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## **Elemente einer qualitativen semiotischen Handlungstheorie**

Eine quantitative semiotische Handlungstheorie wurde in Toth (2008) vorgelegt. Zu Motivation, Hintergründen und Anwendungen vgl. man dieses Buch. Wie in Toth (2008), wird auch hier ausgegangen von der polykontexturalen Erweiterung der triadischen Peirceschen Zeichenrelation zur tetradischen präsemiotischen Zeichenrelation, in welche das Objekt des Zeichens als kategoriales Objekt eingebettet ist:

$$\text{PZR} = \{0.1, 0.2, 0.3, 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3\} = \\ \{\sqcap, \sqcup, \sqsubset, \Delta, \blacktriangle, \square, \blacksquare, \circ, \bullet\}$$

Für die nur in Realitätsthematiken aufscheinenden Primzeichen (1.0), (2.0), (3.0) stehen die qualitativen Zeichen  $\{\sqcap^*, \sqcup^*, \sqsubset^*\}$ . Als Interpretationsgrundlage des qualitativ-semiotischen Formalismus dieser Arbeit dient die folgende qualitative Matrix aus Bense (1979, S. 61):

Qualität	Quantität	Essenz
Abstraktion	Relation	Komprehension
Konnexion	Limitation	Komplettierung

Eine tetradische semiotische Zeichenrelation hat die folgenden Partialrelationen:

monadische Partialrelationen: (0.), (1.), (2.), (3.).

dyadische Partialrelationen:  $(\sqcap), (\sqcup), (\sqsubset), (\sqcap^*), (\sqcup^*), (\sqsubset^*), (\square), (\Delta), (\blacktriangle),$   
 $(\blacksquare), (\circ), (\bullet)$ .

triadische Partialrelationen: (0., 2., 1.), (0., 1., 2.), (1., 2., 0.), (1., 0., 2),

$(2., 1., 0.)$ ,  $(2., 0., 1.)$ ,  $(3., 2., 1.)$ ,  $(3., 1., 2.)$ ,  
 $(2., 3., 1.)$ ,  $(2., 1., 3.)$ ,  $(1., 3., 2.)$ ,  $(1., 2., 3.)$ ,  
 $(0., 3., 2.)$ ,  $(0., 2., 3.)$ ,  $(2., 3., 0.)$ ,  $(2., 0., 3.)$ ,  
 $(3., 2., 0.)$ ,  $(3., 0., 2.)$ ,  $(0., 3., 1.)$ ,  $(0., 1., 3.)$ ,  
 $(1., 3., 0.)$ ,  $(1., 0., 3.)$ ,  $(3., 1., 0.)$ ,  $(3., 0., 1.)$ .

tetradische Partialrelationen:

$(3., 2., 1., 0.)$ ,  $(2., 3., 1., 0.)$ ,  $(2., 1., 3., 0.)$ ,  
 $(1., 2., 3., 0.)$ ,  $(3., 1., 2., 0.)$ ,  $(1., 3., 2., 0.)$ ,  
 $(2., 3., 0., 1.)$ ,  $(3., 2., 0., 1.)$ ,  $(2., 1., 0., 3.)$ ,  
 $(1., 2., 0., 3.)$ ,  $(3., 1., 0., 2.)$ ,  $(1., 3., 0., 2.)$ ,  
 $(2., 0., 3., 1.)$ ,  $(3., 0., 2., 1.)$ ,  $(2., 0., 1., 3.)$ ,  
 $(1., 0., 2., 3.)$ ,  $(3., 0., 1., 2.)$ ,  $(1., 0., 3., 2.)$ ,  
 $(0., 2., 3., 1.)$ ,  $(0., 3., 2., 1.)$ ,  $(0., 1., 2., 3.)$ ,  
 $(0., 2., 1., 3.)$ ,  $(0., 3., 1., 2.)$ ,  $(0., 1., 3., 2.)$ .

Total ergeben sich damit  $15 \cdot 2 \cdot 67 = 2'010$  semiotische Handlungsschemata, die also wegen der Aufhebung der Diskontexturalität zwischen Zeichen und Objekt qua kategoriales Objekt innerhalb der präsemiotischen tetradischen Zeichenrelation polykontextural sind (vgl. Toth 2009).

In Toth (2008) wurde ebenfalls gezeigt, dass die präsemiotische tetradische Zeichenrelation insofern erkenntnistheoretisch, logisch und ontologisch vollständig ist, als wir die folgenden Entsprechungen zwischen logischen Relationen und semiotischen Kategorien haben:

subjektives Subjekt (sS)	$\equiv$	Drittheit (Interpretantenbezug, I)
objektives Objekt (oO)	$\equiv$	Zweitheit (Objektbezug, O)
subjektives Objekt (sO)	$\equiv$	Erstheit (Mittelbezug, M)
objektives Subjekt (oS)	$\equiv$	Nullheit (Qualität, Q)

Wir können deshalb die obigen 67 semiotisch-numerischen Partialrelationen auch in der folgenden semiotisch-logischen Form notieren:

Monadische semiotisch-logische Partialrelationen:

$(sO)$ ,  $(oS)$ ,  $(oO)$ ,  $(sS)$

Dyadische semiotisch-logische Partialrelationen:

$((sO), (oS)); ((sO), (oO)); ((sO), (sS)); ((oS), (sO)); ((oO), (sO)); ((sS), (sO));$   
 $((oS), (oS)); ((oS), (oO)); ((oS), (sS)); ((oO), (oS)); ((oO), (oO)); ((oO), (sS));$   
 $((sS), (oS)); ((sS), (oO)), ((sS), (sS))$

Triadische semiotisch-logische Partialrelationen:

$((sO), (oO), (oS)); ((sO), (oS), (oO)); ((oS), (oO), (sO)); ((oS), (sO), (oO));$   
 $((oO), (oS), (sO)); ((oO), (sO), (oS)); ((sS), (oO), (oS)); ((sS), (oS), (oO));$   
 $((oO), (sS), (oS)); ((oO), (oS), (sS)); ((oS), (sS), (oO)); ((oS), (oO), (sS));$   
 $((sO), (sS), (oO)); ((sO), (oO), (sS)); ((oO), (sS), (sO)); ((oO), (sO), (sS));$   
 $((sS), (oO), (sO)); ((sS), (sO), (oO)); ((sO), (sS), (oS)); ((sO), (oS), (sS));$   
 $((oS), (sS), (sO)); ((oS), (sO), (sS)); ((sS), (oS), (oS))$

Nun ist eine triadische Partialrelation einer tetradischen semiotischen Relation eine kombinatorische Auswahl aus den vier präsemiotischen Kategorien (0.), (1.), (2.), (3.) bzw. (sO), (oS), (oO), (sS). Dabei können also entweder (0., .1., .2.), (.1., .2., .3.), (0., .2., .3.) oder (0., .1., .3.) zu Triaden zusammenfasst werden.

