

Overview

- Motivation
- Part I: Suggesting a preliminary taxonomy
 - Fitting in previous research....
 - Conditions and interpretation (preliminary)
- Part II: Pretest
 - How to explore the presence of implicatures?
 - Pilot study using focus particles
- Part III: Proposals for evaluating predictions
 - Intonation as a trigger for implicatures? (S2)
 - Further plans



Realisation of contrast

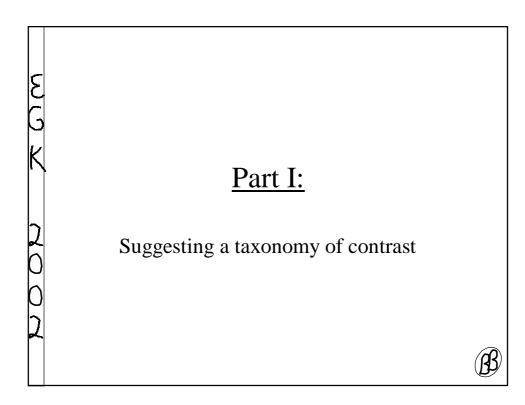
- Phonological difference:
 - Pierrehumbert&Hirschberg(90): L+H* for contrast, H* for NF
 - Selkirk(02): L- phrase accent after contrast.
- Phonetic (continuous) difference:
 - Ladd(93): contrast is extra high or 'boosted'
- No difference (position is important):
 - Krahmer&Swerts(01), Bolinger



Assumption

- Previous Research: different kinds of contrast
 - ... Nein, nicht in die Innenstadt. Sie fuhr zum BAHNhof.
 - Mary buys t_i and Bills sells [pictures of Elvis]_i.
 - Did you feed the animals? I fed the CAT.
 - There are MOvies and there are MOvies.
 - John₁ called Bill₂ a republican and then he inSULted him.
 - John₁ called Bill₂ a republican and then HE insulted HIM.





Grouping: 1) Corrections

- Almost prototypical example of contrast
- Condition: correction of (contrast to) <u>explicitly</u> stated element
- Effect: substitute believed item by contrasted one
 - ⇒ Very prominent realisation:
 - hyperarticulation
 - higher amplitude, longer duration, extended $\rm f_0\textsc{-}$ range



Grouping: 2) Pragmatic contrast

Did you feed the animals? -- I fed the CAT.

Und von was träumst du NACHTS?

- Condition: contrast to element that is not yet salient in the discourse
- Effect:
 - Find out to which item the contrast is established
 - work out an implicature (and react to it)
 - ⇒ marked realisation (higher effort)



Grouping: 3) Linguistic contrast

Economy class is 300 Euro, business class is 200.

- Condition: contrast can be established
 - to accessible elements
 - between new elements (☐) orthogonal to information structure!!)
- Effect:
 - create expectation
 - facilitated processing
 - ⇒ realisation marked



Narrow focus vs. broad focus

• Narrow focus criteria: Accent highlights only focussed word

Why do you ROB banks? Why do you [F rob] banks? Inf on verb

• Broad focus has ambiguos focus domain:

A: Why do you rob BANKS?

B: Because that's where the money is.

Intended structure: Why do you [F rob banks]? Understood structure: Why do you rob [F banks]?



Grouping: 4) Narrow focus

- Methods for elicitating nf: focus priming questions (answers non-elliptical): Who went to Boston? -- [FI] went to Boston.
- Narrow focus often equated with contrast
- Effects:

Only <u>one</u> accent in the phrase, deaccenting after nucleus

⇒ relative salience/prominence syntagmatic contrast (?)



Natural-

ness?

