

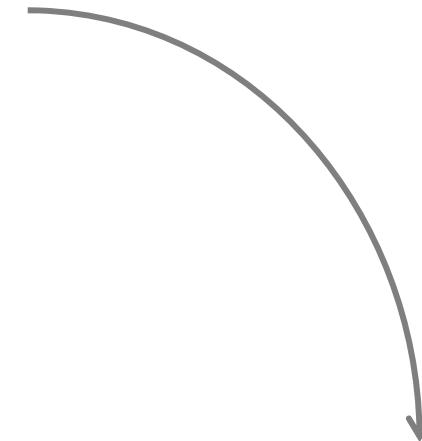
Hi-Level Logical Characteristics of Three Dyadic Relations - v1.1

Reflexivity <i>Involves one individual</i>	Symmetry <i>Involves two individuals</i>	Transitivity <i>Involves three (or more) individuals</i>
Reflexive A relation, R, is reflexive iff any individual that enters into the relation bears R to itself. *Identical with; Divisible by	Symmetric If any individual bears the relation to a second individual, then the second bears it to the first. *Touching	Transitive If any individual bears this relation to a second and the second bears it to a third, then the first bears it to the third. *Greater than; North of; Included in
Irreflexive A relation, R, is irreflexive iff no individual bears R to itself. *Stand next to; Father of	Asymmetric A relation, R, is asymmetrical iff, if any individual bears R to a second, then the second does not bear R to the first. *North of; Heavier than; Child of	Intransitive A relation, R, is intransitive iff, if any individual bears R to a second and the second bears R to a third, then the first does not bear R to the third. *Father of; 2" taller than
Nonreflexive A relation which is neither reflexive nor irreflexive is nonreflexive. *Respecting; Killing	Nonsymmetric A relation which is neither symmetrical nor asymmetrical is nonsymmetric. *Likes; Seeing	Nontransitive A relation which is neither transitive nor intransitive is nontransitive. *Admiring; Fearing

*Examples

Logical Characteristics: Three Dyadic Relations

Reflexive	Symmetric	Transitive
Irreflexive	Asymmetric	Intransitive
Nonreflexive	Nonsymmetric	Nontransitive



Matrix Icons

Reflex	Symm	Trans
Ireflex	Asymm	Itrans
Nreflex	Nsymm	Ntrans

Permutations of Relation Properties with Unique Identifiers and Matrix Icons – v1.6 (for Discovery Mode)								
RST-	Reflexive, [1,1,1]	1 1 1	RSI-	Reflexive, [1,1,2]	1 1 0	RSN-	Reflexive, [1,1,3]	1 1 0
#Objects=4	Symmetric, Transitive	0 0 0 0 0 0	#Objects=4	Symmetric, Intransitive	0 0 1 0 0 0	#Objects=4	Symmetric, Nontransitive	0 0 0 0 0 1
IST-	Irreflexive, [2,1,1]	0 1 1	ISI-	Irreflexive, [2,1,2]	0 1 0	ISN-	Irreflexive, [2,1,3]	0 1 0
#Objects=4	Symmetric, Transitive	1 0 0 0 0 0	#Objects=4	Symmetric, Intransitive	1 0 1 0 0 0	#Objects=4	Symmetric, Nontransitive	1 0 0 0 0 1
NST-	Nonreflexive, [3,1,1]	0 1 1	NSI-	Nonreflexive, [3,1,2]	0 1 0	NSN-	Nonreflexive, [3,1,3]	0 1 0
#Objects=4	Symmetric, Transitive	0 0 0 1 0 0	#Objects=4	Symmetric, Intransitive	0 0 1 1 0 0	#Objects=4	Symmetric, Nontransitive	0 0 0 1 0 1
RAT-	Reflexive, [1,2,1]	1 0 1	RAI-	Reflexive, [1,2,2]	1 0 0	RAN-	Reflexive, [1,2,3]	1 0 0
#Objects=4	Asymmetric, Transitive	0 1 0 0 0 0	#Objects=4	Asymmetric, Intransitive	0 1 1 0 0 0	#Objects=4	Asymmetric, Nontransitive	0 1 0 0 0 1
IAT-	Irreflexive, [2,2,1]	0 0 1	IAI-	Irreflexive, [2,2,2]	0 0 0	IAN-	Irreflexive, [2,2,3]	0 0 0
#Objects=4	Asymmetric, Transitive	1 1 0 0 0 0	#Objects=4	Asymmetric, Intransitive	1 1 1 0 0 0	#Objects=4	Asymmetric, Nontransitive	1 1 0 0 0 1
NAT-	Nonreflexive, [3,2,1]	0 0 1	NAI-	Nonreflexive, [3,2,2]	0 0 0	NAN-	Nonreflexive, [3,2,3]	0 0 0
#Objects=4	Asymmetric, Transitive	0 1 0 1 0 0	#Objects=4	Asymmetric, Intransitive	0 1 1 1 0 0	#Objects=4	Asymmetric, Nontransitive	0 1 0 1 0 1
RNT-	Reflexive, [1,3,1]	1 0 1	RNI-	Reflexive, [1,3,2]	1 0 0	RNN-	Reflexive, [1,3,3]	1 0 0
#Objects=4	Nonsymmetric, Transitive	0 0 0 0 1 0	#Objects=4	Nonsymmetric, Intransitive	0 0 1 0 1 0	#Objects=4	Nonsymmetric, Nontransitive	0 0 0 0 1 1
INT-	Irreflexive, [2,3,1]	0 0 1	INI-	Irreflexive, [2,3,2]	0 0 0	INN-	Irreflexive, [2,3,3]	0 0 0
#Objects=4	Nonsymmetric, Transitive	1 0 0 0 1 0	#Objects=4	Nonsymmetric, Intransitive	1 0 1 0 1 0	#Objects=4	Nonsymmetric, Nontransitive	1 0 0 0 1 1
NNT-	Nonreflexive, [3,3,1]	0 0 1	NNI-	Nonreflexive, [3,3,2]	0 0 0	NNN-	Nonreflexive, [3,3,3]	0 0 0
#Objects=4	Nonsymmetric, Transitive	0 0 0 1 1 0	#Objects=4	Nonsymmetric, Intransitive	0 0 1 1 1 0	#Objects=4	Nonsymmetric, Nontransitive	0 0 0 1 1 1