Wir erhalten damit die folgenden  $2 \cdot 24 = 48$  Permutationen:

(0.d 2.b 1.c) ×	(c.1 b.2 d.0) →	$((sO), (oO), (oS))$	×	$((sO), (oO), (oS))$
(0.d 1.c 2.b) ×	(b.2 c.1 d.0) →	$((sO), (oS), (oO))$	×	$((oO), (sO), (oS))$
(1.c 2.b 0.d) ×	(d.0 b.2 c.1) →	$((oS), (oO), (sO))$	×	$((oS), (oO), (sO))$
(1.c 0.d 2.b) ×	(b.2 d.0 c.1) →	$((oS), (sO), (oO))$	×	$((oO), (oS), (sO))$
(2.b 1.c 0.d) ×	(d.0 c.1 b.2) →	$((oO), (oS), (sO))$	×	$((oS), (sO), (oO))$
(2.b 0.d 1.c) ×	(c.1 d.0 b.2) →	$((oO), (sO), (oS))$	×	$((sO), (oS), (oO))$
(3.a 2.b 1.c) ×	(c.1 b.2 a.3) →	$((sS), (oO), (oS))$	×	$((sO), (oO), (sS))$
(3.a 1.c 2.b) ×	(b.2 c.1 a.3) →	$((sS), (oS), (oO))$	×	$((oO), (sO), (sS))$
(2.b 3.a 1.c) ×	(c.1 a.3 b.2) →	$((oO), (sS), (oS))$	×	$((sO), (sS), (oO))$
(2.b 1.c 3.a) ×	(a.3 c.1 b.2) →	$((oO), (oS), (sS))$	×	$((sS), (sO), (oO))$
(1.c 3.a 2.b) ×	(b.2 a.3 c.1) →	$((oS), (sS), (oO))$	×	$((oO), (sS), (sO))$
(1.c 2.b 3.a) ×	(a.3 b.2 c.1) →	$((oS), (oO), (sS))$	×	$((sS), (oO), (sO))$
(0.d 3.a 2.b) ×	(b.2 a.3 d.0) →	$((sO), (sS), (oO))$	×	$((oO), (sS), (oS))$
(0.d 2.b 3.a) ×	(a.3 b.2 d.0) →	$((sO), (oO), (sS))$	×	$((sS), (oO), (oS))$
(2.b 3.a 0.d) ×	(d.0 a.3 b.2) →	$((oO), (sS), (sO))$	×	$((oS), (sS), (oO))$

(2.b 0.d 3.a) ×	(a.3 d.0 b.2) →	((oO), (sO), (sS))	×	((sS), (oS), (oO))
(3.a 2.b 0.d) ×	(d.0 b.2 a.3) →	((sS), (oO), (sO))	×	((oS), (oO), (sS))
(3.a 0.d 2.b) ×	(b.2 d.0 a.3) →	((sS), (sO), (oO))	×	((oO), (oS), (sS))
(0.d 3.a 1.c) ×	(c.1 a.3 d.0) →	((sO), (sS), (oS))	×	((sO), (sS), (oS))
(0.d 1.c 3.a) ×	(a.3 c.1 d.0) →	((sO), (oS), (sS))	×	((sS), (sO), (oS))
(1.c 3.a 0.d) ×	(d.0 a.3 c.1) →	((oS), (sS), (sO))	×	((oS), (sS), (sO))
(1.c 0.d 3.a) ×	(a.3 d.0 c.1) →	((oS), (sO), (sS))	×	((sS), (oS), (sO))
(3.a 1.c 0.d) ×	(d.0 c.1 a.3) →	((sS), (oS), (sO))	×	((oS), (sO), (sS))
(3.a 0.d 1.c) ×	(c.1 d.0 a.3) →	((sS), (sO), (oS))	×	((sO), (oS), (sS))

Tetradisch semiotisch-logische Partialrelationen:

$((sS), (oO), (oS), (sO)); ((oO), (sS), (oS), (sO)); ((oO), (oS), (sS), (sO));$   
 $((oS), (oO), (sS), (sO)); ((sS), (oS), (oO), (sO)); ((oS), (sS), (oO), (sO));$   
 $((oO), (sS), (sO), (oS)); ((sS), (oO), (sO), (oS)); ((oO), (oS), (sO), (sS));$   
 $((oS), (oO), (sO), (sS)); ((sS), (oS), (sO), (oO)); ((oS), (sS), (sO), (oO));$   
 $((oO), (sO), (sS), (oS)); ((sS), (sO), (oO), (oS)); ((oO), (sO), (oS), (sS));$   
 $((oS), (sO), (oO), (sS)); ((sS), (sO), (oS), (oO)); ((oS), (sO), (sS), (oO));$   
 $((sO), (oO), (sS), (oS)); ((sO), (sS), (oO), (oS)); ((sO), (oS), (oO), (sS));$   
 $((sO), (oO), (oS), (sS)); ((sO), (sS), (oS), (oO)); ((sO), (oS), (oS), (sO)).$

Vollständige Auflistung der  $2 \cdot 24 = 48$  tetradischen Permutationen:

(3.a 2.b 1.c 0.d) ×	(d.0 c.1 b.2 a.3) →	((sS), (oO), (oS), (sO))	×	((oS), (sO), (oO), (sS))
(2.b 3.a 1.c 0.d) ×	(d.0 c.1 a.3 b.2) →	((oO), (sS), (oS), (sO))	×	((oS), (sO), (sS), (oO))
(2.b 1.c 3.a 0.d) ×	(d.0 a.3 c.1 b.2) →	((oO), (oS), (sS), (sO))	×	((oS), (sS), (sO), (oO))
(1.c 2.b 3.a 0.d) ×	(d.0 a.3 b.2 c.1) →	((oS), (oO), (sS), (sO))	×	((oS), (sS), (oO), (sO))
(3.a 1.c 2.b 0.d) ×	(d.0 b.2 c.1 a.3) →	((sS), (oS), (oO), (sO))	×	((oS), (oO), (sO), (sS))
(1.c 3.a 2.b 0.d) ×	(d.0 b.2 a.3 c.1) →	((oS), (sS), (oO), (sO))	×	((oS), (oO), (sS), (sO))
(2.b 3.a 0.d 1.c) ×	(c.1 d.0 a.3 b.2) →	((oO), (sS), (sO), (oS))	×	((sO), (oS), (sS), (oO))
(3.a 2.b 0.d 1.c) ×	(c.1 d.0 b.2 a.3) →	((sS), (oO), (sO), (oS))	×	((sO), (oS), (oO), (sS))
(2.b 1.c 0.d 3.a) ×	(a.3 d.0 c.1 b.2) →	((oO), (oS), (sO), (sS))	×	((sS), (oS), (sO), (oO))
(1.c 2.b 0.d 3.a) ×	(a.3 d.0 b.2 c.1) →	((oS), (oO), (sO), (sS))	×	((sS), (oS), (oO), (sO))
(3.a 1.c 0.d 2.b) ×	(b.2 d.0 c.1 a.3) →	((sS), (oS), (sO), (oO))	×	((oO), (oS), (sO), (sS))
(1.c 3.a 0.d 2.b) ×	(b.2 d.0 a.3 c.1) →	((oS), (sS), (sO), (oO))	×	((oO), (oS), (sS), (sO))
(2.b 0.d 3.a 1.c) ×	(c.1 a.3 d.0 b.2) →	((oO), (sO), (sS), (oS))	×	((sO), (sS), (oS), (oO))
(3.a 0.d 2.b 1.c) ×	(c.1 b.2 d.0 a.3) →	((sS), (sO), (oO), (oS))	×	((sO), (oO), (oS), (sS))

(2.b 0.d 1.c 3.a)	$\times$	(a.3 c.1 d.0 b.2)	$\rightarrow ((oO), (sO), (oS), (sS))$	$\times$	((sS), (sO), (oS), (oO))
(1.c 0.d 2.b 3.a)	$\times$	(a.3 b.2 d.0 c.1)	$\rightarrow ((oS), (sO), (oO), (sS))$	$\times$	((sS), (oO), (oS), (sO))
(3.a 0.d 1.c 2.b)	$\times$	(b.2 c.1 d.0 a.3)	$\rightarrow ((sS), (sO), (oS), (oO))$	$\times$	((oO), (sO), (oS), (sS))
(1.c 0.d 3.a 2.b)	$\times$	(b.2 a.3 d.0 c.1)	$\rightarrow ((oS), (sO), (sS), (oO))$	$\times$	((oO), (sS), (oS), (sO))
(0.d 2.b 3.a 1.c)	$\times$	(c.1 a.3 b.2 d.0)	$\rightarrow ((sO), (oO), (sS), (oS))$	$\times$	((sO), (sS), (oO), (oS))
(0.d 3.a 2.b 1.c)	$\times$	(c.1 b.2 a.3 d.0)	$\rightarrow ((sO), (sS), (oO), (oS))$	$\times$	((sO), (oO), (sS), (oS))
(0.d 1.c 2.b 3.a)	$\times$	(a.3 b.2 c.1 d.0)	$\rightarrow ((sO), (oS), (oO), (sS))$	$\times$	((sS), (oO), (sO), (oS))
(0.d 2.b 1.c 3.a)	$\times$	(a.3 c.1 b.2 d.0)	$\rightarrow ((sO), (oO), (oS), (sS))$	$\times$	((sS), (sO), (oO), (oS))
(0.d 3.a 1.c 2.b)	$\times$	(b.2 c.1 a.3 d.0)	$\rightarrow ((sO), (sS), (oS), (oO))$	$\times$	((oO), (sO), (sS), (oS))
(0.d 1.c 3.a 2.b)	$\times$	(b.2 a.3 c.1 d.0)	$\rightarrow ((sO), (oS), (sS), (oO))$	$\times$	((oO), (sS), (sO), (oS))

