

Constraining Cognitive Interpretation by Tracking Filmic Cohesive Chains

Chiaoi Tseng & John Bateman

University of Bremen

GEFÖRDERT VOM



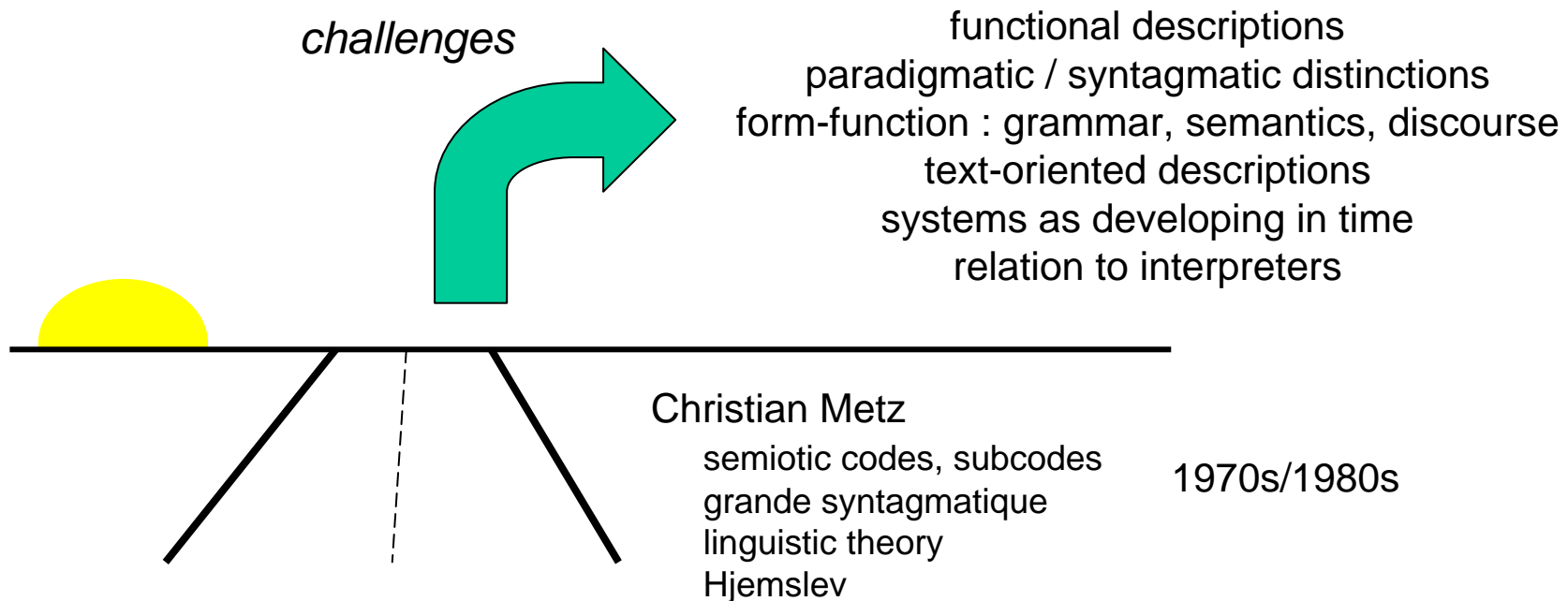
Bundesministerium
für Bildung
und Forschung

Outline of Talk

- Theoretical orientation, methods, goals: where we are coming from
- Discourse and Film: selected areas of discourse 'work'
- Towards empirical investigation
 - Cohesive Analysis of *Memento*
 - Experimental manipulation
 - Experimental results
- Conclusion, outlook, questions for discussion

Where we are coming from:

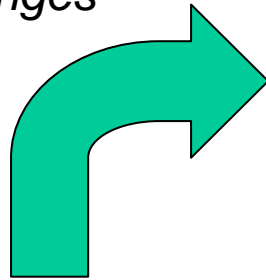
The rift between film studies and linguistically-inspired approaches



The rift between film studies and linguistically-inspired approaches

1980s: Chomskyan linguistics

challenges

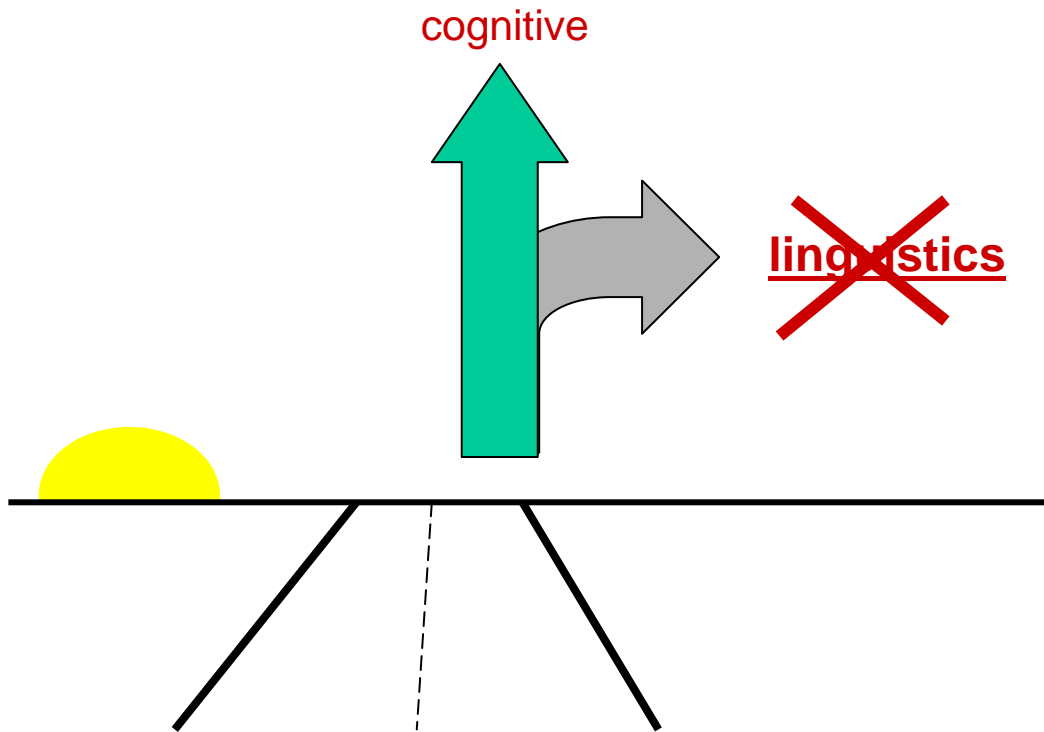


~~functional descriptions~~
~~paradigmatic / syntagmatic distinctions~~
 form-function : grammar, semantics, ~~discourse~~
~~text-oriented descriptions~~
~~systems as developing in time~~
 relation to interpreters: **cognitive**