Permutations of Relation Properties with Unique Identifiers and Matrix Icons – v1.6 (for Design Mode)								
RST-	Reflexive, [1,1,1] #Objects=3	1 1 1 0 0 0 0 0 0	RSI-	Reflexive, [1,1,2] #Objects=3	1 1 0 0 0 1 0 0 0	RSN-	Reflexive, [1,1,3] #Objects=4	1 1 0 0 0 0 0 0 1
IST-	Irreflexive, [2,1,1] #Objects=3	0 1 1 1 0 0 0 0 0	ISI-	Irreflexive, [2,1,2] #Objects=3	0 1 0 1 0 1 0 0 0	ISN-	Irreflexive, [2,1,3] #Objects=4	0 1 0 1 0 0 0 0 1
NST-	Nonreflexive, [3,1,1] #Objects=3	0 1 1 0 0 0 1 0 0	NSI-	Nonreflexive, [3,1,2] #Objects=3	0 1 0 0 0 1 1 0 0	NSN-	Nonreflexive, [3,1,3] #Objects=4	0 1 0 0 0 0 1 0 1
RAT-	Reflexive, [1,2,1] #Objects=3	1 0 1 0 1 0 0 0 0	RAI-	Reflexive, [1,2,2] #Objects=3	1 0 0 0 1 1 0 0 0	RAN-	Reflexive, [1,2,3] #Objects=4	1 0 0 0 1 0 0 0 1
IAT-	Irreflexive, [2,2,1] #Objects=3	0 0 1 1 1 0 0 0 0	IAI-	Irreflexive, [2,2,2] #Objects=3	0 0 0 1 1 1 0 0 0	IAN-	Irreflexive, [2,2,3] #Objects=4	0 0 0 1 1 0 0 0 1
NAT-	Nonreflexive, [3,2,1] #Objects=3	0 0 1 0 1 0 1 0 0	NAI-	Nonreflexive, [3,2,2] #Objects=3	0 0 0 0 1 1 1 0 0	NAN-	Nonreflexive, [3,2,3] #Objects=4	0 0 0 0 1 0 1 0 1
RNT-	Reflexive, [1,3,1] #Objects=3	1 0 1 0 0 0 0 1 0	RNI-	Reflexive, [1,3,2] #Objects=3	1 0 0 0 0 1 0 1 0	RNN-	Reflexive, [1,3,3] #Objects=4	1 0 0 0 0 0 0 1 1
INT-	Irreflexive, [2,3,1] #Objects=3	0 0 1 1 0 0 0 1 0	INI-	Irreflexive, [2,3,2] #Objects=3	0 0 0 1 0 1 0 1 0	INN-	Irreflexive, [2,3,3] #Objects=4	0 0 0 1 0 0 0 1 1
NNT-	Nonreflexive, [3,3,1] #Objects=3	0 0 1 0 0 0 1 1 0	NNI-	Nonreflexive, [3,3,2] #Objects=3	0 0 0 0 0 1 1 1 0	NNN-	Nonreflexive, [3,3,3] #Objects=4	0 0 0 0 0 0 1 1 1