Wir erhalten demnach ein Grobraster semiotischer Handlungstypen nach dem “Output” der Handlungen:

1. Qualitativ-pragmatisches Handeln ( $Q = (sO)$ )
2. Mediales Handeln ( $M = (oS)$ )
3. Objektales Handeln ( $O = (oO)$ )
4. Interpretatives Handeln ( $I = (sS)$ )

Diese Klassifikation nach dem Output von Handlungen trägt also der Tatsache Rechnung, dass “Handlungen (...) untrennbar mit ihrem Produkt, ihren Resultaten, verknüpft” sind (Kummer 1975, S. 17).

Da die Handlungsschemata der **4 monadischen semiotischen Partialrelationen**

$(sO), (oS), (oO), (sS)$

sowie der **15 dyadischen semiotischen Partialrelationen**

$$\begin{array}{llll}
 (sO) \leftrightarrow (oS) & (sS) \leftrightarrow (sO) & (oO) \leftrightarrow (oO) \\
 (sO) \leftrightarrow (oO) & (oS) \leftrightarrow (oS) & (oO) \leftrightarrow (sS) \\
 (sO) \leftrightarrow (sS) & (oS) \leftrightarrow (oO) & (sS) \leftrightarrow (oS) \\
 (oS) \leftrightarrow (sO) & (oS) \leftrightarrow (sS) & (sS) \leftrightarrow (oO) \\
 (oO) \leftrightarrow (sO) & (oO) \leftrightarrow (oS) & (sS) \leftrightarrow (sS)
 \end{array}$$

trivial sind, beschränken wir uns hier auf den Aufweis der 24 triadischen und der 24 tetradiischen semiotischen Partialrelationen für alle 15 präsemotischen Zeichenklassen und ihre dualen Realitätsthematiken.

**I. Handlungsschemata der  $2 \cdot 24$  triadischen semiotischen Partialrelationen**

1. Präsemiotisches Dualsystem  $(\circ \square \sqsubset \sqcap) \times (\sqcap^* \sqsubset \blacktriangle \blacktriangleright)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{...} \gg (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{...} \gg (\sqcap^*) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\circ) \\ \text{...} \gg (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{...} \gg (\sqcap^*) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\sqsubset) \\ \text{...} \gg (\sqcap) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{...} \gg (\sqcap^*) \\ (\sqsubset) \end{array} \right) \\ \\ \left( \begin{array}{c} (\circ) \\ \text{...} \gg (\sqcap) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{...} \gg (\sqcap^*) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\sqsubset) \\ \text{...} \gg (\sqcap) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{...} \gg (\sqcap^*) \\ (\sqsubset) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \\ \text{...} \gg (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ \text{...} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\circ) \\ \text{...} \gg (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ \text{...} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \end{array} \right\}$$

Input:  $M = oS$

Input:  $O = oO$

Input:  $I = sS$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{...} \gg (\sqsubset) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ \text{...} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\circ) \\ \text{...} \gg (\sqsubset) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ \text{...} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \end{array} \right\}$$

Input:  $Q = sO$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right\} \quad \text{Input: I = sS}$$
  

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right\} \quad \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right\} \quad \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right\} \quad \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \text{Input: O = oO}$$

## 2. Präsemiotisches Dualsystem $(\circ \square \sqsubset \sqcup) \times (\sqcup^* \sqsubset \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{人} \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\sqcup) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{人} \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\sqsubset) \\ \text{人} \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\sqcup^*) \\ (\sqsubset) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\sqsubset) \\ \text{人} \gg (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\sqcup^*) \\ (\sqsubset) \end{array} \right) \\ \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\sqsubset) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \left. \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\sqcup^*) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\sqcup) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

Input: Q = sO

Input: M = oS

Input: O = oO

### 3. Präsemiotisches Dualsystem $(\circ \square \sqsubset \sqcap) \times (\sqsubset^* \sqsubset \blacktriangle \blacktriangleright)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{A} \gg (\sqsubset^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

Input:  $M = oS$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\square) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset) \\ \text{A} \gg (\sqsubset^*) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\sqsubset) \\ \text{A} \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\sqsubset^*) \\ (\sqsubset) \end{array} \right)$$

Input:  $O = oO$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\sqsubset^*) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\sqsubset) \\ \text{A} \gg (\sqsubset) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\sqsubset^*) \\ (\sqsubset) \end{array} \right)$$

Input:  $I = sS$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\sqsubset) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\sqsubset^*) \\ (\blacktriangle) \end{array} \right)$$

Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\sqsubset) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \\ \text{A} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

Input:  $Q = sO$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\sqsubset) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \\ \text{A} \gg (\sqsubset) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square) \end{array} \right)$$

Input: O = oO

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

4. Präsemiotisches Dualsystem ( $\circ \square \Delta \sqcup$ )  $\times$  ( $\sqcup^* \square \Delta \blacktriangle$ )

## Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \\ \sqcap \gg (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \sqcap \gg (\sqcup^*) \\ (\Delta) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\circ) \\ \wedge \gg (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \wedge \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \quad \text{Input: } M = oS$$

$$\left( \begin{array}{c} (\Delta) \\ \sqcap \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \sqcap \gg (\sqcup^*) \\ (\square) \end{array} \right) \quad \left\{ \right.$$

$$\left( \begin{array}{c} (\circ) \\ \wedge \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \wedge \gg (\sqcup^*) \\ (\blacktriangle) \end{array} \right) \quad \text{Input: } O = oO$$

$$\left( \begin{array}{c} (\Delta) \\ \wedge \gg (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \wedge \gg (\sqcup^*) \\ (\square) \end{array} \right) = \left\{ \right.$$

$$\left( \begin{array}{c} (\square) \\ \wedge \gg (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \wedge \gg (\sqcup^*) \\ (\Delta) \end{array} \right) \quad \text{Input: } I = sS$$

## Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\square) \\ \sqcap \gg (\Delta) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \sqcap \gg (\square) \\ (\Delta) \end{array} \right) \quad \left\{ \right.$$

$$\left( \begin{array}{c} (\circ) \\ \wedge \gg (\Delta) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \wedge \gg (\square) \\ (\Delta) \end{array} \right) \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\sqcup^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right\} \quad \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right) \quad \left. \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{c} (\sqcup^*) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right\} \quad \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circlearrowleft) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\sqcup^*) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right\} \quad \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{A} \gg (\circlearrowleft) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right\} \quad \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right) \quad \left. \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\sqcup^*) \end{array} \right\}$$

## 5. Präsemiotisches Dualsystem $(\circlearrowleft \square \blacktriangle \square) \times (\square^* \square \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\begin{array}{c}
 \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\} \text{Input: } M = oS \\
 \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\} \\
 \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Input: } O = oO \\
 \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\} \\
 \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Input: } I = sS \\
 \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}
 \end{array}$$

Mediales Handeln ( $M = oS$ )

$$\begin{array}{c}
 \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\} \text{Input: } Q = sO \\
 \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}
 \end{array}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\}$$

## 6. Präsemiotisches Dualsystem $(\circlearrowleft \square \blacktriangle \square) \times (\square^* \circlearrowright \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\} \text{Input: } M = oS$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \quad \left. \quad \right\} \text{Input: } O = oO$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \quad \left. \quad \right\} \text{Input: } I = sS$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (O) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\} \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (O) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\circlearrowleft) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: O = oO

