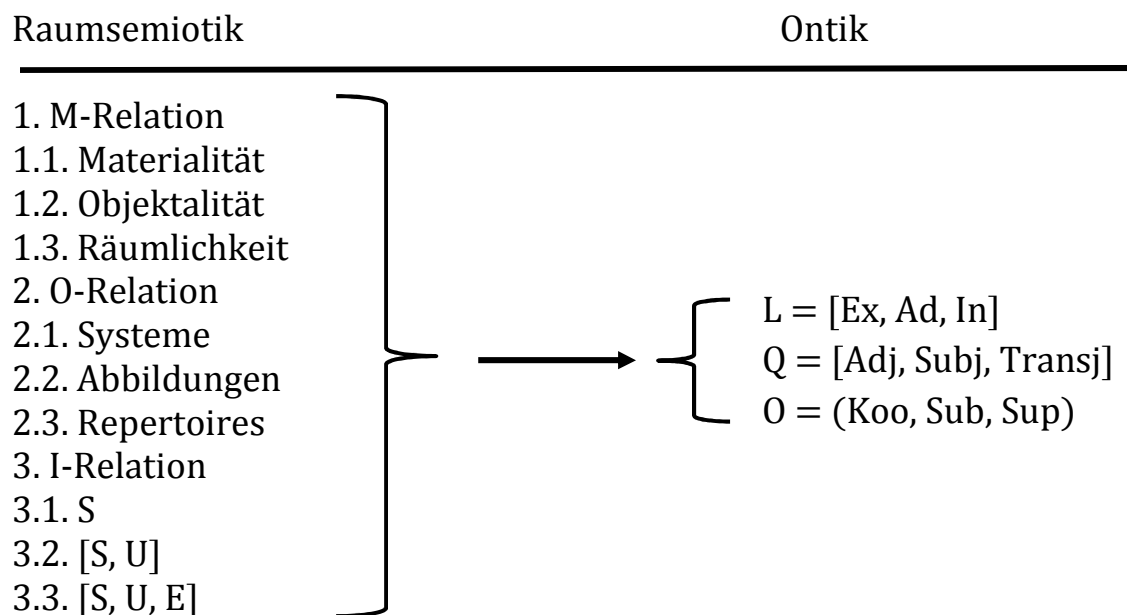


Grundlegung einer vollständigen raumsemiotisch-ontischen Grammatik

1. Genauso, wie man in der Semiotik seit Bense (1975, S. 37) von der kleinen semiotischen Matrix ausgeht, um Zeichenklassen und Realitätsthematiken zu bilden, benötigt man die Erweiterung der raumsemiotischen Objektrelation, die Bense eingeführt hatte (vgl. Bense/Walther 1973, S. 80), zu einer raumsemiotischen Matrix und die Reduktion der 6 ontischen Abbildungen auf die 3 Basis-Abbildungen aus Toth (2016), um zu einer vollständigen raumsemiotisch-ontischen Grammatik zu gelangen. Während also die in Toth (2016) präsentierten 2 mal 81 ontisch-semiotischen Relationen die Isomorphie zwischen systemischen Relationen auf der Basis der allgemeinen Systemrelation $S^* = [S, U, E]$ sowie auf der Basis der benseschen raumsemiotischen Relation $B = [(2.1), (2.2), (2.3)]$ angeben, erlauben es die im folgenden präsentierten 9 mal 27 Relationen, jede der Subkategorien von S^* und von B hinsichtlich der Subkategorien der raumsemiotischen M-, O- und I-Relation selbst zu subkategorisieren.