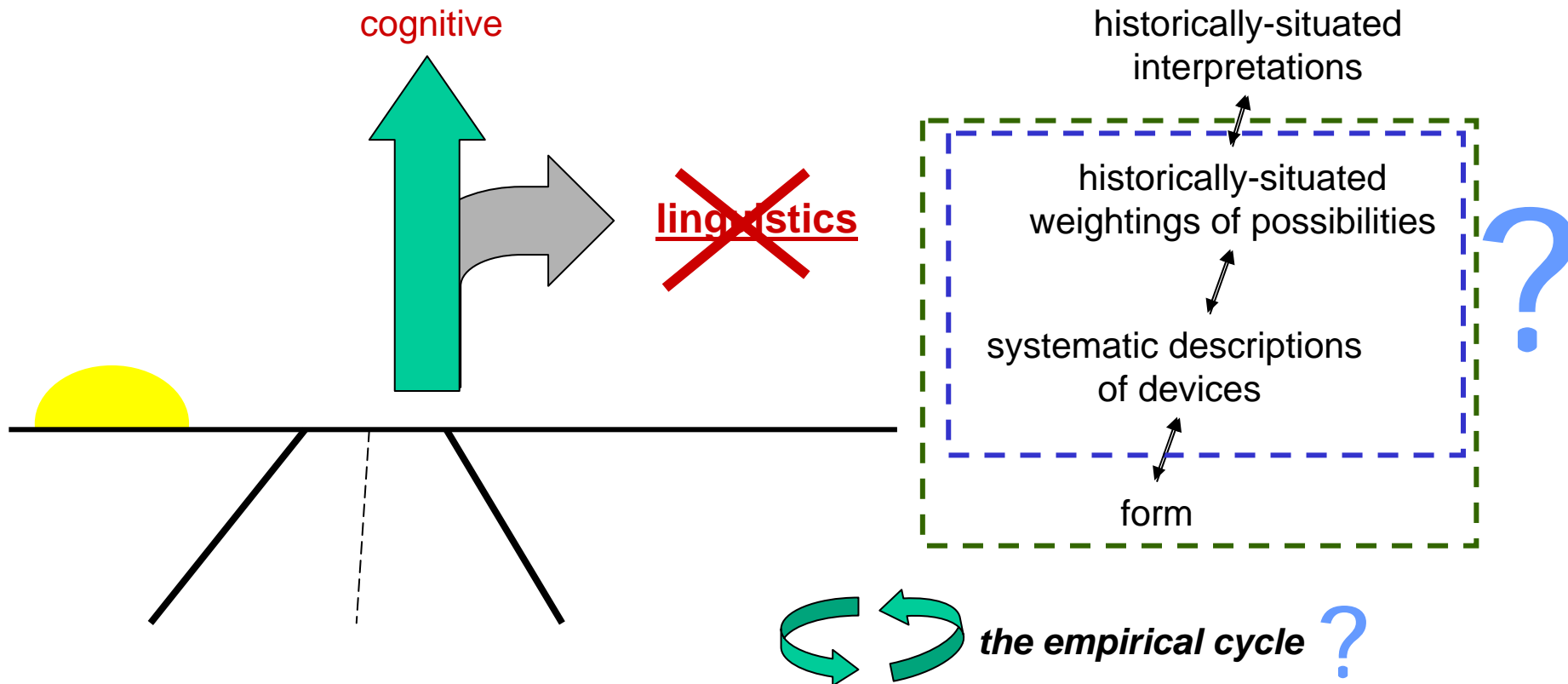
Christian Metz

semiotic codes, subcodes
 grande syntagmatique
 linguistic theory
 Hjemslev

The rift between film studies and linguistically-inspired approaches



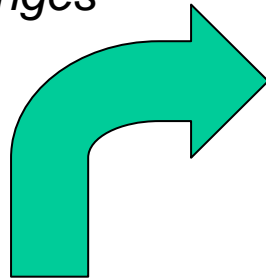
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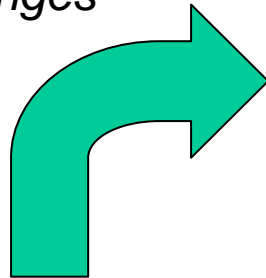
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The rift between film studies and linguistically-inspired approaches

