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Papers from the SEVENTH SCANDINAVIAN CONFERENCE

Linguistics

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## Papers from the SEVENTH SCANDINAVIAN CONFERENCE of Linguistics

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**Edited by Fred Karlsson** 

Ole Togeby

THE STRUCTURE OF THE JOKE

# 1. Compositional structure of the narrative

utterances linearly connected in the text, while thematic oppositions, which is a specific characterisation of the parts to one purely relational system of non linear semantic analysis consists in a reduction of the meaning of the text be defined as the composition structure of the sentences or motive of the text and the theme of the text. The motive can entire text meaning. In linguistic text analysis we may distinguish between the

and connecting linear semantic relations are such as the folother functions at the same level of analysis. 1 The defining as a hierarchy of functions, which are segments of text delowing (FUNCTIONS marked by capitals, relations by small letfined and connected by their linear semantic relations to ters underlined): The composition structure of the text can be described

CAUSE----therefore----EFFECT

EFFECT----because----CAUSE

SPECIFICATIONS----SO----GENERAL STATEMENT GENERAL STATEMENT----Viz----SPECIFICATIONS

EVENT----then----EVENT

STATE----while----STATE

EVENT----after----EVENT

CONCLUSION----since----ARGUMENT ARGUMENT----consequently----CONCLUSION

FUNCTION----and----FUNCTION FUNCTION-----FUNCTION

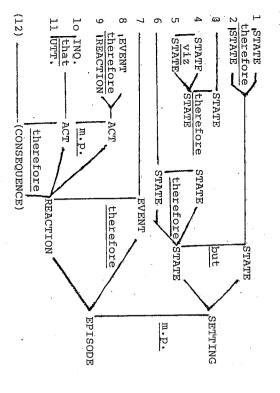
> FUNCTION----even---FUNCTION PRESUPPOSITION----makes possible ---- FUNCTION FUNCTION----presupposes----PRESUPPOSITION FUNCTION----but----CONTRAST

tree diagram. As an example the following anecdote will be analysed in

### The anecdote about Holberg as a barber

- alle, der havde lyst til at tale med ham, som tillige havde who wanted to talk with him could afford to buy the book too råd til at købe bogen. (4) De skaffede sig da et eller andet (4) They would invent some errand som ellers ikke var så let at få i tale. (3) Nu var det ikke whom ist wasn't easy to meet. (3) Not all those, it, partly in order to talk with the renowned hermit, dels for at veksle et par ord med den navnkundige eneboer, shed a new book, people visited him, partly in order to buy sendt en ny bog gik folk op til ham, dels for at købe den og (1) Holberg var sin egen forlægger (2) og når han havde ud-(1) Holberg was his own publisher (2) and when he had publi-
- kræftende og bød sin unge gæst en stol. the affirmative, and offered the young guest a chair. til ham med det samme spørgsmål, (8) og Holberg svarede became and asked the same question (8) and Holberg answered i at gå ind og spørge, om det var her, barberen boede. (6) Men to go and ask if this was the barber's house. (6) But ærinde, (5) og blandt unge mennesker var det et yndet trick (5) and among young people it was a popular trick Holberg anede ret hurtigt uråd. (7) En dag kom en ung student Holberg soon suspected mischief. (7) One day a young student
- øren, bukkede han pænt for synderen og sagde: (11) Jeg sæmade a deep bow to the culprit, and said: (11) I only ber kun folk ind, men derovre bor han der rager dem. lather people, but over there lives the man who shaves them. Holberg havde smurt den unge mand dygtigt ind op over begge berg had lathered the young man's face above his ears, he hvorledes komediedigteren lavede skummet til.(10) Efter at the comedy writer prepared the lather. (10) When Hol (9) Studenten var nødt til at tage plads og roligt overvære (9) The student had to take a seat and quietly witness how Kbh. 1956, p. 288. Henning Fonsmark: Alverdens anekdoter

### Composition structure of the anecdote



Analysed in this way, the anecdote turns out to be an ordinary narrative following all the normal rules, containing a SETTING, where the characters are introduced and an unstable state is described, and an EPISODE with an EVENT and the REACTION.