2.1. M-Relation

2.1.1. Materialität

2.1.1.1. $\text{Mat} = (\text{Ex}, \text{Adj}, \text{Koo})$

2.1.1.2. $\text{Mat} = (\text{Ex}, \text{Adj}, \text{Sub})$

2.1.1.3. $\text{Mat} = (\text{Ex}, \text{Adj}, \text{Sup})$

2.1.1.4. $\text{Mat} = (\text{Ex}, \text{Subj}, \text{Koo})$

2.1.1.5. $\text{Mat} = (\text{Ex}, \text{Subj}, \text{Sub})$

2.1.1.6. $\text{Mat} = (\text{Ex}, \text{Subj}, \text{Sup})$

2.1.1.7. $\text{Mat} = (\text{Ex}, \text{Transj}, \text{Koo})$

2.1.1.8. $\text{Mat} = (\text{Ex}, \text{Transj}, \text{Sub})$

2.1.1.9. $\text{Mat} = (\text{Ex}, \text{Transj}, \text{Sup})$

2.1.1.10. $\text{Mat} = (\text{Ad}, \text{Adj}, \text{Koo})$

2.1.1.11. $\text{Mat} = (\text{Ad}, \text{Adj}, \text{Sub})$

2.1.1.12. $\text{Mat} = (\text{Ad}, \text{Adj}, \text{Sup})$

2.1.1.13. $\text{Mat} = (\text{Ad}, \text{Subj}, \text{Koo})$

2.1.1.14. $\text{Mat} = (\text{Ad}, \text{Subj}, \text{Sub})$

2.1.1.15. $\text{Mat} = (\text{Ad}, \text{Subj}, \text{Sup})$

2.1.1.16. Mat = (Ad, Transj, Koo)

2.1.1.17. Mat = (Ad, Transj, Sub

2.1.1.18. Mat = (Ad, Transj, Sup)

2.1.1.19. Mat = (In, Adj, Koo)

2.1.1.20. Mat = (In, Adj, Sub)

2.1.1.21. Mat = (In, Adj, Sup)

2.1.1.22. Mat = (In, Subj, Koo)

2.1.1.23. Mat = (In, Subj, Sub)

2.1.1.24. Mat = (In, Subj, Sup)

2.1.1.25. Mat = (In, Transj, Koo)

2.1.1.26. Mat = (In, Transj, Sub)

2.1.1.27. Mat = (In, Transj, Sup)

2.1.2. Objektalität

2.1.2.1. Obj = (Ex, Adj, Koo)

2.1.2.2. Obj = (Ex, Adj, Sub)

2.1.2.3. Obj = (Ex, Adj, Sup)

2.1.2.4. $\text{Obj} = (\text{Ex}, \text{Subj}, \text{Koo})$

2.1.2.5. $\text{Obj} = (\text{Ex}, \text{Subj}, \text{Sub})$

2.1.2.6. $\text{Obj} = (\text{Ex}, \text{Subj}, \text{Sup})$

2.1.2.7. $\text{Obj} = (\text{Ex}, \text{Transj}, \text{Koo})$

2.1.2.8. $\text{Obj} = (\text{Ex}, \text{Transj}, \text{Sub})$

2.1.2.9. $\text{Obj} = (\text{Ex}, \text{Transj}, \text{Sup})$

2.1.2.10. $\text{Obj} = (\text{Ad}, \text{Adj}, \text{Koo})$

2.1.2.11. $\text{Obj} = (\text{Ad}, \text{Adj}, \text{Sub})$

2.1.2.12. $\text{Obj} = (\text{Ad}, \text{Adj}, \text{Sup})$

2.1.2.13. $\text{Obj} = (\text{Ad}, \text{Subj}, \text{Koo})$

2.1.2.14. $\text{Obj} = (\text{Ad}, \text{Subj}, \text{Sub})$

2.1.2.15. $\text{Obj} = (\text{Ad}, \text{Subj}, \text{Sup})$

2.1.2.16. $\text{Obj} = (\text{Ad}, \text{Transj}, \text{Koo})$

2.1.2.17. $\text{Obj} = (\text{Ad}, \text{Transj}, \text{Sub})$

2.1.2.18. $\text{Obj} = (\text{Ad}, \text{Transj}, \text{Sup})$

2.1.2.19. $\text{Obj} = (\text{In}, \text{Adj}, \text{Koo})$