1980-2000s: Functional linguistics

challenges

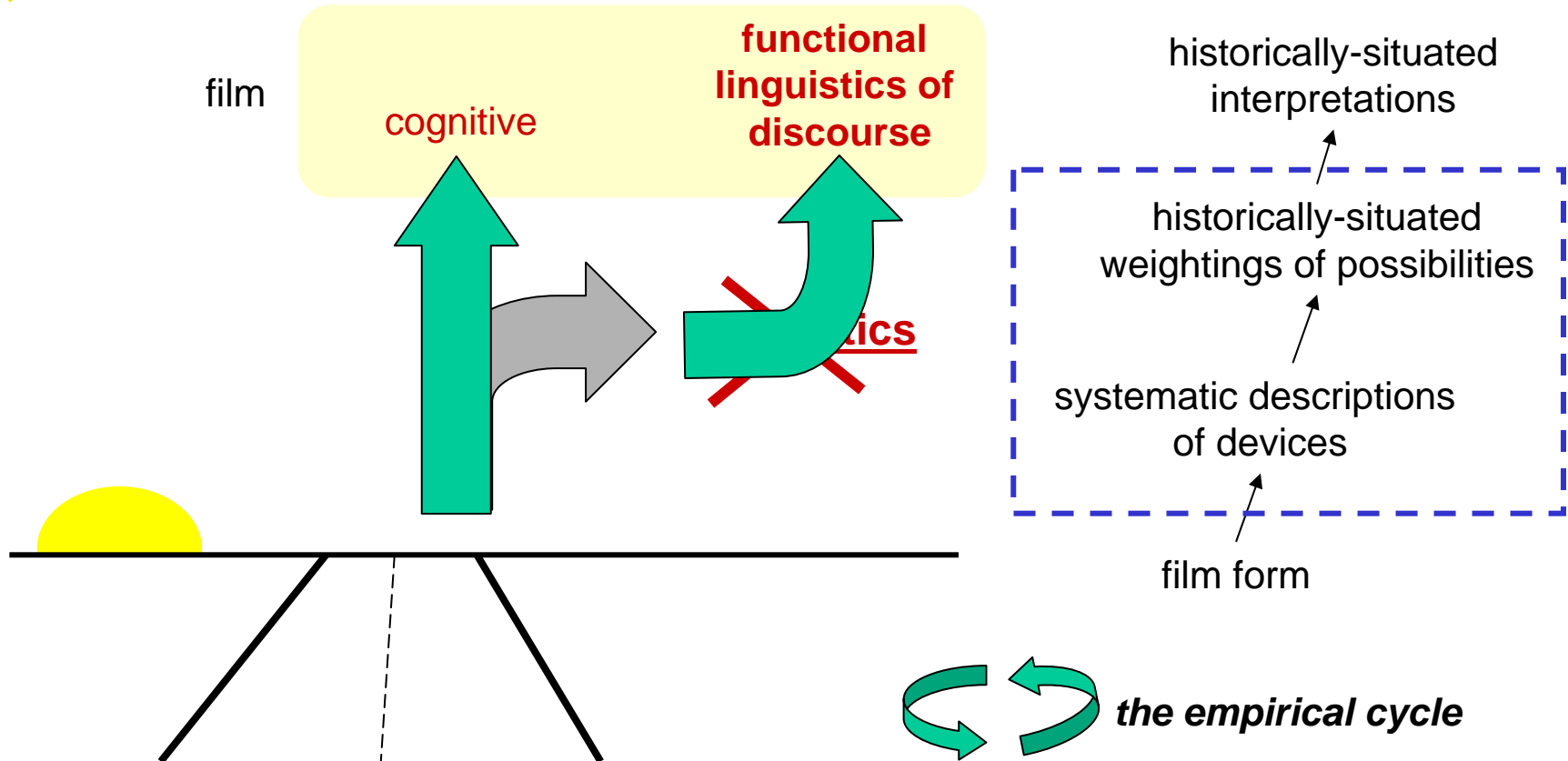


functional descriptions
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form-function : grammar, semantics, discourse
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relation to interpreters: ~~cognitive~~

Michel Colin (1989):

“In contrast to the generative theory—which . . .
‘lacks a consideration of discourse’—a
‘generative semiology’ of film must have as its
object to account for film as discourse.”

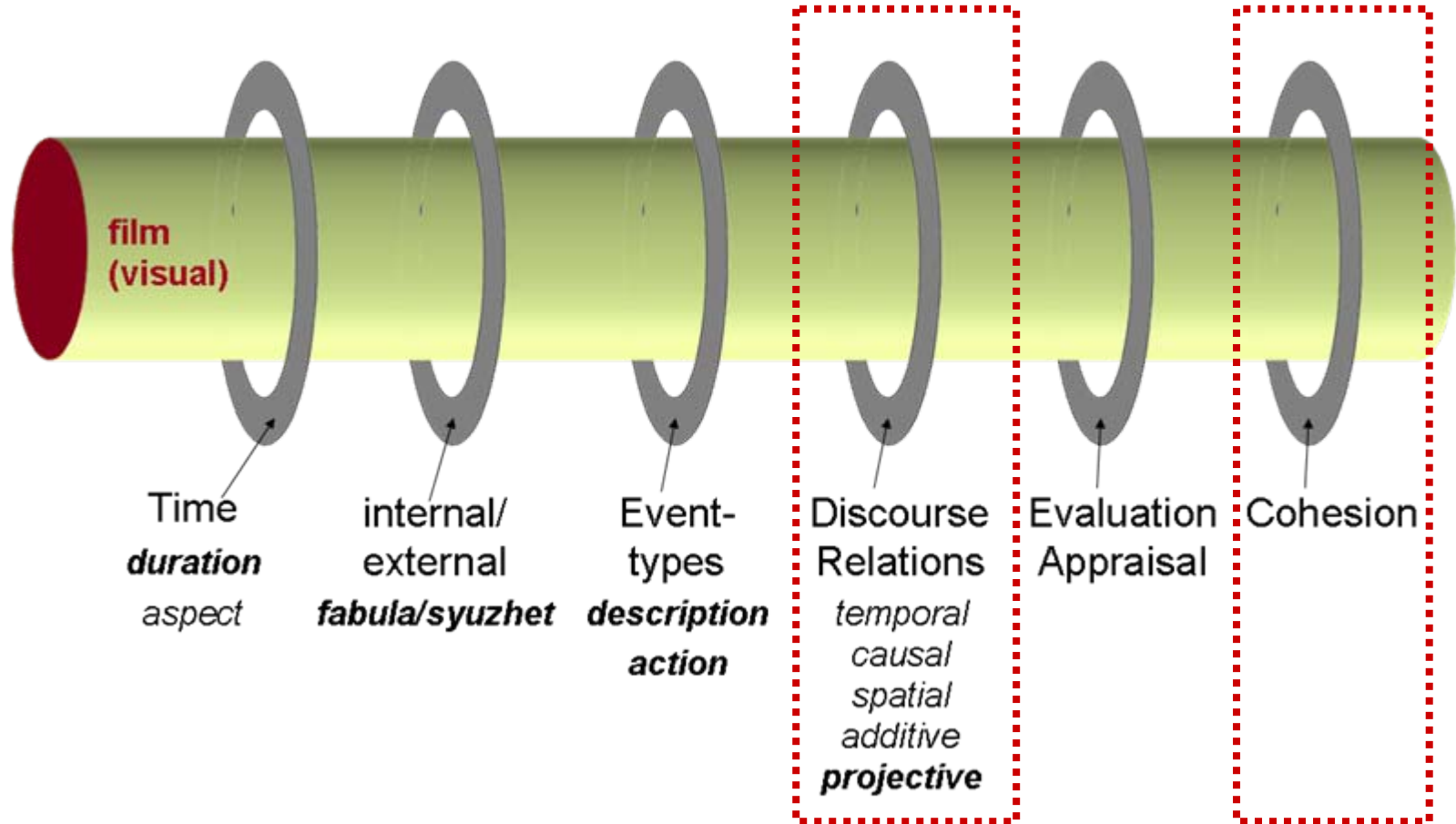
The rift repaired?