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\circlearrowleft) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: I = sS

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \right\}$$

Input: Q = sO

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: M = oS

$$\left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\square) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right)$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right)$$

Input: O = oO

## 7. Präsemiotisches Dualsystem $(\circ \blacksquare \blacktriangle \lrcorner) \times (\lrcorner^* \square \blacksquare \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\lrcorner) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\lrcorner^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\lrcorner) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\lrcorner^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\lrcorner) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\lrcorner^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\lrcorner) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\lrcorner^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\lrcorner) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\lrcorner^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\lrcorner) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\lrcorner^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\lrcorner) \end{array} \right) \times \left( \begin{array}{c} (\lrcorner^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacktriangle) \\ (\lrcorner) \end{array} \right) \times \left( \begin{array}{c} (\lrcorner^*) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \right\}$$

Input: O = oO

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right)$$

Input: I = sS

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right)$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\blacksquare) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\sqcup^*) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\Box) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Box) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\Box^*) \end{array} \right) \quad \right\} \text{Input: I = sS}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box^*) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box^*) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box^*) \end{array} \right) \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Box) \\ \text{A} \gg (O) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\Box^*) \end{array} \right) \quad \right\} \text{Input: O = oO}$$

## 8. Präsemiotisches Dualsystem $(\circ \blacksquare \blacktriangle \square) \times (\square^* \blacksquare \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\Delta) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\Delta) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \left. \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\Delta) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\Delta) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\square) \end{array} \right) \quad \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\square) \end{array} \right) \\
 \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Box) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\square^*) \end{array} \right) \quad \left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\Box) \\ (\square^*) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\Box) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right) \quad \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right)$$

$$\left( \begin{array}{c} (\Box) \\ \text{A} \gg (\circlearrowleft) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\Box) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{A} \gg (\Delta) \\ (\square^*) \end{array} \right)$$

$$\left( \begin{array}{c} (\Delta) \\ \text{A} \gg (\circlearrowleft) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\square) \end{array} \right)$$

Input: O = oO

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\Box) \end{array} \right) \times \left( \begin{array}{c} (\Box) \\ \text{A} \gg (\Delta) \\ (\square^*) \end{array} \right)$$

9. Präsemiotisches Dualsystem  $(\circ \blacksquare \blacktriangle \square) \times (\square^* \circ \blacksquare \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Input:  $M = oS$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right)$$

Input:  $O = oO$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right)$$

Input:  $I = sS$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right)$$

Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Input:  $Q = sO$

$$\left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circ) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circ) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right\} \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\}$$

10. Präsemiotisches Dualsystem  $(\circ \blacksquare \blacktriangle \square) \times (\square^* \circ \bullet \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

Input:  $M = oS$

  

$$\left. \begin{array}{c} (\circ) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacktriangle) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

Input:  $O = oO$

  

$$\left. \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

Input:  $I = sS$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\blacktriangle) \end{array} \right) \end{array} \right\}$$

Input:  $Q = sO$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: O = oO

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: I = sS

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circ) \\ (\bullet) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left. \right\}$$

Input: Q = sO

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: M = oS

$$\left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right\} \quad \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\circlearrowleft) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right\} \quad \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \quad \left. \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right\} \quad \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\circlearrowleft) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\circlearrowleft) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right) \quad \left. \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacktriangle) \\ (\circlearrowleft) \end{array} \right\} \quad \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\circlearrowleft) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacktriangle) \\ (\square^*) \end{array} \right\}$$

## 11. Präsemiotisches Dualsystem $(\bullet \square \Delta \sqcup) \times (\sqcup^* \square \blacksquare \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\sqcup) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\sqcup^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqcup) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\sqcup^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\Delta) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\Delta) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (2\bullet) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\Delta) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \right\} \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\sqcup^*) \end{array} \right) \quad \right\} \text{Input: I = sS}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\bullet) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\bullet) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\sqcup^*) \end{array} \right) \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\sqcup) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacksquare) \\ (\sqcup^*) \end{array} \right) \quad \right\} \text{Input: O = oO}$$

12. Präsemiotisches Dualsystem  $(\bullet \square \Delta \sqsubset) \times (\sqsubset^* \square \blacksquare \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\sqsubset) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset^*) \\ (\blacksquare) \end{array} \right) \\ \\ \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\sqsubset^*) \\ (\blacksquare) \end{array} \right) \\ \\ \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\sqsubset) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\sqsubset^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\sqsubset) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\sqsubset^*) \\ (\square) \end{array} \right) \end{array} \right\} \text{Input: } M = oS$$

$$\left. \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right\} \text{Input: } O = oO$$

$$\left. \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right\} \text{Input: } I = sS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\Delta) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\Delta) \\ (\sqsubset) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

Input: O = oO

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right)$$

Input: I = sS

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right)$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right)$$

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square^*) \end{array} \right) \quad \right\} \text{Input: I = sS}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\Delta) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \quad \left( \begin{array}{c} (\square) \\ \text{人} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \right\} \text{Input: O = oO}$$

### 13. Präsemiotisches Dualsystem $(\bullet \square \blacktriangle \square) \times (\square^* \circ \square \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\circ) \end{array} \right) \\ \left( \begin{array}{c} (\square) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\square) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\square) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circ) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \text{Input: I = sS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right\} \quad \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\blacksquare) \end{array} \right\} \quad \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right\} \quad \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right\}$$

14. Präsemiotisches Dualsystem  $(\bullet \blacksquare \blacktriangle \square) \times (\square^* \circ \circlearrowleft \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \\ \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

Input:  $M = oS$

Input:  $O = oO$

Input:  $I = sS$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circlearrowleft) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circlearrowleft) \\ (\blacksquare) \end{array} \right) \end{array} \right\}$$

Input:  $Q = sO$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\circ) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\circ) \\ (\bullet) \end{array} \right) \quad \left. \right\} \text{Input: I = sS}$$

Objektales Handeln (O = oO)

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{人} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \quad \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacksquare) \\ (\circ) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacksquare) \\ (\square^*) \end{array} \right)$$

Input: O = oO

15. Präsemiotisches Dualsystem  $(\bullet \blacksquare \blacktriangle \square) \times (\square^* \circ \circlearrowleft \bullet)$

Qualitatives Handeln ( $Q = sO$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \\ \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\} \quad \text{Input: } M = oS$$

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\circlearrowleft) \\ \text{人} \gg (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\} \quad \text{Input: } O = oO$$

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacktriangle) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\circlearrowleft) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \quad \text{Input: } I = sS$$

Mediales Handeln ( $M = oS$ )

$$\left. \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circlearrowleft) \\ (\bullet) \end{array} \right) \\ \left( \begin{array}{c} (\bullet) \\ \text{人} \gg (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{人} \gg (\circlearrowleft) \\ (\bullet) \end{array} \right) \end{array} \right\} \quad \text{Input: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: O = oO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\bullet) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\square^*) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\circ) \\ (\bullet) \end{array} \right) \quad \left. \right\} \text{Input: I = sS}$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left. \right\} \text{Input: Q = sO}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\bullet) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Input: M = oS}$$

$$\left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\bullet) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

Input: I = sS

Interpretatives Handeln (I = sS)

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\bullet) \end{array} \right) \quad \left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right)$$

Input: Q = sO

$$\left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\bullet) \end{array} \right) \quad \left( \begin{array}{c} (\blacksquare) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

Input: M = oS

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

$$\left( \begin{array}{c} (\blacktriangle) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\bullet) \\ (\circ) \end{array} \right) \quad \left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

Input: O = oO

$$\left( \begin{array}{c} (\square) \\ \text{A} \gg (\bullet) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ \text{A} \gg (\bullet) \\ (\square^*) \end{array} \right)$$