2.1.2.20. $\text{Obj} = (\text{In}, \text{Adj}, \text{Sub})$

2.1.2.21. $\text{Obj} = (\text{In}, \text{Adj}, \text{Sup})$

2.1.2.22. $\text{Obj} = (\text{In}, \text{Subj}, \text{Koo})$

2.1.2.23. $\text{Obj} = (\text{In}, \text{Subj}, \text{Sub})$

2.1.2.24. $\text{Obj} = (\text{In}, \text{Subj}, \text{Sup})$

2.1.2.25. $\text{Obj} = (\text{In}, \text{Transj}, \text{Koo})$

2.1.2.26. $\text{Obj} = (\text{In}, \text{Transj}, \text{Sub})$

2.1.2.27. $\text{Obj} = (\text{In}, \text{Transj}, \text{Sup})$

2.1.3. Räumlichkeit

2.1.3.1. $\text{Räu} = (\text{Ex}, \text{Adj}, \text{Koo})$

2.1.3.2. $\text{Räu} = (\text{Ex}, \text{Adj}, \text{Sub})$

2.1.3.3. $\text{Räu} = (\text{Ex}, \text{Adj}, \text{Sup})$

2.1.3.4. $\text{Räu} = (\text{Ex}, \text{Subj}, \text{Koo})$

2.1.3.5. $\text{Räu} = (\text{Ex}, \text{Subj}, \text{Sub})$

2.1.3.6. $\text{Räu} = (\text{Ex}, \text{Subj}, \text{Sup})$

2.1.3.7. Räu = (Ex, Transj, Koo)

2.1.3.8. Räu = (Ex, Transj, Sub)

2.1.3.9. Räu = (Ex, Transj, Sup)

2.1.3.10. Räu = (Ad, Adj, Koo)

2.1.3.11. Räu = (Ad, Adj, Sub)

2.1.3.12. Räu = (Ad, Adj, Sup)

2.1.3.13. Räu = (Ad, Subj, Koo)

2.1.3.14. Räu = (Ad, Subj, Sub)

2.1.3.15. Räu = (Ad, Subj, Sup)

2.1.3.16. Räu = (Ad, Transj, Koo)

2.1.3.17. Räu = (Ad, Transj, Sub)

2.1.3.18. Räu = (Ad, Transj, Sup)

2.1.3.19. Räu = (In, Adj, Koo)

2.1.3.20. Räu = (In, Adj, Sub)

2.1.3.21. Räu = (In, Adj, Sup)

2.1.3.22. $R\ddot{a}u = (In, Subj, Koo)$

2.1.3.23. $R\ddot{a}u = (In, Subj, Sub)$

2.1.3.24. $R\ddot{a}u = (In, Subj, Sup)$

2.1.3.25. $R\ddot{a}u = (In, Transj, Koo)$

2.1.3.26. $R\ddot{a}u = (In, Transj, Sub)$

2.1.3.27. $R\ddot{a}u = (In, Transj, Sup)$

2.2. O-Relation

2.2.1. Systeme

2.2.1.1. $Sys = (Ex, Adj, Koo)$

2.2.1.2. $Sys = (Ex, Adj, Sub)$

2.2.1.3. $Sys = (Ex, Adj, Sup)$

2.2.1.4. $Sys = (Ex, Subj, Koo)$

2.2.1.5. $Sys = (Ex, Subj, Sub)$

2.2.1.6. $Sys = (Ex, Subj, Sup)$

2.2.1.7. $Sys = (Ex, Transj, Koo)$

2.2.1.8. $Sys = (Ex, Transj, Sub)$

2.2.1.9. $Sys = (Ex, Transj, Sup)$

2.2.1.10. $\text{Sys} = (\text{Ad}, \text{Adj}, \text{Koo})$

2.2.1.11. $\text{Sys} = (\text{Ad}, \text{Adj}, \text{Sub})$

2.2.1.12. $\text{Sys} = (\text{Ad}, \text{Adj}, \text{Sup})$

2.2.1.13. $\text{Sys} = (\text{Ad}, \text{Subj}, \text{Koo})$

2.2.1.14. $\text{Sys} = (\text{Ad}, \text{Subj}, \text{Sub})$

2.2.1.15. $\text{Sys} = (\text{Ad}, \text{Subj}, \text{Sup})$

2.2.1.16. $\text{Sys} = (\text{Ad}, \text{Transj}, \text{Koo})$

2.2.1.17. $\text{Sys} = (\text{Ad}, \text{Transj}, \text{Sub})$