Method

- Characterising functionally-relevant distinctions potentially relevant for film as **paradigmatic** networks of choice
- Drawing these from areas we know from functional linguistics are operative for **discourse construction**
- Specifying the **filmic devices** by which such choices can be recognised
- **Analysing** film segments in terms of the features selected
- Exploring **differences in the possibilities** of the distinct modes
- Exploring regularities, variation over time, variation over interpretative effects **empirically**

Areas of discourse semantics that appear applicable to film

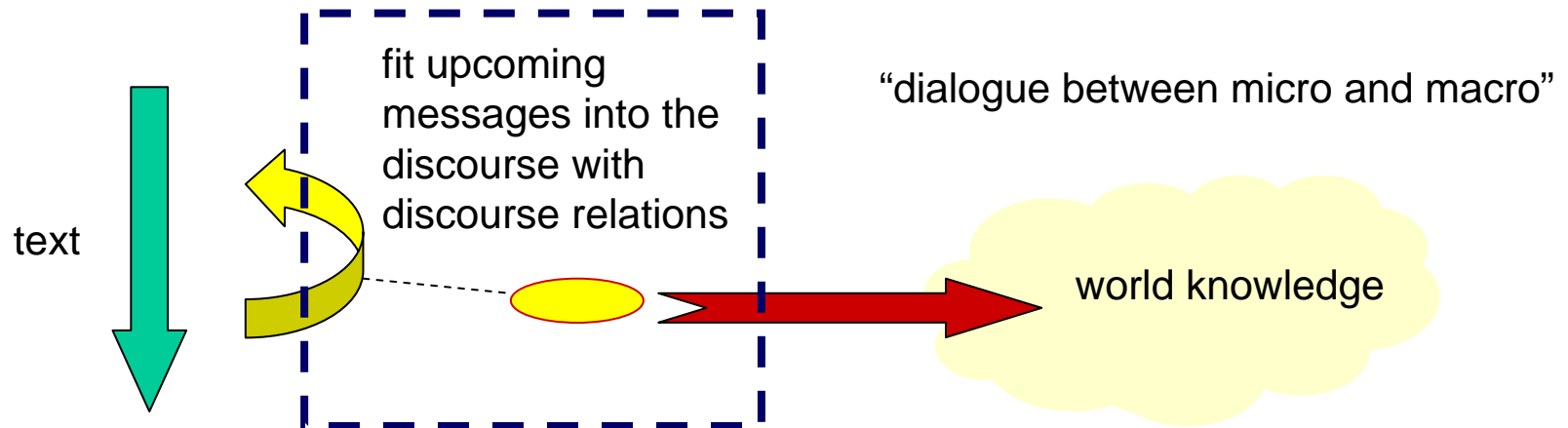


Two example areas selected: Discourse relations & Filmic cohesion

- **Discourse relations in film** (Bateman, 2007)
 - relations between film segments in terms of temporality, spatiality, epistemic status, ...
 - discourse structures constructed by these relations
- **Cohesive reference in film** (Tseng, 2008).
 - How characters, objects and settings in coherent film narratives are presented and presumed
 - cohesive chains constructed by these ties

Role of discourse configurations

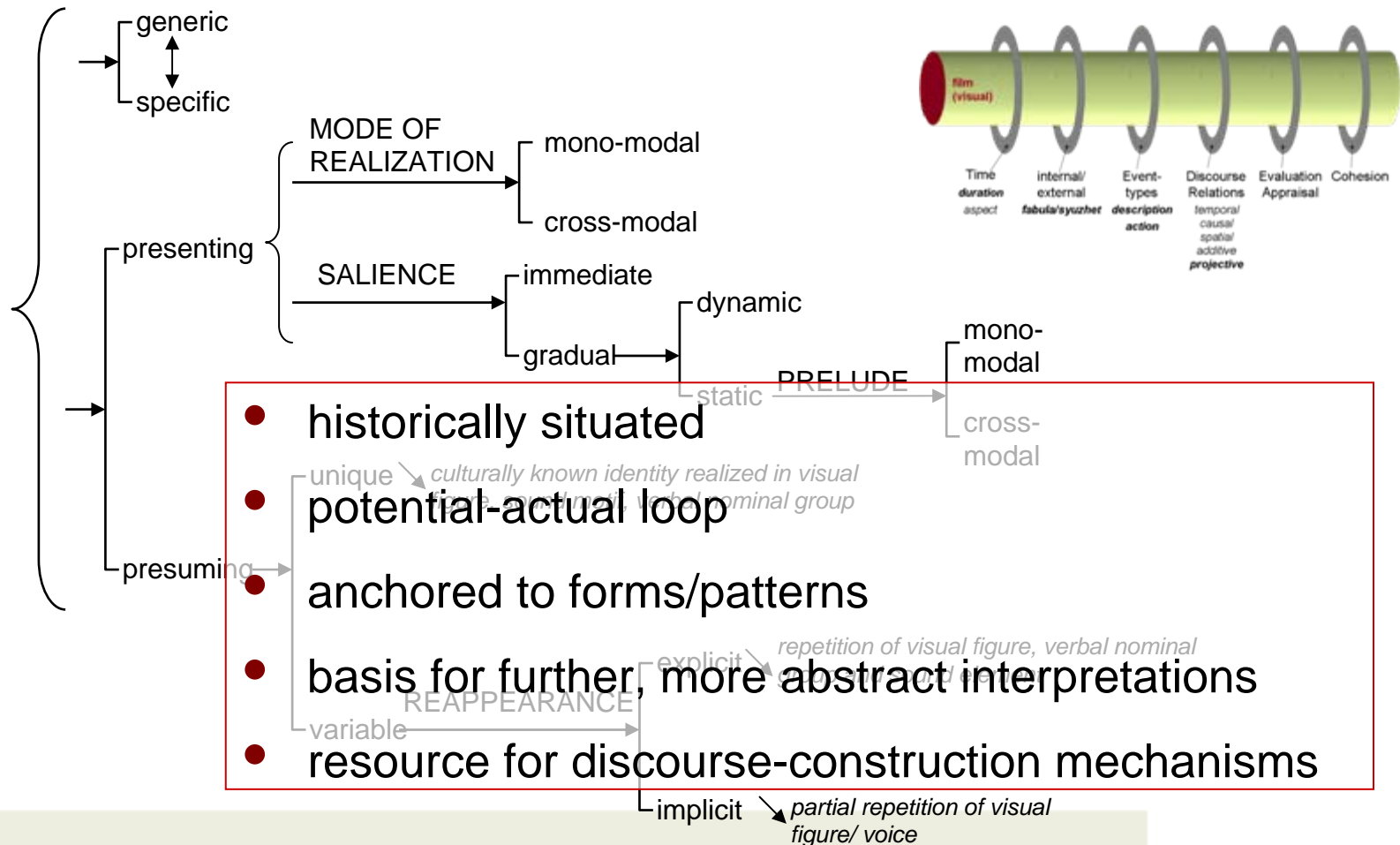
- To mediate between the form and most likely ranges of interpretation