Broad focus

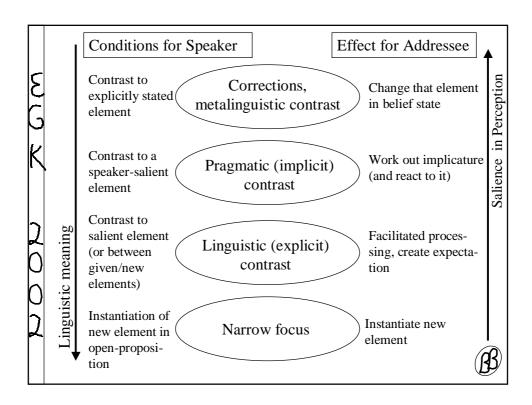
• Focus projection: Broad focus allows for projection of focal domain:

Why do you [Frob banks]? (VP) Because that's [Fwhere the money is]. (N)

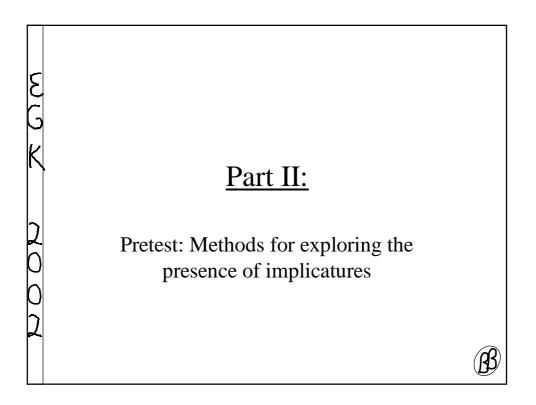
- More than one accent possible (to mark domain of focus)
- Nuclear (last) accent often downstepped

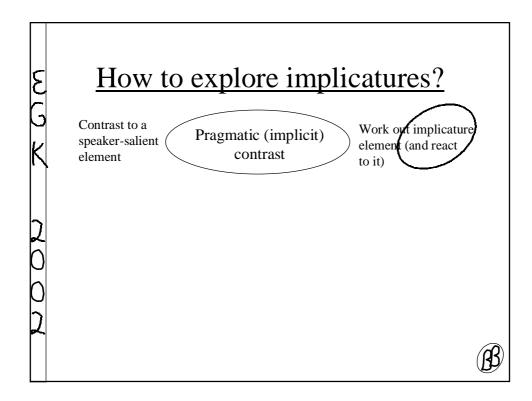
 → not very salient





Why preliminary? Categories or continuum? No predictions about (intonational) realisations How to evaluate effects for addressee? Especially, how to test implicational force?





What are implicatures?

<u>Informal Description:</u>

By uttering a sentence S a speaker implies p

- if S allows the conclusion that p,
- if p was not literally stated by S
- conventional: linked to lexical/gramm. items (often confused with presuppositions)
- conversational: assumption about the observance of the cooperative principle



How to explore implicatures?

Contrast to a speaker-salient element

Pragmatic (implicit) contrast

Work out implicature element (and react to it)

- Use scalar (= focus) particles
 - Only Peter went to Paris. (and nobody else did)
 - Literature: Focus particles evoke conventional implicatures with restricted alternatives



Argument

- Scalar Particles (and topicalisation) trigger implicatures (alternatives)
- Assumption: Reactions to utterances with these elements contain contrasting element
- If assumption is valid:
 - Same method can be used to determine generally whether (contrastive) implicatures are present



Pilot study: Stimuli

- Pragmatic (implicit) contrast through scalar particles (+ topicalisation + quantifier)
- For comparison: linguistic (explicit) contrast where contrast is coded in the linguistic structure



Pilot study: Method

- Task: Textual completion of mini-dialogues
- 6 native German subjects were asked to continue a "turn" or to react to a textual stimuli.



Example stimuli A: Einige Kinder sind schon nach Hause gegangen. A: Die anderen werden auch bald abgeholt B: Was ist mit den anderen?