2.2.1.18. $\text{Sys} = (\text{Ad}, \text{Transj}, \text{Sup})$

2.2.1.19. $\text{Sys} = (\text{In}, \text{Adj}, \text{Koo})$

2.2.1.20. $\text{Sys} = (\text{In}, \text{Adj}, \text{Sub})$

2.2.1.21. $\text{Sys} = (\text{In}, \text{Adj}, \text{Sup})$

2.2.1.22. $\text{Sys} = (\text{In}, \text{Subj}, \text{Koo})$

2.2.1.23. $\text{Sys} = (\text{In}, \text{Subj}, \text{Sub})$

2.2.1.24. $\text{Sys} = (\text{In}, \text{Subj}, \text{Sup})$

2.2.1.25. $\text{Sys} = (\text{In}, \text{Transj}, \text{Koo})$

2.2.1.26. $\text{Sys} = (\text{In}, \text{Transj}, \text{Sub})$

2.2.1.27. $\text{Sys} = (\text{In}, \text{Transj}, \text{Sup})$

2.2.2. Abbildungen

2.2.2.1. $\text{Abb} = (\text{Ex}, \text{Adj}, \text{Koo})$

2.2.2.2. $\text{Abb} = (\text{Ex}, \text{Adj}, \text{Sub})$

2.2.2.3. $\text{Abb} = (\text{Ex}, \text{Adj}, \text{Sup})$

2.2.2.4. $\text{Abb} = (\text{Ex}, \text{Subj}, \text{Koo})$

2.2.2.5. $\text{Abb} = (\text{Ex}, \text{Subj}, \text{Sub})$

2.2.2.6. $\text{Abb} = (\text{Ex}, \text{Subj}, \text{Sup})$

2.2.2.7. $\text{Abb} = (\text{Ex}, \text{Transj}, \text{Koo})$

2.2.2.8. $\text{Abb} = (\text{Ex}, \text{Transj}, \text{Sub})$

2.2.2.9. $\text{Abb} = (\text{Ex}, \text{Transj}, \text{Sup})$

2.2.2.10. $\text{Abb} = (\text{Ad}, \text{Adj}, \text{Koo})$

2.2.2.11. $\text{Abb} = (\text{Ad}, \text{Adj}, \text{Sub})$

2.2.2.12. $\text{Abb} = (\text{Ad}, \text{Adj}, \text{Sup})$

2.2.2.13. Abb = (Ad, Subj, Koo)

2.2.2.14. Abb = (Ad, Subj, Sub)

2.2.2.15. Abb = (Ad, Subj, Sup)

2.2.2.16. Abb = (Ad, Transj, Koo)

2.2.2.17. Abb = (Ad, Transj, Sub)

2.2.2.18. Abb = (Ad, Transj, Sup)

2.2.2.19. Abb = (In, Adj, Koo)

2.2.2.20. Abb = (In, Adj, Sub)

2.2.2.21. Abb = (In, Adj, Sup)

2.2.2.22. Abb = (In, Subj, Koo)

2.2.2.23. Abb = (In, Subj, Sub)

2.2.2.24. Abb = (In, Subj, Sup)

2.2.2.25. Abb = (In, Transj, Koo)

2.2.2.26. Abb = (In, Transj, Sub)

2.2.2.27. Abb = (In, Transj, Sup)

2.2.3. Repertoires

2.2.3.1. Rep = (Ex, Adj, Koo)

2.2.3.2. Rep = (Ex, Adj, Sub)

2.2.3.3. Rep = (Ex, Adj, Sup)

2.2.3.4. Rep = (Ex, Subj, Koo)

2.2.3.5. Rep = (Ex, Subj, Sub)

2.2.3.6. Rep = (Ex, Subj, Sup)

2.2.3.7. Rep = (Ex, Transj, Koo)

2.2.3.8. Rep = (Ex, Transj, Sub)

2.2.3.9. Rep = (Ex, Transj, Sup)

2.2.3.10. Rep = (Ad, Adj, Koo)

2.2.3.11. Rep = (Ad, Adj, Sub)

2.2.3.12. Rep = (Ad, Adj, Sup)

2.2.3.13. Rep = (Ad, Subj, Koo)

2.2.3.14. Rep = (Ad, Subj, Sub)

2.2.3.15. Rep = (Ad, Subj, Sup)

2.2.3.16. Rep = (Ad, Transj, Koo)

2.2.3.17. Rep = (Ad, Transj, Sub