- The discourse relation rules guide **when and how** world knowledge is considered in the interpretation process

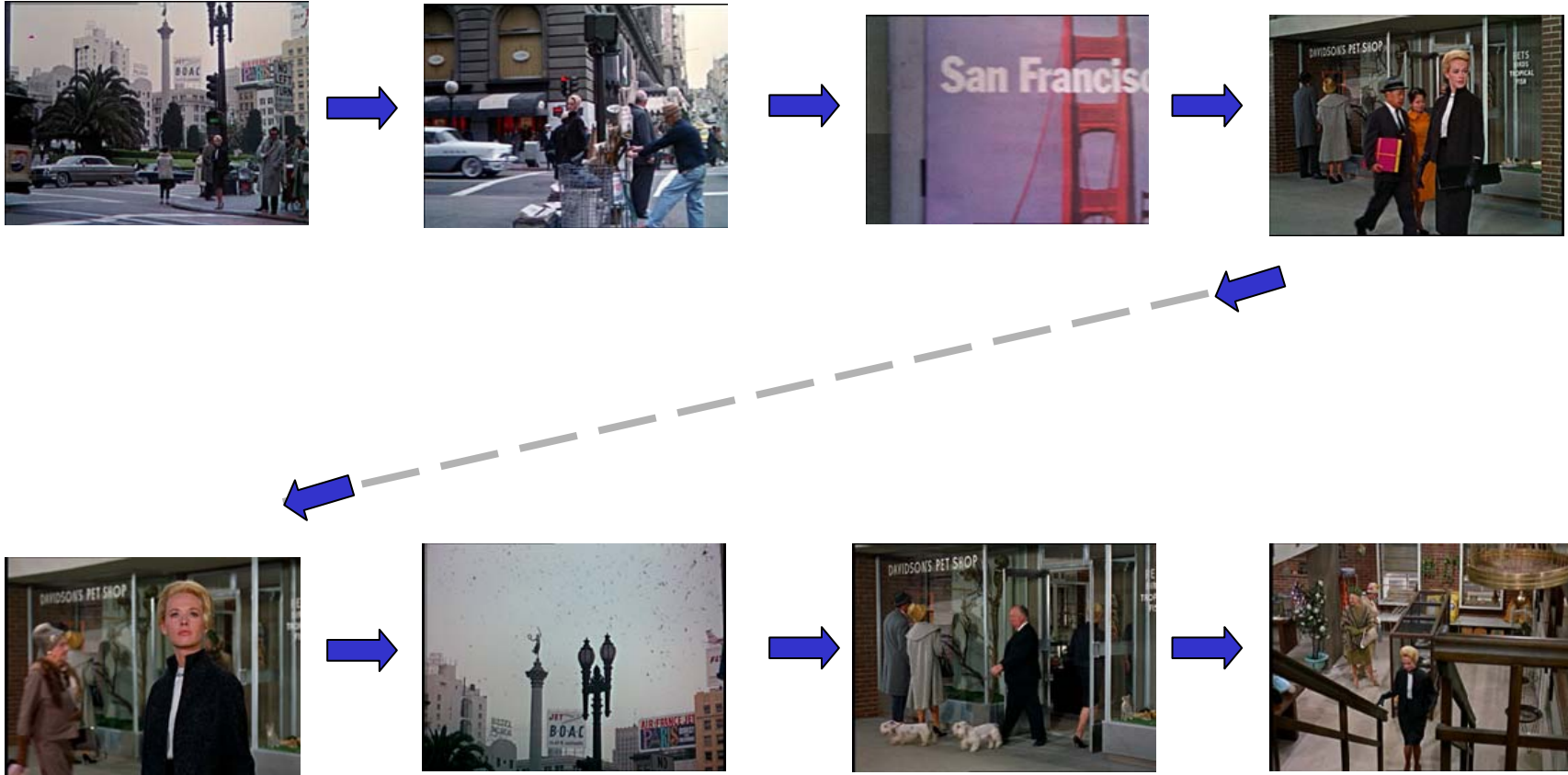
Example: Cohesion

Paradigmatic systems of filmic identification

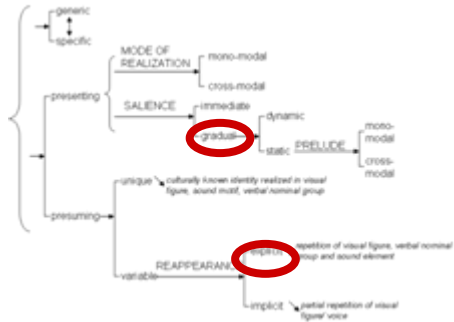


Tracking identities of characters, objects and settings

Example: the beginning of *The Birds*



The cohesive chain of *Melanie*



Melanie

[presenting: gradual salience]



[presuming: explicit ↘ face reappearance]



The cohesive chain of setting (a) – *San Francisco street/city view*

setting (a):
SF street view



[presenting:
immediate salience]



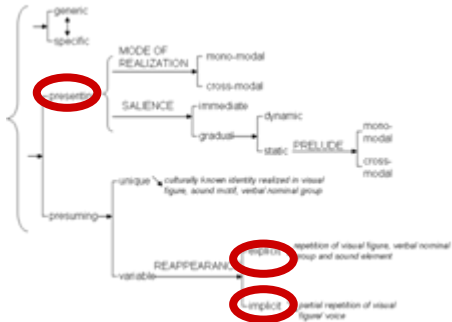
[presuming: unique]



[presuming: explicit
reappearance]



The cohesive chain of setting (b) – Petshop



setting (b):
petshop

[presenting
Davidson's
petshop]