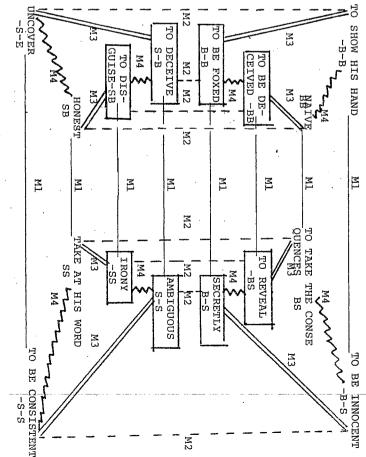
### 2. Thematic structure of the narrative

The thematic core of this anecdote is the semantic opposition between to be and to seem to be. 2) This may be seen from the following paraphrase of the anecdote:

(1) H. has an ambiguous relation to his surroundings, he seems to be at the same time a poet and hermit <u>and</u> a publisher (S-S); (2) rich people can, by buying books, secretly (B-S) study the hermit, (3-5 & 7) but the poor people have to deceive (S-B) and pretend that they want to go to the barber, thus deceiving H. (-BB). (6) H. suspects mischief, without showing it (-SB), and then he takes the student at his word (SS). (9) The student now takes the consequences (BS); in this way he avoids to reveal his identity (-BS). (10-11) But

now H. "shows his hand" (-B-B), and says that he is not the one he is not, so that the student is foxed (B-B) and becomes what he is not, viz at the barber's.

In the parentheses I have indicated that seeming and being can be combined in many ways. You can be what you are (BB), or you can be what you seem to be (BS), or you can seem what you seem to be (SS) or you can seem what you are (SB), and in all the formulas one or both parts can be negated. So the theme..of the text can be described as a purely relational system of semantic oppositions such as the following:



M1: WHAT HE IS - WHAT HE SEEMS TO BE

----M2: TO BE - TO SEEM TO BE

M3: TO P - NOT TO P (negation)

M4: TO P WHAT HE Q - NOT TO P WHAT HE DOESN'T Q

(double negation)

: indicates contradictory states.

and M4. So DECEIVE can be defined as M1-AMBIGUOUS, and SECRET to the other items, the contrastive relations being M1,M2,M3, the 16 semantic items is defined by its contrastive relations chosen (arbitrarily) as the point of departure for the detive, i.e. three contrastive relations can be combined by comoperation of combining. 2) The combining operation is associaitem belonging to the system. The system is closed under the of the contrastive relations, you will always find a semantic M1-M2-AMBIGUOUS. Starting at any semantic item, combining any fined by a combination of Ml and M2 in relation to AMBIGUOUS: trastive relation in the system. So TO BE FOXED can be debe combined by a binary operation, -, yielding another conto the semantic item). Two or more contrastive relations can LY as M2-AMBIGUOUS (the contrastive relation as an operator bining two of them and then combining the result with the corresponding with the identity relation, MO, which applied scription and will serve as the neutral element in the system FOXED, and as M3-M2-TO DECEIVE. 3) Some element has to be third. So TO SHOW ONE'S HAND can be defined both as M3-TO BE the initial element: the contrastive relation between AMis an inverse element which makes it possible to reverse to BIGUOUS. 4) For any contrastive element in the system there to a semantic item yields the same item; MO-AMBIGUOUS = AMsame element by different routes; TO BE FOXED can be defined the system: from the same initial element you can get to the tive, i.e., ML-M2 = M2-M1. That defines the equifinality of M4-M4-M3-M2-M1 = MO. 5) The combining operation is commutabetween DECEIVE and AMBIGUOUS. So Ml-Ml = MO, and Ml-M2-M3-BIGUOUS and DECEIVE is the inverse relation to the contrast M1-SECRETLY and as well as M2- TO DECEIVE. This system has the following characteristics:1) each of

These 5 properties of the system mean that it is a manifestation of a mathematical group (commutative group).  $^3$ ) A group is defined by the triple  $\langle E,-,= \rangle$ , where  $^iE^i$  is a (non empty) set,  $^i-^i$  is a binary operation, which applied to the elements of E yields a new element in E, and  $^i=^i$  is the equivalence relation, so that for any  $x,y,z \in E$  (2) x-(y-z)=(x-y)-z (associative)

- (3) there is an e, such that  $e \in E$  and e-x = x=x-e (neutral element)
- (4) there is an x' such that x'-x = e = x-x' (inverse element)
- (5) x-y = y-x (commutative).