## II. Handlungsschemata der $2 \cdot 24$ tetradischen semiotischen Partialrelationen

1. Präsemiotisches Dualsystem  $(\circlearrowleft \square \sqsubset \sqcap) \times (\sqcap^* \sqsubset \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circlearrowleft) \\ (\circlearrowleft) \\ (\circlearrowleft) \end{array} \succ \begin{array}{c} (\sqcap) \\ (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ (\sqcap^*) \\ (\sqcap^*) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\sqsubset) \\ (\sqsubset) \\ (\sqsubset) \end{array} \right) \quad \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\sqcap) \\ (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ (\sqcap^*) \\ (\sqcap^*) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\sqsubset) \\ (\sqsubset) \\ (\sqsubset) \end{array} \right) \quad \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circlearrowleft) \\ (\circlearrowleft) \\ (\circlearrowleft) \end{array} \succ \begin{array}{c} (\sqcap) \\ (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ (\sqcap^*) \\ (\sqcap^*) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \\ (\blacktriangle) \end{array} \right) \quad \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\sqcap) \\ (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ (\sqcap^*) \\ (\sqcap^*) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \right) \quad \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circlearrowleft) \\ (\circlearrowleft) \\ (\circlearrowleft) \end{array} \succ \begin{array}{c} (\sqcap) \\ (\sqcap) \\ (\sqcap) \end{array} \right) \times \left( \begin{array}{c} (\sqcap^*) \\ (\sqcap^*) \\ (\sqcap^*) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \right) \quad \text{Regulativ: } I = sS$$

Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (O) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \gg (\square) \\ (\square) \gg \gamma \succ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\Delta) \\ (\square^*) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (O) \gg (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right)$$

$$\left( \begin{array}{c} (O) \gg (\square) \\ (O) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\Delta) \\ (\square^*) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (O) \gg (\square) \\ (O) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right)$$

Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (O) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \gg \gamma \succ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \\ \\ \left( \begin{array}{c} (O) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \\ \\ \left( \begin{array}{c} (O) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

Interpretatives Handeln ( $I = sS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (O) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (O) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \quad \right\}$$

2. Präsemiotisches Dualsystem  $(\circ \square \square \sqcup) \times (\sqcup^* \square \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \right\}$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\square) \\ (\Delta) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\square) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (O) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (O) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right)$$

Mediales Handeln (M = oS)

$$\left( \begin{array}{c} (\sqcup) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\sqcup^*) \\ (\Delta) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\sqcup) \gg \gamma \succ (\square) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\sqcup^*) \\ (\Delta) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (O) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\Delta) \\ (\sqcup^*) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\sqcup) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcap) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (O) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square^*) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (O) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square^*) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (O) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\square^*) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (O) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \right\}$$

Interpretatives Handeln ( $I = sS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (O) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & \\ (\blacktriangle) & \gg & \gamma \succ (\sqcup^*) \\ & (\blacktriangle) & \end{array} \right) \\ \text{Regulativ: } Q = sO \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (O) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & \\ (\blacktriangle) & \gg & \gamma \succ (\sqcup^*) \\ & (\square) & \end{array} \right) \\ \text{Regulativ: } M = oS \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\square) & \gg & \gamma \succ (O) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\square^*) & \end{array} \right) \\ \text{Regulativ: } M = oS \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\square) & \gg & \gamma \succ (O) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\square^*) & & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\blacktriangle) & \end{array} \right) \\ \text{Regulativ: } O = oO \end{array} \right\}$$

$$\begin{array}{ccccc} & (\sqcup) & & (\square) & \\ (\square) & \gg & \gamma \succ (O) & \times & (\blacktriangle) \gg \gamma \succ (\blacktriangle) \\ & (\square) & & & (\square^*) \\ & & & & \text{Regulativ: } O = oO \end{array}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\square) & \gg & \gamma \succ (O) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\square^*) & & \\ (\blacktriangle) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

### 3. Präsemiotisches Dualsystem $(\circ \square \sqsubset \sqcap) \times (\sqsubset^* \sqsubset \blacktriangle \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\square) \gg (\circ) \\ (\square) \quad \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \gg (\blacktriangle) \\ (\sqsubset^*) \quad \succ (\sqsubset) \\ (\sqsubset^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\square) \gg (\square) \\ (\square) \quad \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \gg (\blacktriangle) \\ (\sqsubset^*) \quad \succ (\sqsubset) \\ (\sqsubset^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \gg (\circ) \\ (\square) \quad \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \gg (\square) \\ (\sqsubset^*) \quad \succ (\blacktriangle) \\ (\sqsubset^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \gg (\square) \\ (\square) \quad \succ (\sqsubset) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \gg (\blacktriangle) \\ (\sqsubset^*) \quad \succ (\blacktriangle) \\ (\sqsubset^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\circ) \gg (\square) \\ (\circ) \quad \succ (\sqsubset) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\sqsubset^*) \gg (\blacktriangle) \\ (\sqsubset^*) \quad \succ (\square) \\ (\sqsubset^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

## Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{ccc} (\square) & \gg & (\circlearrowleft) \\ & \vee & \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & \gg & (\blacktriangle) \\ & \vee & \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ Q = s\circlearrowleft \end{array} \right\}$$

$$\left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \succ \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\square) & \gg & \succ \\ & (\blacktriangle) & \end{array} \right)$$

$$\left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \succ (\square) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\square) & \gg & \succ (\blacktriangle) \\ & (\square^*) & \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } \Omega^- \circ \Omega$$

$$\left( \begin{array}{c} (\square) \quad \gg \quad (\circ) \\ & \succ \quad (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \quad \gg \quad (\square^*) \\ & \succ \quad (\Delta) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{ccc} (\circ) & \gg & (\square) \\ & \gamma & \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & \gg & (\Delta) \\ (\square) & \gamma & \succ (\Delta) \\ & (\square^*) & \end{array} \right) \quad \left. \begin{array}{c} \text{Regulativ:} \\ \text{I} = \text{S} \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \gg \forall \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \gg \forall \succ (\blacktriangle) \\ (\blacktriangle) \end{array} \right)$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{ccc} & (\circ) & \\ (\square) & \gg & \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square) & \\ (\Delta) & \gg & \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \gg (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \gg (\blacktriangle) \\ (\square) \end{array} \right)$$

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\square) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\circ) & \\ (\square) & \gg & \gamma \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\circ) & \gg & \gamma \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square) & \\ (\blacktriangle) & \gg & \gamma \succ (\blacktriangle) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\circ) & \gg & \gamma \succ (\square) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (\blacktriangle) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
M = oS

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\circ) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square) & \\ (\blacktriangle) & \gg & \gamma \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\circ) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\blacktriangle) & \gg & \gamma \succ (\square^*) \\ & (\square) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\circ) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\circ) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\blacktriangle) & \gg & \gamma \succ (\square) \\ & (\square^*) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
Q = sO

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

#### 4. Präsemiotisches Dualsystem $(\circ \square \Delta \sqcup) \times (\sqcup^* \square \Delta \Delta)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\sqcup) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\sqcup^*) \gg \gamma \succ (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

### Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (\Delta) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\sqcup^*) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (\Delta) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\sqcup^*) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\sqcup^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & \\ (\circ) & \gg & \gamma \succ (\Delta) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & \\ (\circ) & \gg & \gamma \succ (\Delta) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\sqcup^*) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\circ) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\sqcup^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\circ) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\square) & \gg & \gamma \succ (\Delta) \\ & (\Delta) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

Regulativ:  
 $O = oO$

Regulativ:  
 $I = sS$

### Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (\square) \\ & (\Delta) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & \\ (\Delta) & \gg & \gamma \succ (\sqcup^*) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & \\ (\sqcup) & \gg & \gamma \succ (\square) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} (\Delta) & & \\ (\Delta) & \gg & \gamma \succ (\sqcup^*) \\ & (\square) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \text{Regulativ: } M = oS \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \quad \left. \quad \text{Regulativ: } M = oS \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right) \quad \left. \quad \text{Regulativ: } I = sS \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \quad \left. \quad \text{Regulativ: } I = sS \right\}$$