[presuming: explicit
reappearance]

[presuming: implicit
reappearance
match on action]

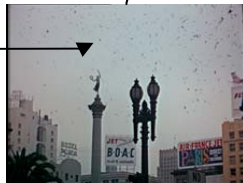


The cohesive chain of *birds*

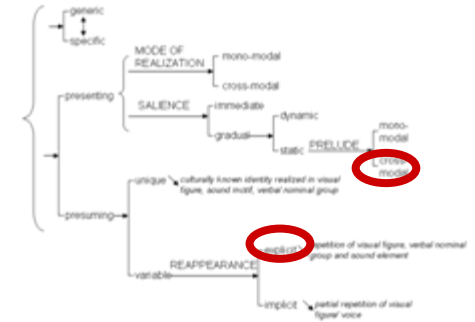
birds

squawking
sounds

[presenting: gradual
salience with audio
PRELUDE]



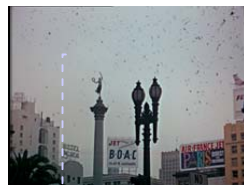
[presuming: sound reappearance
↳ *bird chirping*]



chirping
sounds



The cohesive chain of *general people*



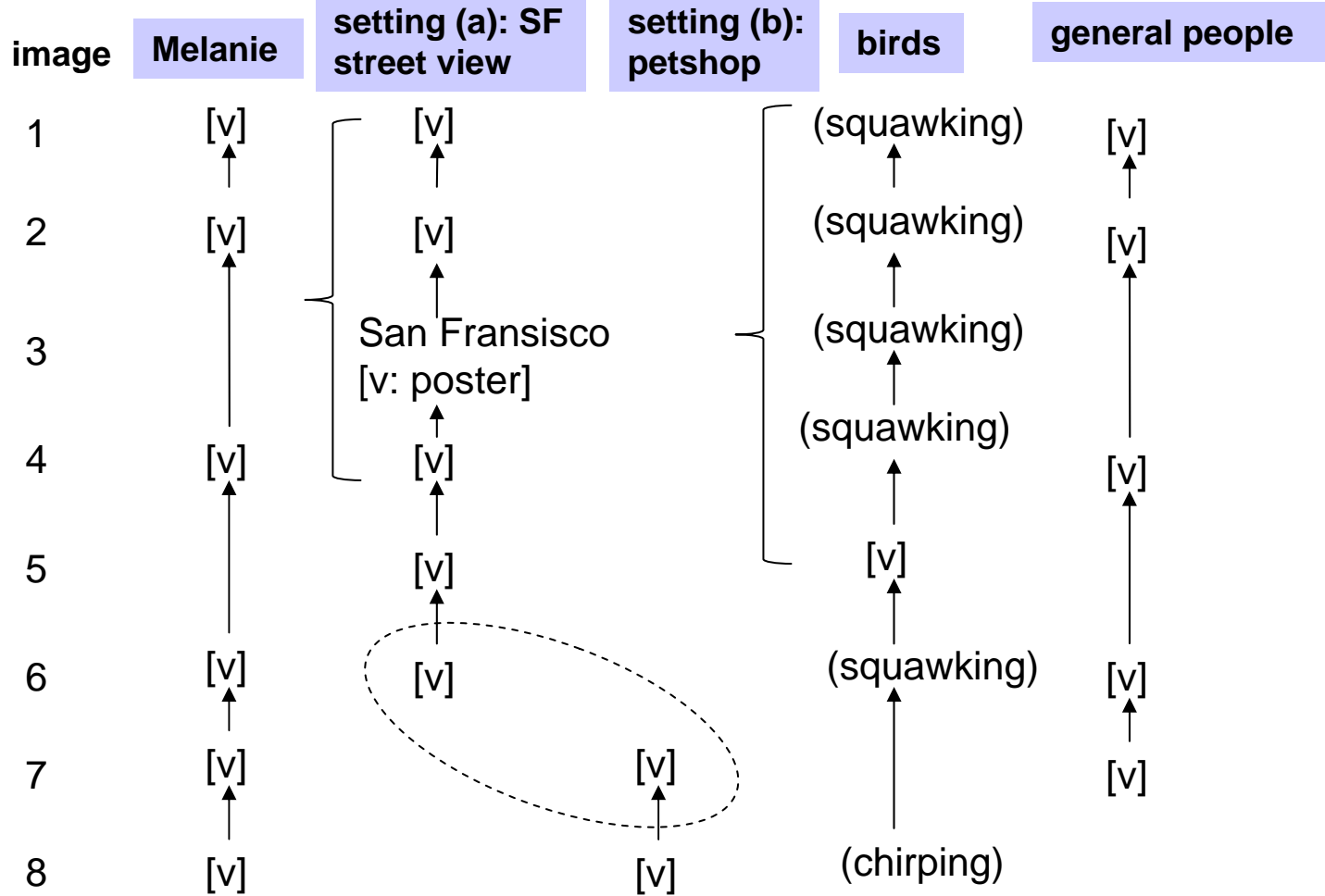
general people

[presenting: immediate salience]

[presuming: explicit reappearance]

chirping
sounds

Cohesive chains of the beginning of *The Birds*



Empirical Phase

- Not sufficient to simply describe cohesive chains
- Necessary also to show that the features being picked out are **functional** in terms of the interpretative activity of viewers
- If they:
 - are, then their use is supported
 - are not,
argues against particular functional distinctions in our description

Exploratory Study: *Memento*

Hypothesis

- Despite *Memento*'s well-known achronological sequencing, viewers should in fact have relatively little difficulty 'following' the film because sufficient clues via explicitly signalled cohesive chains maintain interpretability and avoid disorientation.

