Anaphoric-NP2 and 3 co-specificity phrase 7.

The Real World

Discourse Model

Hearer's Mind

(1') Anaphoric-NP2

(1') Anaphoric-NP3

(1') Phrase 7

(1') Problem -- determining the antecedent of the discourse element for its interpretation.

Anaphora -- pointing back, a discourse element which relies on a previous discourse element.

Anaphora -- Sigder

Focusing the Comprehension of Definite
deny

2. Shared Knowledge is used to confirm or
1. Focusing offers possible co-specificizers

anaphoric expressions
co-specification relationships for
knowledge can be used in determining
Focusing Information and Shared

connections
2. assumed shared knowledge helps establish
(in particular, anaphoric expressions)
1. specific words indicate "sameness" of focus

How do we know what is focused on?

centered on in a discourse
focus the thing that is being currently
sentence
spoken language of more than one
discourse -- a connected piece of text or

Focusing
process expressions during the communication
be used to reason about referring
knowledge about the real world which can
4. Speaker assumes the hearer has certain
the hearer
3. Speaker is not trying to confuse or deceive
the focus of the discourse
2. Speaker assumed that the hearer can identify
the focus
1. Speaker is assumed to be communicating
(meaningful) about something (that something is called
Assumptions about nature of
communication
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1. Focusing data structures are established for initial (previous) sentence.

2. A set of interpretation rules use the focusing

3. The focusing data structures are updated based (in part) on the co-specialization relationships of anaphors in the current world and shared knowledge (to interpret the data structures) with confirmation from

sentence.
Focus Stack - when ever focus is changed,
followed by the VP
surface order, followed by the AF,
non CF or AF (in the sentence ordered by PRL - potential focus list - all other NPs

Generally the theme of the sentence
- sentence is most centerally about
CF - current discourse focus - the thing
position of the database and do not occur in agent
all NPs that specially an animate element
PFL - potential Focu Location - contains
sentence
AF - actor Focus - the semantic agent of the

Data Structures Used in Tracking Focus

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to avoid making \( CF^1 = AF^1 \)

AF and CF should be different (if possible), so if

indicators than are definite NPs

Anaphors are prioritized - pronouns better CF

specified (with a pronoun) in the current sentence

the first of these elements which were co-

Go through these in order, preferring to make CF

stack and the element chosen as CF

this options causes a popping of the

\( CF^1 = \text{Member of Focus Stack}^{1-1} \)

Return to a topic of previous discussion

\( CF^1 = \text{Member of PRL}^{1-1} \)

Talk about something just introduced

\( CF^1 = CF^{1-1} \)

Continue talking about the same things

\( Options \text{ for (CF) focus moves:} \)
Synopsis of Resolution Algorithms

1. Choose the previous CP
2. Choose members of the previous PFL in order
3. Choose top-most element from stack (and continue through stack in order)

Pronoun in non-agent position

- Pronoun Resolution Rules
Some Sample Discourse:

1. I want to schedule a meeting with George,

2. Jim, Steve, and Mike.

3. It's kind of small,

4. We can meet in my office.

5. We'll only need it for about an hour.

6. But we'll have some nice strawberries.

7. Later, I discovered it was Mark who had eaten them.

8. Mark has a hollow leg, and it's impossible to fill it.

9. Keep food around when his stomach needs it.
2. She put it on the table near Bob.

Yesterday.

1. Mary took a nickel from her toy bank.

3. So we went and afterwards had a beer.

Stay home and study.

2. John said he’d come too, but Bill decided to

1. I wanted to go to the movies on Saturday.

4. As they sauntered alone.

3. He hollered “heel” and “run” at it.

2. Since he was trying to train it,

1. Jerome took his pigeon out on a leash.
3. So that there would be room for everyone.

2. She cleaned it up at her house.

1. Cathy wants to have a big graduation party meaning horns.

2. She saw how he threw back his great

1. Sandy walked her dog near a bull.

2. He walked quietly alone.

1. Sandy walked her dog near a bull one day.
Focus Data Structures after S3:

 Phạm stack
CP stack
HOME
1
AP
HOME, NOT SPEND VP AND GOOD FOOD, HOME, AND THE HAVE VP.