Pilot study: Method

- Task: Textual completion of mini-dialogues
- 6 native German subjects were asked to continue a "turn" or to react to a textual stimuli.
- They were asked to "drive the conversation"
- Emphasis could be marked by capitals



Pilot study - Stimuli (I)

- 7 sentences with linguistic contrast:
 - Bayerische Schüler sind besser als saarländische.
 - In Deutschland gibt es mehr Arbeitslose als in Frankreich.
- 7 sentences with implicit contrast:
 - Hoffentlich haben Deine Freunde am Gardasee wenigstens schönes Wetter.
 - Sonst hat es Weihnachten immer geschneit.
- 3 fillers



Pilot Study - Hypotheses

- Linguistic (explicit) contrast
 - more continuations
 - no contrast to elements in stimulus utterance
- Pragmatic (implicit) contrast
 - more reactions
 - contrast to some element in stimulus utterance
- Criterion: only explicit contrast is counted
 Sonst hat es Xmas immer geschneit.
 Mußt Du halt nach Norden fahren,

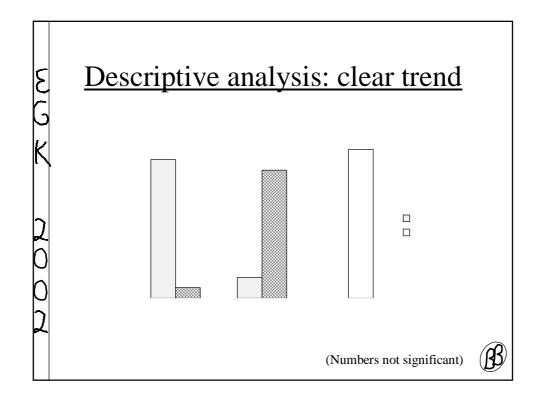


Pilot study - Results

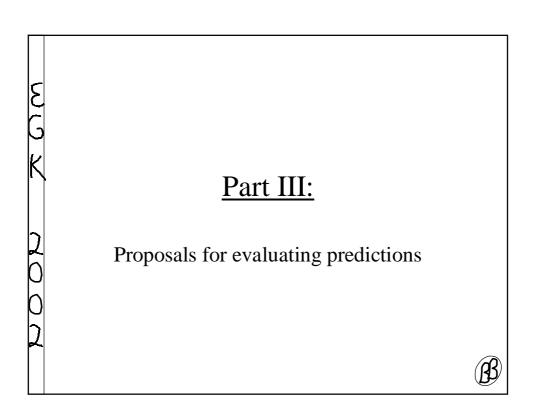
- Subjects preferred <u>reactions</u> to stimuli, irrespecitve of kind of contrast ⇒ due to task!
- Particles + quantifier indeed showed a higher occurence of contrastive reactions
 method for finding implicatures ok!
- Topicalisation hardly triggered contrast
- Subjects did *not* contrast the same items!

 ⇒ due to internal prosody: "even in silent reading, prosody is projected onto written sentences" (Fodor02)





Pilot study as a spring-board Completion of mini-dialogs is a reasonable method to investigate the presence of implicature (reaction with contrastive elements) Is intonation comparatively strong? Problematic cases: temporals (finally, before--nowadays) personal statements (using 1st person pers. pron) topicalisation ironic reactions ⇒ use unpersonal webexp?



Intonation triggers implicature: <u>Argument</u>

- Utterances with particles use contrastive accent to mark focus.
- The truth-conditions of (<u>written</u>) sentences do not change if scalar particles are removed, but the implicature disappears.
- The contrastive <u>accent does not disappear</u> if the particles are removed from the signal



(S2) Intonation & Implicature: Method

- Recording of 10 utterance pairs, like:

 Manchmal gibt es an Ostern Schnee.

 Manchmal gibt es an Ostern sogar Schnee.
- Task: response to utterances
 - group A: written response to written stimuli (random split presentation)
 - group B: oral response to stimuli where particles are removed (random split presentation)





(S2) Hypotheses

- Group A: written material and response
 - stimuli without particle do not evoke contrastive reactions
 - stimuli with particles do (implicature)
- Group B: spoken material and response
 - stimuli without particle do not evoke contrastive reactions (control condition)
 - stimuli with removed particle do
 intonation triggers the implicature



Results

- Presented in September 2002!
- Theoretic goal: Underpin taxonomy
 - Find solid criteria for distinction between linguistic and pragmatic contrast
 - Explore methods for evaluation
- P-goal:
 - Analyse the <u>realisations</u> of the different kinds of contrast

The end...



Open Questions

- Conventional implicature or presupposition?
- When does contrast count as contrast?
- Concept of narrow focus: only a linguistic artefact?!?