Interpretatives Handeln ( $I = sS$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right) \quad \left. \quad \text{Regulativ: } Q = sO \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right) \quad \left. \quad \text{Regulativ: } Q = sO \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \quad \left. \quad \text{Regulativ: } M = oS \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \quad \left. \quad \text{Regulativ: } M = oS \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\sqcup) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\sqcup^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\sqcup) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\square) \end{array} \gg \begin{array}{c} (\sqcup^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

### 5. Präsemiotisches Dualsystem $(\circ \square \Delta \sqcup) \times (\sqcup^* \square \Delta \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\Delta) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\Delta) \\ (\circ) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\Delta) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

### Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ (\square) \end{array} \succ \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ (\square) \end{array} \succ \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\circ) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \succ \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\circ) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\Delta) \\ (\square^*) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ (\square) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right)$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\Delta) \\ (\square^*) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \succ \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right)$$

### Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ (\Delta) \end{array} \succ \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ (\square) \end{array} \succ \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \succ \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ (\square) \end{array} \succ \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \right)$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \\ \\ \left( \begin{array}{c} (\circ) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\Delta) \\ (\square^*) \end{array} \right) \\ \\ \left( \begin{array}{c} (\Delta) \\ (\circ) \gg \gamma \succ (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \end{array} \right\}$$

Regulativ:  
M = oS

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\Delta) \end{array} \right) \\ \\ \left( \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right) \\ \\ \left( \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \\ \\ \left( \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right) \end{array} \right\}$$

Regulativ:  
Q = sO

Regulativ:  
I = sS

Regulativ:  
M = oS

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square^*) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

### 6. Präsemiotisches Dualsystem $(\circ \square \Delta \square) \times (\square^* \circ \Delta \Delta)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\Delta) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\Delta) \\ (\circ) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\circ) \\ (\Delta) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\circ) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\circ) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ I = ss \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\circ) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\Delta) \end{array} \right) \quad \left. \quad \begin{array}{l} \text{Regulativ:} \\ I = ss \end{array} \right\}$$

### Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (O) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\Delta) & \\ (O) & \gg & \gamma \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\Delta) & \\ (O) & \gg & \gamma \succ (\square^*) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\Delta) & \\ (O) & \gg & \gamma \succ (\Delta) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (O) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (O) & \gg & \gamma \succ (\Delta) \\ & (\Delta) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\Delta) & \\ (O) & \gg & \gamma \succ (\Delta) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (O) & \gg & \gamma \succ (\Delta) \\ & (\Delta) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

### Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (O) & \\ (\square) & \gg & \gamma \succ (\square) \\ & (\blacktriangle) & \end{array} \right) \times \left( \begin{array}{ccc} & (O) & \\ (\Delta) & \gg & \gamma \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\square) & \gg & \gamma \succ (\square) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\Delta) & \\ (\Delta) & \gg & \gamma \succ (\square^*) \\ & (O) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\circlearrowleft) \\ (\circlearrowright) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \gg \gamma \succ (\circlearrowleft) \\ (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowright) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\circlearrowleft) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowright) \\ (\blacktriangle) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\square) \\ (\circlearrowleft) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circlearrowright) \\ (\blacktriangle) \gg \gamma \succ (\blacktriangle) \\ (oS) \\ (oO) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\circlearrowright) \\ (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\blacktriangle) \\ (\circlearrowleft) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circlearrowleft) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circlearrowright) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\blacktriangle) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circlearrowright) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\circlearrowleft) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowleft) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowright) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowright) \\ (\square) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\circlearrowleft) \\ (\blacktriangle) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square^*) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ \circ = o\circ \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square^*) \\ (\circ) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \end{array} \right\}$$

7. Präsemiotisches Dualsystem  $(\circ \square \Delta \sqcup) \times (\sqcup^* \square \Delta \Delta)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ (\circ) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \\ \end{array} \right\}$$

## Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{ccc} (\sqcup) & \gg & (\circlearrowleft) \\ & \succ & \succ \\ (\square) & & (\Delta) \end{array} \right) \times \left( \begin{array}{ccc} (\square) & \gg & (\blacksquare) \\ & \succ & \succ \\ (\blacktriangle) & & (\sqcup^*) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left( \begin{array}{ccc} & (\Box) & \\ (\sqcup) & \gg & \curlyvee & \succ & (\Delta) \\ & (\circ) & & & \end{array} \right) \times \left( \begin{array}{ccccc} & & (\blacktriangle) & & \\ (\Box) & \gg & \curlyvee & \succ & (\sqcup^*) \\ & & (\Box) & & \end{array} \right)$$

$$\left( \begin{array}{c} (\Box) \gg (\sqcup) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\square) \gg (\blacktriangle) \\ (\sqcup^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } \Omega^- \circ \Omega$$

$$\left( \begin{array}{ccc} & (\circ) & \\ (\blacksquare) & \gg & \curlyvee & \succ & (\blacktriangle) \\ & (\sqcup) & \end{array} \right) \times \left( \begin{array}{ccc} & (\sqcup^*) & \\ (\square) & \gg & \curlyvee & \succ & (\blacksquare) \\ & (\blacktriangle) & \end{array} \right)$$

$$\left( \begin{array}{ccc} (\circ) & \gg & (\sqcup) \\ & & \succ (\Delta) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & \gg & (\blacksquare) \\ & & \succ (\blacktriangle) \\ & (\sqcup^*) & \end{array} \right) \quad \left\{ \begin{array}{l} \text{Regulativ:} \\ \mathbb{I} = \mathbb{S} \end{array} \right.$$

$$\left( \begin{array}{c} (\circ) \gg (\blacksquare) \\ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \gg (\sqcup^*) \\ (\blacksquare) \end{array} \right)$$

Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\square) \\ (\triangle) \end{array} \gg \begin{array}{c} (\circlearrowleft) \\ (\triangleright) \end{array} > \begin{array}{c} (\square) \\ (\triangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\triangle) \end{array} \gg \begin{array}{c} (\square) \\ (\triangle) \end{array} > \begin{array}{c} (\square) \\ (\triangle) \end{array} \end{array} \right) \quad \text{Regulativ: Q = sO}$$

$$\left( \begin{array}{c} (\square) \gg \gamma \succ (\blacksquare) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right)$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\circ) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\square^*) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\circ) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right\} \quad \left\{ \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\sqcup) \\ \gamma \\ \succ \end{array} \begin{array}{c} (O) \\ (\Delta) \end{array} \right) \times \left( \begin{array}{c} (oS) \\ (sS) \end{array} \gg \begin{array}{c} (oO) \\ \gamma \\ \succ \end{array} \begin{array}{c} (sO) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\sqcup) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (O) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\sqcup^*) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

### 8. Präsemiotisches Dualsystem $(\circlearrowleft \square \Delta \sqcup) \times (\sqcup^* \square \Delta \square)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (O) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\Delta) \\ (O) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (O) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (O) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (O) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\square) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (O) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\sqcup) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\sqcup^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ \end{array} \begin{array}{c} (\Delta) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

## Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} (\square) \gg (\circlearrowleft) \\ (\square) \gg (\circlearrowright) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\triangle) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\circlearrowleft) \end{array} \right\} \times \left\{ \begin{array}{c} (\triangle) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \gg (\square) \\ (\circlearrowleft) \end{array} \right\} \times \left\{ \begin{array}{c} (\triangle) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} (\square) \gg (\circlearrowleft) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\triangle) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\circlearrowleft) \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \gg (\square) \\ (\triangle) \end{array} \right\} \quad \text{Regulativ: } I = ssS$$

$$\left\{ \begin{array}{c} (\circlearrowleft) \gg (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \end{array} \right\}$$

### Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & \gg & (\circ) \\ & \vee & > (\blacksquare) \\ & (\Delta) & \end{array} \right) \times \left( \begin{array}{ccc} (\blacksquare) & \gg & (\square) \\ & \vee & > (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & \gg & (\Delta) \\ & \vee & > (\blacksquare) \\ & (\circ) & \end{array} \right) \times \left( \begin{array}{ccc} (\blacksquare) & \gg & (\blacktriangle) \\ & \vee & > (\square^*) \\ & (\square) & \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\circ) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right\} \quad \text{Regulativ: } M = oS \\
 \left\{ \begin{array}{c} (\circ) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\Delta) \\ (\circ) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\circ) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } Q = sO \\
 \left\{ \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \\
 \left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS \\
 \left\{ \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\Delta) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square^*) \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ \text{O = oO} \end{array} \right\}$$