Focus Data Structures after S2:

 Phạm stack
CP stack
HOME
1
AP
MONEY, EASILY, AND THE BUDGET VP

Focus Data Structures after S1:

 Phạm stack
CP stack
HOME
1
AP
SUMMER AND THE LIVE VP

Example:

"In Washington DC and my parents live in Illinois. "

(S6) While in college, I could not ask my parents for money right away because I live
(S5) At home, sometimes my parents gave me some money right away when I need —
(S4) While living at college I spend lot of money because — go out to eat almost everyday.

(S3) I did not spend lot of money at home because at home we have lot of good foods, I
(S2) I can budget money easily.
(S1) First, in summer I live at home with my parents.

"
Focus Data Structures after S2:

PPL stack PPL of S4, followed by the PPL stack of S3
CP stack CP of S2, followed by the CP stack of S3

I need VP, my parents, home, give VP

Money, I home, spend VP, almost every day,

Money

in Washington DC and my parents live in Illinois.

While in college, I could not ask my parents for money right away because I live
at a lot of foods.

While living at college I spend a lot of money because I can budget money easily.

I did not spend a lot of money at home because at home we have a lot of good foods.

Example:
class

Wrong pronunciation rule for shorter diphthong last

A Problematic Example for Shorter -ops - note I gave fixed pronunciation

Consensual on the Speakers:

Influence:

that is considered most likely to become the CP of the next
next influence

Hier of Founding-Ordering Centers (C): the Is of all NPs in the

Hier of Next-Ordering Centers (C): this is intended to capture

The data structures:

The centers of a sentence serve to integrate the sentence

Voices in ES and Persian, Freeman, and Pollock 67

Centuring (and Pronoun Resolution) - Grodz, Josh, 6

Continuing

They resolve pronouns!

Note: They say they can handle 2 pro case, but they don't say how

Continuing

The things be under no mood.

Note correct information would be given for:

I, have/1, seen for several days.

AV = J(ell) C(ell) = J(ell)

continuing

The was moved by John's call

4. He treated the dinner costs.

3. He called the students.

2. He trouble learning people above when he isn't busy.

1. John has 3 much homework left.

some effects

for the center, this is not a hard rule, it may be broken but then has

the previous utterance, a pronoun should be used.

If the CP of the current utterance is the same as the CP of

The data structures:

The centers of a sentence serve to integrate the sentence

Voices in ES and Persian, Freeman, and Pollock 67

Centuring (and Pronoun Resolution) - Grodz, Josh, 6

Continuing

He was surprised by the dinner costs.

4. He treated the dinner costs.

3. He called the students.

2. He trouble learning people above when he isn't busy.

1. John has 3 much homework left.
Frame Structures -- Sun 93

After each sentence, we check the focus and noun list.


Subject focus (sf): basically, the sentence subject.

Other NPs in sentence order within the clause. Direct objects, indirect objects, etc.
A discourse segment (pop)

Two sentences block (run on to an element from the previous sentence)

The form p. 65

The three to the northwest

With a sneer, he could see a glimpse of a

Not much of a view.

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the word. 
3. I don't have a lot of weekends. 
2. My wife has a lot of weekends. 
1. I am watching a cartoon.

There are different ways to say:
- Consider the same final discourse, with a different final sentence.
- Consider the same initial discourse, with a different initial sentence.
- Consider the same final sentence, but handle the discourse segment differently.
- Consider the same initial sentence, but handle the discourse segment differently.

Perhaps 3 is the start of a new discourse.

Promotion Information and Grammaratical

(The rim "P")

Promotion is needed in promotion resolution. A promotion must be C of the first sentence. A promotion is for a likely C if it is needed in promotion resolution. The promotion is needed in promotion resolution.

Boo the desk. Behind the desk is the desk. The desk is for a likely C of the desk. A promotion is needed in promotion resolution. A promotion is needed in promotion resolution.

Commaing Centring and RAFT/RAPP

A multi-modal framework between the two frameworks.
Examples. They are not explained. Consider: "Think"

Some fragments (e.g., used by Simmer

differently in different places

Siemer (for example) added up complex sentences

be applied

for determining how the algorithm should

The handling of such sentences are crucial

The complex sentences are very prevalent

Do one think specifics how to handle

"Reasonable but..."

A Corpus analysis seems most

complex sentences

2. Extend our existing algorithm to handle

1. Compare two different focusing algorithms.

Two things we want to do:

Need to do a Corpus analyses

Rules.