Example: the set of positive and negative integers with the operation + and the neutral element 0; 3+4=7, 2+(3+4)=(2+3)+4, 0+3=3=3+0, 3+(1-3)=0, 3+4=4+3.

In many fields of investigation Group Theory plays a very important role. In the cognitive psychology of Jean Piaget Group Structures are seen as fundamental to all the operations children (and adults) can perform, and the properties of the group are seen as the properties of thinking.

Thus, if Piaget says that the classificatory behavior of a eight-year-old indicates that he possesses the grouping of logical class addition, he means that the child's thought organization in the classificatory area has formal properties (reversibility, associativity, composition, tautology etc) very like those which define this logico-algebraic structure.

John.H.Flavel1: The Developmental Psychology of Jean Piaget, New York 1963, p.169.

In the psychological theory of interaction proposed by Paul Watzlawick et al. group properties are seen as properties of all rational behavior and normal or first order change as opposed to the paradoxical character of real change or second order change.

Group Theory gives us a framework for thinking about the kind of change that can occur within a system that itself. Stays invariant; the Theory of Logical Types is not concerned with what goes on inside a class, i.e., betweem its members, but gives us a frame for considering the relationship between member and class and the particular metamorphosis which is in the nature of shifts from one logical level to the next higher. If we accept the basic distinction between the two theories, it follows that there are two different types of change; one that occurs within a given system which itself remain unchanged, and one whose occurrence changes the system itself.

P.Watzlawick, J.H. Weakland and R. Fish: Change, New York 1974, p.10

the perform many acts which about Holberg as structure of the beginning. Through the narrative the persons of the in group structure. So it is not surprising that the anecdote text doesn!t fall outside system have structure of many texts or text parts have group properti-This means a way very similar to or work of Peter Brask<sup>2)</sup> now be their interrelations constitute ω commutative put forward that although not all the semantic normal to be manifested in Ø barber ends as narrative group all fall within the set of as a hypothesis that the way Holberg was deceived in it has been shown that the themathe always is describable as set of elements it does; the text, the ending of the the student is foxgroup structure the items of defined by elements tematic the story

### The compositional structure of the joke

8

The The tic tο normal narrative though structure of joke about a joke is structure the I will analyse the in composition structure of the normal narrative as shown above. sort of a narrative, it differs from the two fools joke can only be described in relation one joke which is rather typical: as well as π thema-

havde en lygte. had a flashlight. other fool: den tosse: pege op i luften cone of light up this cone of light." lyskegle." (a) (a) aften på en og så svarede han klogt: and answered shrewdly: fools were Historien (6) "Du får 10 kr. (6) "You will get ւ Մ. er walking along a dark road. mørk vej. "Du får 10 kr., well known and very short: velkendt og meget kort: into the air £4 4 (7) Den(7) The Tossen, der havde The fool with the other fool considered for a while anden tosse (9)"Tror du jeg er (9)"Do you think I 55 der havde lygten lader lyskeglen | with the flashlight points with 10 sh. hvis du O sh. if og så siger han til and then he says to you tør kravle op ad tænkte sig lidt (3) Den ene tosse (3) One of the fools dare 200 says to tosset? to tosserwgik one evening 6 climb den den anďn

s, sa slukker ou rygten. will switch off the light." Johannes Møllehave: fluer med eet smæk, Tusind Kbh. 1982

vejs, you wi

(TO)

Tror du ikke jeg kender dig? (11) Don't you think I know you? (11)

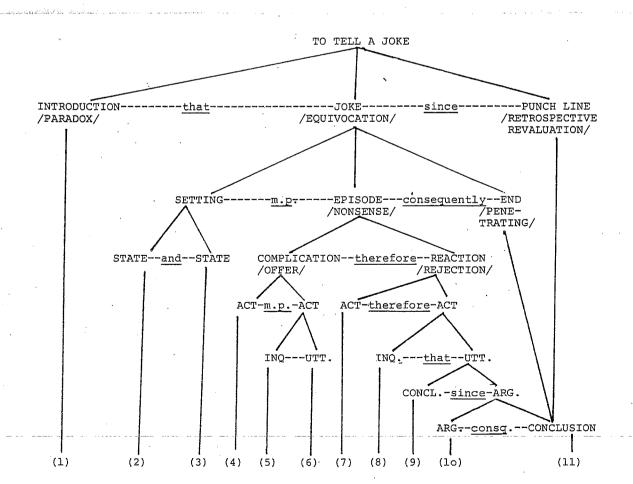
Når jeg er kommet halv-

a fool?

