32
Turkey	1991-2004	1	1	1	0.16	0	0
Uganda (Northern Uganda)	1994-2004	1	1	0.11	0.16	0	0.16
Yugoslavia (Kosovo)	1998-1999	0.1	1	1	1	0.87	0.64

Data matrix in RStudio

Afghanistan 1.00 1.00 0.08 0.64 0.16 1.00 Angola 1 1.00 0.66 0.44 0.32 0.12 0.64 Angola 2 1.00 1.00 0.35 0.80 0.06 0.64 Azerbaijan (Karabakh) 0.68 0.59 1.00 0.16 0.09 0.16 Bosnia 1.00 1.00 0.38 0.80 1.00 1.00 Burundi 0.86 0.64 0.09 0.80 0.05 0.80 Colombia 1.00 1.00 1.00 0.16 0.11 0.16 Congo-Brazzaville 0.49 0.00 0.00 0.16 0.00 0.16 DR Congo 1.00 1.00 0.16 0.80 0.27 0.80 Georgia (Abkhazia) 0.13 0.13 1.00 1.00 0.06 0.32 Guinea-Bissau 0.10 0.00 0.00 1.00 0.00 0.00 0.16 0.07 0.00		EXTENT \$ SF	PILLOVER \$ C	OUNTPOWER \$ IN	VOLV \$ A	TTENTION \$ ST	TRONG \$
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Bosnia 1.00 1.00 0.38 0.80 1.00 1.00 1.00	Angola	2 1.00	1.00	0.35	0.80	0.06	0.64
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Russia (Chechnya) 1 0.41 0.00 1.00 0.16 0.70 0.16 Russia (Chechnya) 2 0.86 0.00 1.00 0.16 0.37 0.16 Rwanda 1.00 1.00 0.06 0.80 0.22 1.00 Sierra Leone 0.82 1.00 0.00 1.00 0.00 1.00 Somalia 1.00 0.92 0.00 0.80 0.08 1.00 Sri Lanka 0.92 0.28 1.00 0.16 0.06 0.16	Nepa	al 0.06	0.00	1.00	0.16	0.00	0.16
Russia (Chechnya) 2 0.86 0.00 1.00 0.16 0.37 0.16 Rwanda 1.00 1.00 0.06 0.80 0.22 1.00 Sierra Leone 0.82 1.00 0.00 1.00 0.00 1.00 Somalia 1.00 0.92 0.00 0.80 0.08 1.00 Sri Lanka 0.92 0.28 1.00 0.16 0.06 0.16	Per	ru 0.64	1.00	1.00	0.16	0.07	0.16
Rwanda 1.00 1.00 0.06 0.80 0.22 1.00 Sierra Leone 0.82 1.00 0.00 1.00 0.00 1.00 Somalia 1.00 0.92 0.00 0.80 0.08 1.00 Sri Lanka 0.92 0.28 1.00 0.16 0.06 0.16	Russia (Chechnya)	0.41	0.00	1.00	0.16	0.70	0.16
Sierra Leone 0.82 1.00 0.00 1.00 0.00 1.00 Somalia 1.00 0.92 0.00 0.80 0.08 1.00 Sri Lanka 0.92 0.28 1.00 0.16 0.06 0.16	Russia (Chechnya)	2 0.86	0.00	1.00	0.16	0.37	0.16
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	Somali	ia 1.00	0.92	0.00	0.80	0.08	1.00
Sudan 1.00 0.72 1.00 0.32 0.07 0.32	Sri Lank	a 0.92	0.28	1.00	0.16	0.06	0.16
	Suda	n 1.00	0.72	1.00	0.32	0.07	0.32
Sudan (Darfur) 1.00 0.25 1.00 0.16 0.05 0.16	Sudan (Darfu	r) 1.00	0.25	1.00	0.16	0.05	0.16
Tajikistan 0.32 0.30 1.00 1.00 0.00 0.32	Tajikista	n 0.32	0.30	1.00	1.00	0.00	0.32
Turkey 1.00 1.00 1.00 0.16 0.00	Turke	y 1.00	1.00	1.00	0.16	0.00	0.00
Uganda (Northern Uganda) 1.00 1.00 0.11 0.16 0.00 0.16	Uganda (Northern Uganda	a) 1.00	1.00	0.11	0.16	0.00	0.16
Yugoslavia (Kosovo) 0.10 1.00 1.00 0.87 0.64	Yugoslavia (Kosovo	0.10	1.00	1.00	1.00	0.87	0.64

Showing 1 to 31 of 31 entries

Tru	ıth	ta	b	e

```
EXTENT SPILLOVER COUNTPOWER INVOLV ATTENTION OUT n incl PRI
19
                         0
                                           0
                                                 1 1 1.000 1.000
28
                                                    1 1.000 1.000
     0
                                                    0
                                                       1.000
      0
                                                    0
                                                       1.000
 8
      0
                                                    0
                                                       1.000
                                           0
                                                    0 1.000 1.000
10
                                                       1.000
                                                    0
11
                                                      1.000 1.000
12
                                                       1.000
                                                    0
18
              0
                                                    0 1.000 1.000
20
                                                       1.000 1.000
                                                    0
23
                                                    0
                                                       1.000
24
                                                       1.000
                                                    0
26
                                                      1.000 1.000
32
                                                       0.969 0.943
27
                                                       0.949 0.929
30
                                                    0
                                                       0.944 0.829
31
                                                       0.906 0.304
15
                                                       0.881 0.000
                                                    0
16
                                                       0.816 0.681
14
                                                    0
                                                       0.794 0.000
17
                                                       0.776 0.421
25
                                                    3 0.737 0.519
                                                       0.653 0.314
22
                                                    0
                                                       0.623 0.000
                                           0
                                                    2 0.611 0.000
                                                       0.538 0.000
 6
                                                       0.537 0.213
 3
                                           0
              0
                                           0
                                                       0.446 0.000
                                                    3 0.439 0.000
21
              0
                                           0
29
                                                    6 0.393 0.053
13
     0
                                 0
                                           0
                                                 0 1 0.360 0.000
```

OUT: outcome value

n: number of cases in configuration

incl: sufficiency inclusion score

```
Liberia 2
19
28
   Bosnia
4
9
10
11
12
18
20
23
24
26
   Iraq (Northern Iraq)
   Afghanistan, Angola 2, Burundi, DR Congo , Liberia, Rwanda, Sierra Leone, Somalia
31
15
16 Yugoslavia (Kosovo)
   Angola 1, Mozambique, Uganda (Northern Uganda)
   Congo-Brazzaville
    Georgia (Abkhazia), Tajikistan
   Russia (Chechnya) 1
   Guinea-Bissau
   Nepal
   Russia (Chechnya) 2, Sri Lanka, Sudan (Darfur)
29 Azerbaijan (Karabakh), Colombia, Myanmar, Peru, Sudan, Turkey
13 India (Kashmir)
```

cases

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