- They are based on a number of constraints and
  specifications that are broad ranging and
  include pronouns by focusing all possible co-
  references. Once the focus is resolved
  sentences divide the sentences in an order based
  on semantic distance, including the importance
  of relevant facts, and preferences for
  resolutions of pronouns. Notice how it
  avoids pronoun focusing.

2. RAVT/RAVTresolves pronouns by
  focusing while concentrating on
  pronouns in a different manner than subject
  pronouns and a current focus. Consider
  matching one focus, the CP
  matching two focus; a subject

3. RAVT/RAVTresolves pronouns by

Comparing the Frameworks (Simple)

Initial idea.

- the most naturally occurring discourse

when pronouns would correctly process

The question that must be addressed is

Unsuccessful.

Problematic examples -- clearly this is

Time problem is compounded for continuing

Initial text correctly

Framework is likely to process all discourse

Discourse-initial sentence and neither

I. It is very difficult to identify the focus of a

Two observations:

Import of Above Analyses
complex sentences
knowing how to handle each kind of
Doing a corpus analysis requires already
understanding

inferences
which

Challenges of Corpus Analysis (Cont.)

account for?

other influences might not one

Is the corpus one sufficiently

How often (if ever) does a discourse (like

discourse work)?

Difficult to isolate all factors that might be

needed to understand models. Needs experiemental

cannot easily show whether we should be doing

For determining how to handle complex

sentences. Inability to assign aspects and gather judgments.

Sentence-Neutral Text?

Why can't we just analyze constructed

sentence?

What should the focus of the sentences be after the

sentence?

When inferences are possible?

What information should be used to produce

Central Question: Should the clause of a

Sentence-Neutral Text?

applicable?

Sentences Of some other well-known

processing a sequence of isolated simple

order, resolving pronouns and inferring

Complex Sentence: Should the clause of a

Sentence-Neutral Text?

...NP? Embedded NP?

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Semantically Shaped Discourse

Non-Focus-based Factors: Semantic, world

- How specific elements are selected and intended
  
  sentence (e.g., "the use of a name, these, function, semantic, role of elements in the sentence)
  
  specific
- Which elements can occur and can be selected by each (e.g., the topic or each element)
- The role of S, N, and focus (e.g., new element)

Focus-based Factors (part of the framework)

Influences on Pronoun Resolution:

1. Test that extension using a corpus and analysis.
2. Test that the discourse is coherent and consistent.

Methodology (background)

Monitoring Pronoun Resolutions (S3) and Coherence (S2)
Subject focus of S2 should be.
Parameters help determine whether the text relations based on these dependencies matter (S2) and for Subject(S2).
Determining whether Subject(S2) co-refer.
In combination, parameters 2–4: Subject(S2) vs. Subject(SX) of S1.

Text Variations Parameters:

1. Whether Subject(SX) is ex-convict.
2. Whether Subject(SX) of S2 is the ex-convict.
3. Whether Subject(SX) is the ex-convict.
4. Whether Subject(SX) is the ex-convict.
5. Whether Subject(SX) was pronounced.
6. Whether DirectObject(SX) was pronounced.

Factors Involved in order to ease out how the various focusing

- Subject Pronouns

- Looking at "SX because SY" Sentences

1. "Should [Dodge] call this police?"
2. [Dodge] entered the ex-con because the
   ex-con was so stupid and clumsy.
3. Then [Dodge] called the police.
4. "How should Subject(SX) be resolved?"
5. How should Subject(SX) or Subject(SX) be resolved?
6. How should Subject(SX) co-refer?"
7. How should Subject(SX) be resolved?
8. How should Subject(SX) or Subject(SX) be resolved?

In order to answer these questions, we must make

Subject(SX)?

- Subject Pronouns

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SHOW SAMPLS AND RESULTS

Here: akward or ambiguous would support
Specific(s) Subject(S) X
Pronouns, and

2. Discourses where semantic-linguistic AND

Here: acceptable would support
Specific(s) Subject(S) X
Pronouns, and

1. Discourses where the semantic-linguistic

Test this with two kinds of discourses:

Specific(S) X
Pronouns, and

Readers prefer to resolve Specific(S) X
with

Specific(S) X
Pronouns, and

Readers prefer to resolve Specific(S) X
with

Specific(S) X
Pronouns, and

Readers prefer to resolve Specific(S) X
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Specific(S) X
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