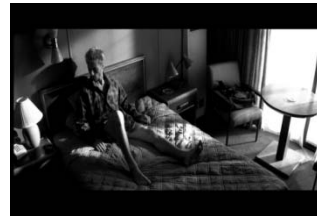
Method

- Alternative versions of the beginning sequence were constructed varying according to the variables of cohesive ties and temporal sequencing
- Participants (n=29) watched one of the prepared sequences and answered a questionnaire about what they had seen

The first four sequences of *Memento*



S1: colour



S2: B&W

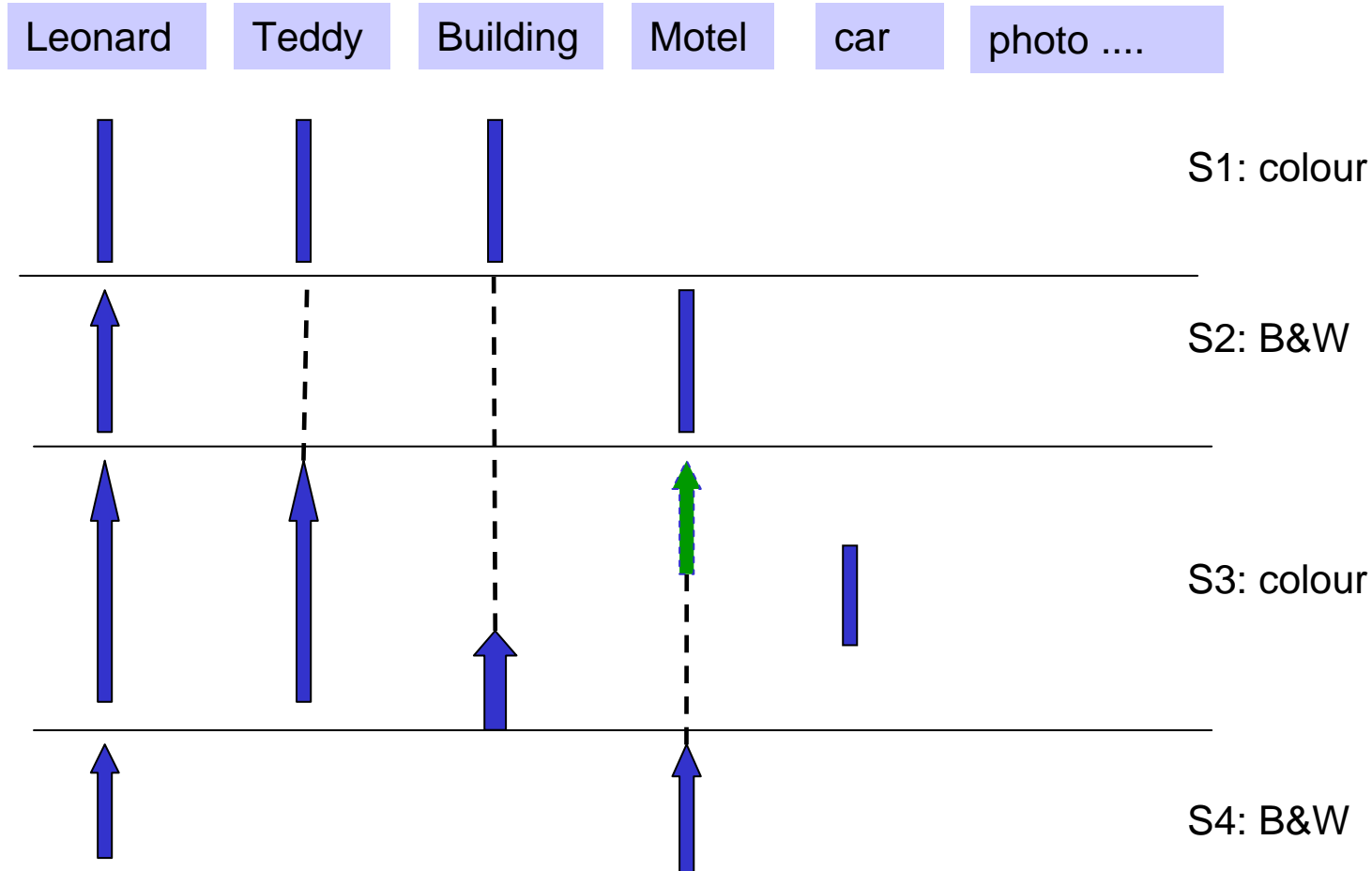


S3: colour

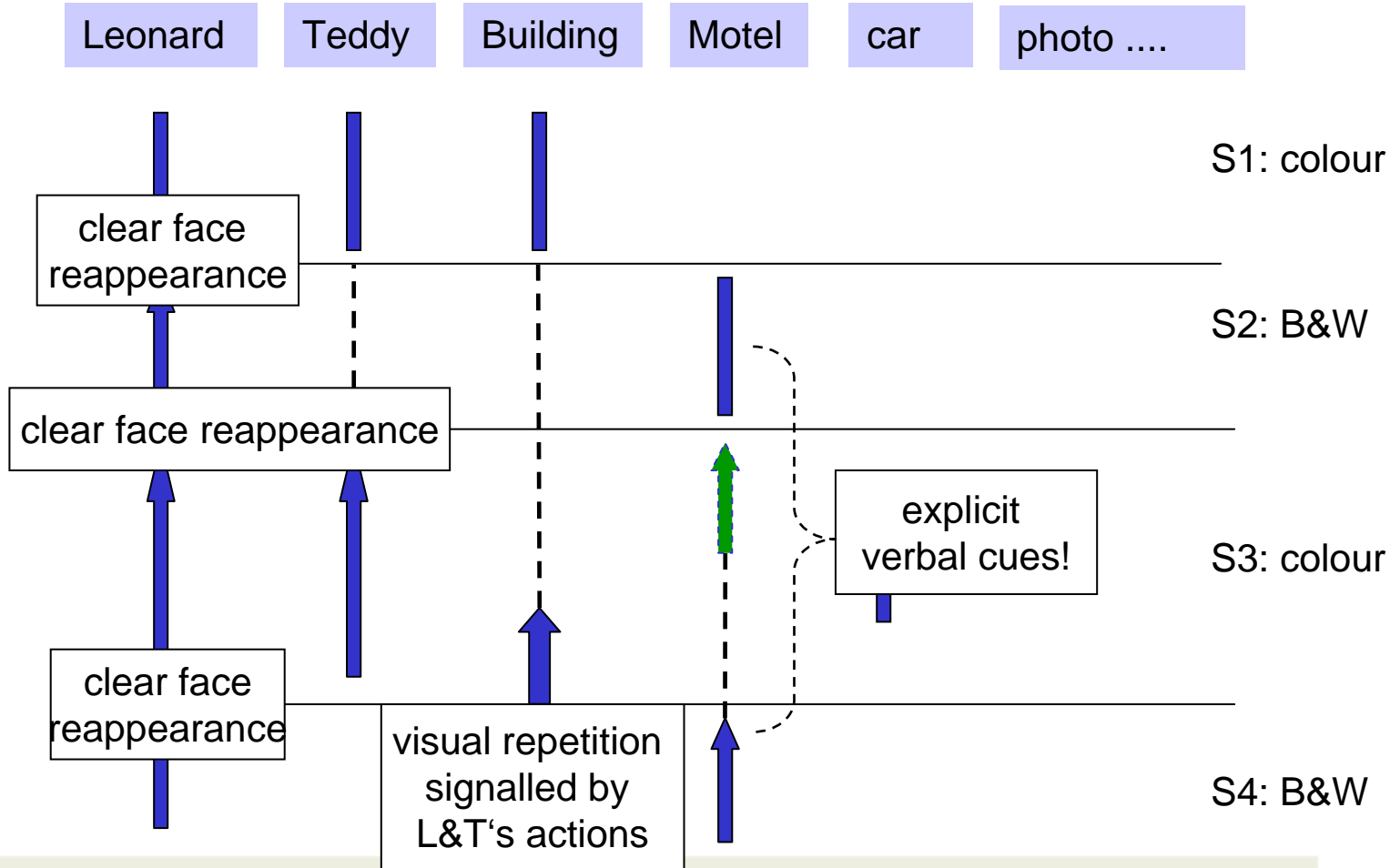


S4: B&W

Patterns of cohesive chains in the first four sequences of *Memento*



Functional cues available for viewers' interpretation of cohesive ties



Verbal cues functioning for creating the cohesive chain of *Motel*

'So, where are you? You are in a motel room'



'It's an anonymous room'.



S2: B&W



Discount Inn



S3: colour

'It's an anonymous room'



S4: B&W