I am halfway

, dn

When



Three comments are to be made about this composition structure:

Before the beginning or SETTING a joke very often has an INTRODUCTION in metalanguage saying, 'this is a joke'. It is important that this is said in metalanguage. It brings to mind the Theory of Logical Types mentioned in the quotation. As it stands here, and in most jokes, it is a sort of liar's paradox and goes as follows: If it is a joke that it is a joke, then it is the pure truth that it is a joke, and so it its a joke that it is a joke that it is a joke that it is a joke it is a joke that it is a joke it is marked that the string of sentences which follows will not be describable within the framework of Group Theory but only within the Theory of Logical

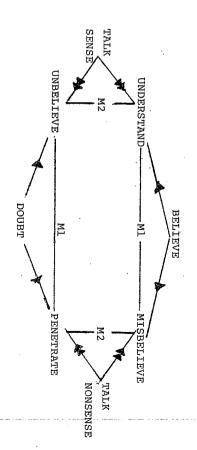
Secondly, the levels of the composition structure are mixed so that one and the same segment of the text constitutes an element on two different levels of analysis. 5) The last sentence in the story, Når jeg er kommet halvvejs, så slukker du lygten, is a perfectly natural CONCLUSION to the ARGUMENT in (10), and together with (10) a natural ARGUMENT for the CONCLUSION in (9), and together with (7-10) a natural REACTION to the EVENT or COMPLICATION which he has met - but at another level of analysis it is the PUNCH LINE of the joke a segment that forces the reader to a retrospective revaluation 6) of all the preceding sentences. What the reader expected would be an answer that would penetrate the nonsense of the first fool, turns out to be cunning of the same nonsensical kind.

Thirdly, the JOKE-function in this composition structure can be analysed partly as a normal narrative, containing the subfunctions SETTING-m.p.-EPISODE(COMPLICATION-therefore-REACTION)-consequently-END, partly as what I have called EQUIVOCATION, a word from the same metalanguage as PARADOX and RETROSPECTIVE REVALUATION. EQUIVOCATION can be defined as a deliberate ambiquity. The equivocal part of the composition is the episode. The COMPLICATION is at the same time an offer (or perhaps a temptation) and nonsense talk; the first meaning is displaced and forgotten, because the second meaning is understood to be more important, stronger as it

of Logical Types and not to Group Theory. metalinguistic activities, hence they pertain to the Theory revision af hierarchical relations between terms are typical of thinking of the audience. The discovery of ambiguities and is changed here is not the life of the two fools, but the way of light and how it feels when the light is turned off. What sense frame. The audience has to imagine how to climb a cone the other way round: the temptation frame rules out the nonthe nonsense frame doesn't rule out the temptation frame, but relations between nonsense and temptation. It turns out that reclassify the EVENTS and ACTS and to revise the hierarchical bigously cunning nonsense, and not sensible at all. So the understood as a sensible reaction to the foolishness of the cannot at the same time be a serious temptation. The functions were, so that it rules out the first one. A piece of nonsense listeners not only have to revaluate the EPISODE, but also to first fool. But in the END the REACTION turns out to be wnam-(7.10) of the REACTION are equivocal in the same way. They are

### 4. Thematic structure of the joke

This can be seen if we try to give a thematic description of the joke. The main semantic opposition in the text (except for the PUNCH LINE) is the one between talking nonsense and talking sense. The answer to these two forms of talk may be either to believe or to doubt. Thus the theme of the joke can be described as the following system of semantic oppositions:



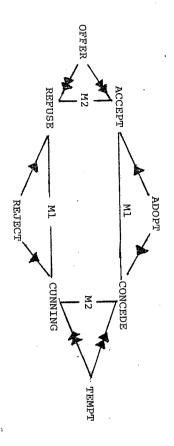
Ml : the first utterance is true - it is false