2.2.3.18. Rep = (Ad, Transj, Sup)

2.2.3.19. Rep = (In, Adj, Koo)

2.2.3.20. Rep = (In, Adj, Sub)

2.2.3.21. Rep = (In, Adj, Sup)

2.2.3.22. Rep = (In, Subj, Koo)

2.2.3.23. Rep = (In, Subj, Sub)

2.2.3.24. Rep = (In, Subj, Sup)

2.2.3.25. Rep = (In, Transj, Koo)

2.2.3.26. Rep = (In, Transj, Sub)

2.2.3.27. Rep = (In, Transj, Sup)

2.3. I-Relation

2.3.1. S

2.3.1.1. S = (Ex, Adj, Koo)

2.3.1.2. S = (Ex, Adj, Sub)

2.3.1.3. S = (Ex, Adj, Sup)

2.3.1.4. $S = (\text{Ex}, \text{Subj}, \text{Koo})$

2.3.1.5. $S = (\text{Ex}, \text{Subj}, \text{Sub})$

2.3.1.6. $S = (\text{Ex}, \text{Subj}, \text{Sup})$

2.3.1.7. $S = (\text{Ex}, \text{Transj}, \text{Koo})$

2.3.1.8. $S = (\text{Ex}, \text{Transj}, \text{Sub})$

2.3.1.9. $S = (\text{Ex}, \text{Transj}, \text{Sup})$

2.3.1.10. $S = (\text{Ad}, \text{Adj}, \text{Koo})$

2.3.1.11. $S = (\text{Ad}, \text{Adj}, \text{Sub})$

2.3.1.12. $S = (\text{Ad}, \text{Adj}, \text{Sup})$

2.3.1.13. $S = (\text{Ad}, \text{Subj}, \text{Koo})$

2.3.1.14. $S = (\text{Ad}, \text{Subj}, \text{Sub})$

2.3.1.15. $S = (\text{Ad}, \text{Subj}, \text{Sup})$

2.3.1.16. $S = (\text{Ad}, \text{Transj}, \text{Koo})$

2.3.1.17. $S = (\text{Ad}, \text{Transj}, \text{Sub})$

2.3.1.18. $S = (\text{Ad}, \text{Transj}, \text{Sup})$

2.3.1.19. $S = (\text{In}, \text{Adj}, \text{Koo})$

2.3.1.20. $S = (\text{In}, \text{Adj}, \text{Sub})$

2.3.1.21. $S = (\text{In}, \text{Adj}, \text{Sup})$

2.3.1.22. $S = (\text{In}, \text{Subj}, \text{Koo})$

2.3.1.23. $S = (\text{In}, \text{Subj}, \text{Sub})$

2.3.1.24. $S = (\text{In}, \text{Subj}, \text{Sup})$

2.3.1.25. $S = (\text{In}, \text{Transj}, \text{Koo})$

2.3.1.26. $S = (\text{In}, \text{Transj}, \text{Sub})$

2.3.1.27. $S = (\text{In}, \text{Transj}, \text{Sup})$

2.3.2. $[S, U]$

2.3.2.1. $[S, U] = (\text{Ex}, \text{Adj}, \text{Koo})$

2.3.2.2. $[S, U] = (\text{Ex}, \text{Adj}, \text{Sub})$

2.3.2.3. $[S, U] = (\text{Ex}, \text{Adj}, \text{Sup})$

2.3.2.4. $[S, U] = (\text{Ex}, \text{Subj}, \text{Koo})$

2.3.2.5. $[S, U] = (\text{Ex}, \text{Subj}, \text{Sub})$

2.3.2.6. $[S, U] = (\text{Ex}, \text{Subj}, \text{Sup})$

2.3.2.7. [S, U] = (Ex, Transj, Koo)

2.3.2.8. [S, U] = (Ex, Transj, Sub)

2.3.2.9. [S, U] = (Ex, Transj, Sup)

2.3.2.10. [S, U] = (Ad, Adj, Koo)

2.3.2.11. [S, U] = (Ad, Adj, Sub)

2.3.2.12. [S, U] = (Ad, Adj, Sup)

2.3.2.13. [S, U] = (Ad, Subj, Koo)

2.3.2.14. [S, U] = (Ad, Subj, Sub)

2.3.2.15. [S, U] = (Ad, Subj, Sup)

2.3.2.16. [S, U] = (Ad, Transj, Koo)