### 9. Präsemiotisches Dualsystem $(\circ \square \Delta \square) \times (\square^* \circ \square \Delta)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\circ) \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = ss \end{array} \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \succ \\ (\Delta) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = ss \end{array} \right\}$$

### Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\blacktriangle) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\blacktriangle) \\ (\square) \end{array} \right)$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\circ) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right)$$

$$\left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right) \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right)$$

### Objektales Handeln ( $O = oO$ )

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\square) \gg \gamma \succ (\square^*) \\ (\blacktriangle) \end{array} \right) \left. \right\} \text{Regulativ: } Q = sO$$

$$\left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\square) \\ (\circ) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right)$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\circ) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\circ) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\blacktriangle) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\circ) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\circ) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle S) \\ (\circ) \end{array} \right\}$$

Interpretatives Handeln ( $I = sS$ )

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\circ) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\blacksquare) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\square) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\circ) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \\ (\square^*) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\circ) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \\ (\circ) \end{array} \gg \begin{array}{c} (\square^*) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\circ) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

10. Präsemiotisches Dualsystem  $(\circ \blacksquare \blacktriangle \square) \times (\square^* \circ \bullet \blacktriangle)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\bullet) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\circ) \\ (\blacktriangle) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \\ (\circ) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \\ (\bullet) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\circ) \\ (\bullet) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\bullet) \\ (\blacktriangle) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\blacksquare) \\ (\circ) \\ (\square) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \\ (\circ) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\bullet) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

$$\left( \begin{array}{c} (\circ) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\bullet) \\ (\circ) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\circ) \\ (\blacksquare) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square) \\ (\square^*) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \\ (\blacksquare) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\blacktriangle) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

### Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (O) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (\blacksquare) & \end{array} \right) \times \left( \begin{array}{ccc} & (O) & (O) \\ (O) & \gg & \gamma \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\blacksquare) & \\ (\square) & \gg & \gamma \succ (\blacktriangle) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (O) & \gg & \gamma \succ (\square^*) \\ & (O) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (\blacksquare) & \gg & \gamma \succ (\blacktriangle) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (O) & \gg & \gamma \succ (O) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (O) & \\ (\blacksquare) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (O) & \gg & \gamma \succ (O) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\square) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (\blacksquare) & \end{array} \right) \times \left( \begin{array}{ccc} & (O) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (\square^*) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\blacksquare) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (O) & \gg & \gamma \succ (\blacktriangle) \\ & (O) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

Regulativ:  
 $O = oO$

Regulativ:  
 $I = sS$

### Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} & (O) & \\ (\square) & \gg & \gamma \succ (\blacksquare) \\ & (\blacktriangle) & \end{array} \right) \times \left( \begin{array}{ccc} & (O) & \\ (O) & \gg & \gamma \succ (\square^*) \\ & (\blacktriangle) & \end{array} \right) \\ \\ \left( \begin{array}{ccc} & (\blacktriangle) & \\ (\square) & \gg & \gamma \succ (\blacksquare) \\ & (O) & \end{array} \right) \times \left( \begin{array}{ccc} & (\blacktriangle) & \\ (O) & \gg & \gamma \succ (\square^*) \\ & (O) & \end{array} \right) \end{array} \right\}$$

Regulativ:  
 $Q = sO$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\circ) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacktriangle) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\circ) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\blacktriangle) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\blacksquare) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\circ) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\circ) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\circ) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\circ) \\ (\bullet) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

### 11. Präsemiotisches Dualsystem $(\bullet \blacksquare \blacktriangle \square) \times (\square^* \square \blacksquare \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square^*) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \gg \gamma \succ (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\blacksquare) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square^*) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \right\}$$
  

$$\left( \begin{array}{c} (\blacktriangle) \\ (\bullet) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square^*) \gg \gamma \succ (\blacksquare) \\ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & (\bullet) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\square) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\bullet) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\bullet) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\bullet) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\square) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\Delta) \\ (\square) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{ccc} (\square) & & (\bullet) \\ (\square) & \gg & \gamma \succ (\square) \\ (\Delta) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \\ \\ \left( \begin{array}{ccc} (\square) & & (\Delta) \\ (\square) & \gg & \gamma \succ (\square) \\ (\bullet) & & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & & (\square) \\ (\square) & \gg & \gamma \succ (\square^*) \\ (\square) & & \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\Delta) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\Delta) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\Delta) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln ( $I = sS$ )

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\bullet) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\sqcup) \\ \succ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\sqcup^*) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\square) \\ (\sqcup) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\sqcup^*) \end{array} \gg \begin{array}{c} (\sqcup^*) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

12. Präsemiotisches Dualsystem  $(\bullet \square \Delta \sqcup) \times (\sqcup^* \square \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\bullet) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left( \begin{array}{c} (\Delta) \\ (\bullet) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ M = oS \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\bullet) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\bullet) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\square) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \succ (\square) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left( \begin{array}{c} (\bullet) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \\ (\blacksquare) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

$$\left( \begin{array}{c} (\bullet) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\sqcup) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\square) \\ (\blacksquare) \end{array} \gg \begin{array}{c} (\square) \\ \succ (\blacksquare) \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

## Mediales Handeln ( $M = oS$ )

$$\left( \begin{array}{ccc} (\square) & \gg & (\bullet) \\ & \vee & > (\Delta) \\ & (\square) & \end{array} \right) \times \left( \begin{array}{ccc} (\square) & \gg & (\square) \\ & \vee & > (\square^*) \\ & (\square) & \end{array} \right) \quad \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \gg (\Box) \\ (\square) \gg (\Diamond) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square) \gg (\Box) \\ (\square) \gg (\Diamond) \\ (\Box) \end{array} \right)$$

$$\left( \begin{array}{c} (\Box) \gg \gamma > (\Delta) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\Box) \gg \gamma > (\blacksquare) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } \Omega^- \circ \Omega$$

$$\left( \begin{array}{ccc} & (\bullet) & \\ (\blacksquare) & \gg & \vee & \succ & (\blacktriangle) \\ & (\square) & & & \end{array} \right) \times \left( \begin{array}{ccc} & (\square^*) & \\ (\square) & \gg & \vee & \succ & (\blacksquare) \\ & (\blacksquare) & & & \end{array} \right)$$

$$\left( \begin{array}{c} (\bullet) \gg (\square) \\ (\square) \gg (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\square) \gg (\blacksquare) \\ (\square) \gg (\square^*) \end{array} \right) \quad \text{Regulativ:}$$

$$\left( \begin{array}{ccccc} (\bullet) & \gg & (\blacksquare) & & \\ & & \vee & \succ & (\Delta) \\ & & (\square) & & \end{array} \right) \times \left( \begin{array}{ccccc} & & (\square^*) & & \\ (\square) & \gg & \vee & \succ & (\blacksquare) \\ & & (\blacksquare) & & \end{array} \right) \quad T = sS$$

### Objektales Handeln ( $O \equiv oO$ )

$$\left( \begin{array}{ccc} & (\bullet) & \\ (\square) & \gg & \succ (\square) \\ & (\Delta) & \end{array} \right) \times \left( \begin{array}{ccc} & (\square) & \\ (\square) & \gg & \succ (\square^*) \\ & (\blacksquare) & \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = sO$$

$$\left( \begin{array}{c} (\square) \gg (\Delta) \vee (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \gg (\square) \vee (\square^*) \\ (\square) \end{array} \right)$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\square) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\Delta) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\square) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\Delta) \\ (\bullet) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\bullet) \\ (\Delta) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\Delta) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\Delta) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\Delta) \\ (\Delta) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\bullet) \\ (\Delta) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\bullet) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square^*) \\ \gamma \\ \succ (\square) \end{array} \right) \quad \left. \right\} \text{Qualitatives Handeln } (Q = sO)$$