M2 : to believe - to doubt

: specification

: utterance - reaction

ry had ended with a penetrating answer from the other fool, tic system like the following: the punch line of the joke can only be described by a semanthe thematic analysis would have shown a group structure. But The system of Ml and M2 is a group structure, and if the sto-



MI: the speaker is honest - the speaker is not honest

: trust - mistrust

specification

: utterance - reaction

REFUSE and BE CUNNING (ML in the second scheme). The truth of same as the relations between ACCEPT and CONCEDE respectively UNBELIEVE and PENETRATE (M1 in the first scheme) are not the the relations between UNDERSTAND and MISBELIEVE respectively The two schemes cannot be united to one joint system because disregard of the TRUST-MISTRUST opposition - and vice versa. And in the other dimension (M2) BELIEF and DOUBT presuppose the utterance is independent of the honesty of the speaker.

properties of a group or a commutative group. The shift from joke cannot be described as a symmetrical system having DOUBT to MISTRUST can only be accounted for as a reinterpre-Thus it can be shown that the thematic structure of this

> seen from the composition structure, the listeners have to ceptualisation and classification). And so the PUNCH LINE of when listening to the anecdote - but also from one level (the classification can only be performed if the listener shifts events and acts of the story. This reinterpretation and reliar's paradox. the conceptualisation-and-classification level; and this mixthe PUNCH LINE, both at the class-and-concept level and at perceive at both levels at the same time, viz. at the time of the joke is as paradoxical as the INTRODUCTION.  $^{8)}$  As can be level of concepts and classes) to another (the level of conto shift from one concept or class to another - as they do to a metalevel of consciousness. The listeners not only have tation of the same words, and a reclassification of the same ing of levels is exactly what creates paradoxes like the

### Conclusion

unchangeable. In the stream of common sense communication the shows possibilities of equivocations, and equivocations show of rational ideal communication. Ordinary language always mal flow of communication; is a comment on the impossibility character of a paradox, and which can only be accounted for group of semantic oppositions established in the rest of the  $^{
m 3})_{
m While}$  the semantic value of the end in a normal narrative and the same compositional part of the joke, viz the punch  $^{1)}$ It has to be introduced in the Flow of Communication, by a in the Theory of Logical Types. In this way a joke in the nor spective reinterpretation and reclassification, which has the joke. The reader thus has to perform a metalinguistic retrothe punch line of the joke always falls outside the model always falls within a group system of semantic oppositions, same time, so that the joke is terminated before it ends. line, forms a functional unit at two different levels at the sort of the liar's paradox, and thus forms a boble of unrealithat the rational consensus of the community isn't unique and ty and nonrelation between the communication partners. In summary, we may say that a joke is a sort of a narrative It differs from the normal narrative in three respects:

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joke shows that the reality, such as constituted and created by common sense talk is perhaps not so real after all.

The joke is like a false preacher who marries a couple whose families cannot tolerate each other.

#### Notes

- 1) See van Dijk 74, van Dijk 77, Gülich & Raible 77, Rumelhart 75, Togeby 79 and Togeby 82.
- 2) This type of analysis is suggested in Greimas 66 and Greimas 70 where the process of reduction is described in detail. The model group is taken from Brask 74 and Brask 79 where the so called "structure élémentaire de la signification" of Greimas is criticized and this other version proposed.
- 3) About groups, see Grize and many other authors.
- 4) For this point, see: Fry 63, Marfurt 77 and Watzlawick et al 67.
- 5) See Marfurt 77.
- $\epsilon$ ) See Kock 78 and Kock 79.
- other writers have called equivocation is ment to grasp what other writers have called: duality (Kock 79), bisociation of incompatible frames of reference (Koestler), complex isotopi (Greimas 66). I think it is important that this sort of ambiquity is deliberate, and that the two meanings are incompatible, i.e. rule out each other. Equivocation is a generalization of what Freud (1905, 1979) calls displacement, unification, double meaning, double use of words and condensation. Many of the phenomena discussed by Freud have other names in the classical rhetoric such as: methonymy, synecdoche, metaphor, paronomasia.

8) Fry 53, Watzlawick et al 67, Watzlawick et al 74. Here the role of paradoxes in communication in general is discussed; paradoxes are important ingredients in the schizophrenic family behavior, in the psychotherapy which is supposed to cure the schizophrenia, in dictatorship, in intelligence work - and in jokes.

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