2.3.2.17. [S, U] = (Ad, Transj, Sub)

2.3.2.18. [S, U] = (Ad, Transj, Sup)

2.3.2.19. [S, U] = (In, Adj, Koo)

2.3.2.20. [S, U] = (In, Adj, Sub)

2.3.2.21. [S, U] = (In, Adj, Sup)

2.3.2.22. $[S, U] = (\text{In}, \text{Subj}, \text{Koo})$

2.3.2.23. $[S, U] = (\text{In}, \text{Subj}, \text{Sub})$

2.3.2.24. $[S, U] = (\text{In}, \text{Subj}, \text{Sup})$

2.3.2.25. $[S, U] = (\text{In}, \text{Transj}, \text{Koo})$

2.3.2.26. $[S, U] = (\text{In}, \text{Transj}, \text{Sub})$

2.3.2.27. $[S, U] = (\text{In}, \text{Transj}, \text{Sup})$

2.3.3. $[S, U, E]$

2.3.3.1. $[S, U, E] = (\text{Ex}, \text{Adj}, \text{Koo})$

2.3.3.2. $[S, U, E] = (\text{Ex}, \text{Adj}, \text{Sub})$

2.3.3.3. $[S, U, E] = (\text{Ex}, \text{Adj}, \text{Sup})$

2.3.3.4. $[S, U, E] = (\text{Ex}, \text{Subj}, \text{Koo})$

2.3.3.5. $[S, U, E] = (\text{Ex}, \text{Subj}, \text{Sub})$

2.3.3.6. $[S, U, E] = (\text{Ex}, \text{Subj}, \text{Sup})$

2.3.3.7. $[S, U, E] = (\text{Ex}, \text{Transj}, \text{Koo})$

2.3.3.8. $[S, U, E] = (\text{Ex}, \text{Transj}, \text{Sub})$

2.3.3.9. $[S, U, E] = (\text{Ex}, \text{Transj}, \text{Sup})$

2.3.3.10. $[S, U, E] = (\text{Ad}, \text{Adj}, \text{Koo})$

2.3.3.11. $[S, U, E] = (\text{Ad}, \text{Adj}, \text{Sub})$

2.3.3.12. $[S, U, E] = (\text{Ad}, \text{Adj}, \text{Sup})$

2.3.3.13. $[S, U, E] = (\text{Ad}, \text{Subj}, \text{Koo})$

2.3.3.14. $[S, U, E] = (\text{Ad}, \text{Subj}, \text{Sub})$

2.3.3.15. $[S, U, E] = (\text{Ad}, \text{Subj}, \text{Sup})$

2.3.3.16. $[S, U, E] = (\text{Ad}, \text{Transj}, \text{Koo})$

2.3.3.17. $[S, U, E] = (\text{Ad}, \text{Transj}, \text{Sub})$

2.3.3.18. $[S, U, E] = (\text{Ad}, \text{Transj}, \text{Sup})$

2.3.3.19. $[S, U, E] = (\text{In}, \text{Adj}, \text{Koo})$

2.3.3.20. $[S, U, E] = (\text{In}, \text{Adj}, \text{Sub})$

2.3.3.21. $[S, U, E] = (\text{In}, \text{Adj}, \text{Sup})$

2.3.3.22. $[S, U, E] = (\text{In}, \text{Subj}, \text{Koo})$

2.3.3.23. $[S, U, E] = (\text{In}, \text{Subj}, \text{Sub})$

2.3.3.24. $[S, U, E] = (\text{In}, \text{Subj}, \text{Sup})$

2.3.3.25. $[S, U, E] = (\text{In}, \text{Transj}, \text{Koo})$

2.3.3.26. $[S, U, E] = (\text{In}, \text{Transj}, \text{Sub})$

2.3.3.27. $[S, U, E] = (\text{In}, \text{Transj}, \text{Sup})$

Literatur

Bense, Max, Semiotische Prozesse und Systeme. Baden-Baden 1975

Bense, Max/Walther, Elisabeth, Wörterbuch der Semiotik. Köln 1973

Toth, Alfred, Grundlegung einer vollständigen ontisch-semiotischen Grammatik. In: Electronic Journal for Mathematical Semiotics, 2016

13.4.2016