13. Präsemiotisches Dualsystem  $(\bullet \square \Delta \square) \times (\square^* \circ \square \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\Delta) \\ (\square) \end{array} \gg \begin{array}{c} (\bullet) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (O) \end{array} \right) \quad \left. \right\} \text{Regulativ: } M = oS$$

$$\left( \begin{array}{c} (\Delta) \\ (\bullet) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (O) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\Delta) \end{array} \gg \begin{array}{c} (\bullet) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \gg \begin{array}{c} (oO) \\ \gamma \\ \succ (\square) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\square) \\ (\bullet) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (O) \end{array} \right) \quad \left. \right\}$$

$$\left( \begin{array}{c} (\bullet) \\ (\square) \end{array} \gg \begin{array}{c} (\Delta) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\blacksquare) \end{array} \right) \quad \left. \right\} \text{Regulativ: } I = sS$$

$$\left( \begin{array}{c} (\bullet) \\ (\square) \end{array} \gg \begin{array}{c} (\square) \\ \gamma \\ \succ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \end{array} \gg \begin{array}{c} (O) \\ \gamma \\ \succ (\blacksquare) \end{array} \right) \quad \left. \right\}$$

Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \\ (\blacksquare) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\square^*) \\ (sO) \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\bullet) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\square^*) \\ (\blacksquare) \\ (\square) \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ (\bullet) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\square) \\ (\square^*) \end{array} \right) \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right) \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \\ (\square) \end{array} \gg \gamma \succ (\blacktriangle) \right) \times \left( \begin{array}{c} (o) \gg \gamma \succ (\blacksquare) \\ (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \\ (\blacktriangle) \end{array} \gg \gamma \succ (\blacksquare) \right) \times \left( \begin{array}{c} (o) \\ (\blacksquare) \end{array} \gg \gamma \succ (\square^*) \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\bullet) \end{array} \gg \gamma \succ (\blacksquare) \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \end{array} \gg \gamma \succ (\square^*) \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\circ) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\square) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

Interpretatives Handeln ( $I = sS$ )

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\square) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\square) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\square) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\square^*) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\circ) \\ (\square) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \\ (\square) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\square) \\ (\circ) \end{array} \gg \begin{array}{c} (\square^*) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\square^*) \\ (\circ) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

14. Präsemiotisches Dualsystem  $(\bullet \blacksquare \blacktriangle \square) \times (\square^* \circ \bullet \blacksquare)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\blacktriangle) \\ (\bullet) \\ (\blacksquare) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacksquare) \\ (\bullet) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\bullet) \\ (\circ) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\blacktriangle) \\ (\bullet) \\ (\bullet) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\blacksquare) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \\ (\bullet) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\circ) \end{array} \succ \begin{array}{c} (\blacksquare) \\ (\circ) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\blacksquare) \\ (\bullet) \\ (\blacktriangle) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacksquare) \\ (\bullet) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\circ) \\ (\bullet) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\blacksquare) \\ (\bullet) \\ (\bullet) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \\ (\circ) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\bullet) \end{array} \succ \begin{array}{c} (\blacksquare) \\ (\bullet) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\blacktriangle) \\ (\blacksquare) \end{array} \gg \begin{array}{c} (\blacktriangle) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \\ (\circ) \end{array} \gg \begin{array}{c} (\bullet) \\ \vee \\ (\blacksquare) \end{array} \succ \begin{array}{c} (\bullet) \\ (\blacksquare) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\blacktriangle) \\ (\bullet) \end{array} \gg \begin{array}{c} (\blacksquare) \\ \vee \\ (\square) \end{array} \succ \begin{array}{c} (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\square^*) \\ (\bullet) \end{array} \gg \begin{array}{c} (\circ) \\ \vee \\ (\blacksquare) \end{array} \succ \begin{array}{c} (\circ) \\ (\blacksquare) \end{array} \right) \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\square) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right) \end{array} \right\} \text{Regulativ: } O = oO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\blacksquare) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\blacksquare) \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ (\circ) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right) \end{array} \right\} \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right) \end{array} \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\bullet) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\blacksquare) \end{array} \right) \end{array} \right\} \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} \left( \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\blacksquare) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\blacksquare) \end{array} \right\} \quad \text{Regulativ: } M = oS \\
\left\{ \begin{array}{c} (\square) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \left\{ \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right\} \quad \text{Regulativ: } Q = sO \\
\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\} \\
\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS \\
\left\{ \begin{array}{c} (\blacksquare) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (oO) \gg \gamma \succ (oS) \\ (\bullet) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$

15. Präsemiotisches Dualsystem  $(\bullet \blacksquare \blacktriangle \square) \times (\square^* \circ \bullet \bullet)$

Qualitatives Handeln ( $Q = sO$ )

$$\left( \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\square^*) \gg \gamma \succ (\circ) \\ (\bullet) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } M = oS$$
  

$$\left( \begin{array}{c} (\blacksquare) \\ (\blacktriangle) \gg \gamma \succ (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ (\square^*) \gg \gamma \succ (\circ) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\square^*) \gg \gamma \succ (\bullet) \\ (\bullet) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } O = oO$$
  

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \gg \gamma \succ (\square) \\ (\bullet) \end{array} \right) \times \left( \begin{array}{c} (\bullet) \\ (\square^*) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\square) \\ (\blacksquare) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\square^*) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{Regulativ: } I = sS$$
  

$$\left( \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\square) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\square^*) \gg \gamma \succ (\bullet) \\ (\bullet) \end{array} \right) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\}$$

Mediales Handeln ( $M = oS$ )

$$\left\{ \begin{array}{c} (\bullet) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\blacktriangle) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\circ) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\blacksquare) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\blacksquare) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\bullet) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ O = oO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\bullet) \gg \gamma \succ (\blacktriangle) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\bullet) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ I = sS \end{array} \right\}$$

Objektales Handeln ( $O = oO$ )

$$\left\{ \begin{array}{c} (\bullet) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\bullet) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\} \left. \begin{array}{l} \text{Regulativ:} \\ Q = sO \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\bullet) \end{array} \right\} \times \left\{ \begin{array}{c} (\bullet) \\ (\circ) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\bullet) \\ (\blacktriangle) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\circ) \gg \gamma \succ (\circ) \\ (\bullet) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\circ) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } I = sS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\bullet) \gg \gamma \succ (\blacksquare) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right\}$$

Interpretatives Handeln (I = sS)

$$\left\{ \begin{array}{c} (\blacksquare) \\ (\square) \gg \gamma \succ (\bullet) \\ (\blacktriangle) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\} \quad \text{Regulativ: } Q = sO$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\square) \gg \gamma \succ (\bullet) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\square^*) \\ (\circ) \end{array} \right\}$$

$$\left\{ \begin{array}{c} (\square) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\blacksquare) \end{array} \right\} \times \left\{ \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\square^*) \end{array} \right\} \quad \text{Regulativ: } M = oS$$

$$\left\{ \begin{array}{c} (\blacktriangle) \\ (\blacktriangle) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right\} \times \left\{ \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\circ) \\ (\circ) \end{array} \right\}$$

$$\left( \begin{array}{c} (\square) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\blacktriangle) \end{array} \right) \times \left( \begin{array}{c} (\circ) \\ (\bullet) \gg \gamma \succ (\bullet) \\ (\square^*) \end{array} \right) \quad \left. \right\} \text{Regulativ: } O = oO$$

$$\left( \begin{array}{c} (\blacktriangle) \\ (\blacksquare) \gg \gamma \succ (\bullet) \\ (\square) \end{array} \right) \times \left( \begin{array}{c} (\square^*) \\ (\bullet) \gg \gamma \succ (\bullet) \\ (\circ) \end{array} \right) \quad \left. \right\}$$

Hiermit liegt also eine vollständige qualitativ-semiotische kreative Grammatik vor. Jeder qualitative Objektbezug kann durch eine bestimmte Kombination der übrigen semiotischen Qualitäten im Rahmen der qualitativen semiotischen Handlungstheorie erzeugt werden.

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