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Präsemiotische Iteration

1. Wir gehen aus von den 9 dualinvarianten präsemiotischen Relationen (vgl. Toth 2026a);

$Z^* = f(0.0)$	$Z^* = f(1.1)$	$Z^* = f(3.3)$
0.1 0.0 1.0	0.1 1.1 1.0	0.1 3.3 1.0
0.3 0.0 3.0	0.3 1.1 3.0	0.3 3.3 3.0
1.3 0.0 3.1	1.3 1.1 3.1	1.3 3.3 3.1

Bildet man dazu die trajektischen Relationen (vgl. Toth 2026a), erhält man eindrückliche Beispiele wachsender Hierarchien von iterativen semiotischen Relationen (vgl. Toth 2010), wie sie sonst nur aus der polykontexturalen Logik bekannt sind.

2. Präsemiotische Iteration

1. $T(0.1, 0.0, 1.0) = (0.0, 1.0, 0.1, 0.0)$

$$T(0.0, 1.0, 0.1, 0.0) = (0.1, 0.0, 1.0, 0.1, 0.0, 1.0)$$

$$T(0.1, 0.0, 1.0, 0.1, 0.0, 1.0) = (0.0, 1.0, 0.1, 0.0, 1.0, 0.1, 0.0, 1.0, 0.1, 0.0)$$

2. $T(0.3, 0.0, 3.0) = (0.0, 3.0, 0.3, 0.0)$

$$T(0.0, 3.0, 0.3, 0.0) = (0.3, 0.0, 3.0, 0.3, 0.0, 3.0)$$

$$T(0.3, 0.0, 3.0, 0.3, 0.0, 3.0) = (0.0, 3.0, 0.3, 0.0, 3.0, 0.3, 0.0, 3.0, 0.3, 0.0)$$

3. $T(1.3, 0.0, 3.1) = (1.0, 3.0, 0.3, 0.1)$

$$T(1.0, 3.0, 0.3, 0.1) = (1.3, 0.0, 3.0, 0.3, 0.0, 3.1)$$

$$T(1.3, 0.0, 3.0, 0.3, 0.0, 3.1) = (1.0, 3.0, 0.3, 0.0, 3.0, 0.3, 0.0, 3.0, 0.3, 0.1)$$

4. $T(0.1, 1.1, 1.0) = (0.1, 1.1, 1.1, 1.0)$

$$T(0.1, 1.1, 1.1, 1.0) = (0.1, 1.1, 1.1, 1.1, 1.1, 1.0)$$

$$T(0.1, 1.1, 1.1, 1.1, 1.1, 1.0) = (0.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.0)$$

5. $T(0.3, 1.1, 3.0) = (0.1, 3.1, 1.3, 1.0)$

$$T(0.1, 3.1, 1.3, 1.0) = (0.3, 1.1, 3.1, 1.3, 1.1, 3.0)$$

$$T(0.3, 1.1, 3.1, 1.3, 1.1, 3.0) = (0.1, 3.1, 1.3, 1.1, 3.1, 1.3, 1.1, 3.1, 1.3, 1.0)$$

6. $T(1.3, 1.1, 3.1) = (1.1, 3.1, 1.3, 1.1)$
 $T(1.1, 3.1, 1.3, 1.1) = (1.3, 1.1, 3.1, 1.3, 1.1, 3.1)$
 $T(1.3, 1.1, 3.1, 1.3, 1.1, 3.1) = (1.1, 3.1, 1.3, 1.1, 3.1, 1.3, 1.1, 3.1, 1.3, 1.1)$
7. $T(0.3, 3.3, 1.0) = (0.3, 1.3, 3.1, 3.0)$
 $T(0.3, 1.3, 3.1, 3.0) = (0.1, 3.3, 1.3, 3.1, 3.3, 1.0)$
 $T(0.1, 3.3, 1.3, 3.1, 3.3, 1.0) = (0.3, 1.3, 3.1, 3.3, 1.3, 3.1, 3.3, 1.3, 3.1, 3.0)$
8. $T(0.3, 3.3, 3.0) = (0.3, 3.3, 3.3, 3.0)$
 $T(0.3, 3.3, 3.3, 3.0) = (0.3, 3.3, 3.3, 3.3, 3.3, 3.0)$
 $T(0.3, 3.3, 3.3, 3.3, 3.3, 3.0) = (0.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.0)$
9. $T(1.3, 3.3, 3.1) = (1.3, 3.3, 3.3, 3.1)$
 $T(1.3, 3.3, 3.3, 3.1) = (1.3, 3.3, 3.3, 3.3, 3.3, 3.1)$
 $T(1.3, 3.3, 3.3, 3.3, 3.3, 3.1) = (1.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.3, 3.1)$

Literatur

- Toth, Alfred, Semiotische Iteration und Akkretion. In: Electronic Journal for Mathematical Semiotics, 2010
- Toth, Alfred, Dualinvariante präsemiotische Relationen. In: Electronic Journal for Mathematical Semiotics, 2026a
- Toth, Alfred, Eigentrajektische und nicht-eigentrajektische Dyaden. In: Electronic Journal for Mathematical Semiotics, 2026b

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