Viewers' interpretation of ties along the cohesive chain of *Motel*

'So, where are you? You are *in a motel room.*'



It's an *anonymous room.*



S2: B&W

Discount Inn



S3: colour

'It's an *anonymous room.*'



S4: B&W

Experimental Hypothesis

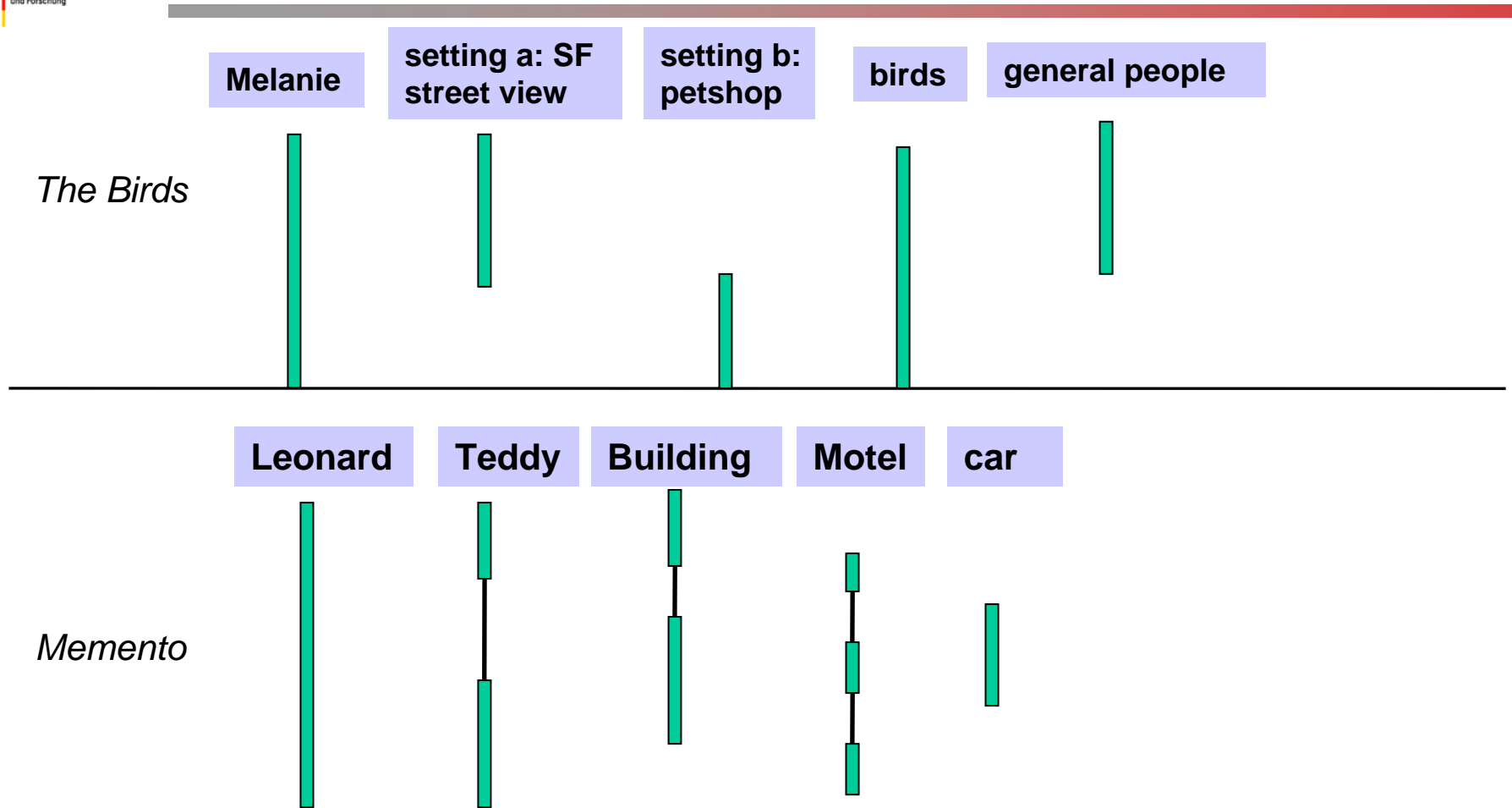
Either

1. *chronological cues*, or

2. *cohesive identity cues*

will operate to guide viewers
narrative interpretation.

Comparison: general patterns of cohesive chains in *Memento* and in *The Birds*



Experiment– variable 1: Manipulating chronological order

*original:
achronological*



S1

colour



S2

B&W



S3

colour



S4

B&W

chronological



S2

B&W



S4

B&W



S3

colour



S1

colour

Experiment—variable 2: manipulating cohesive chains

So, where are
you? *You are in
a motel room.*



*It's an anonymous
room.*



S2: B&W

Discount Inn



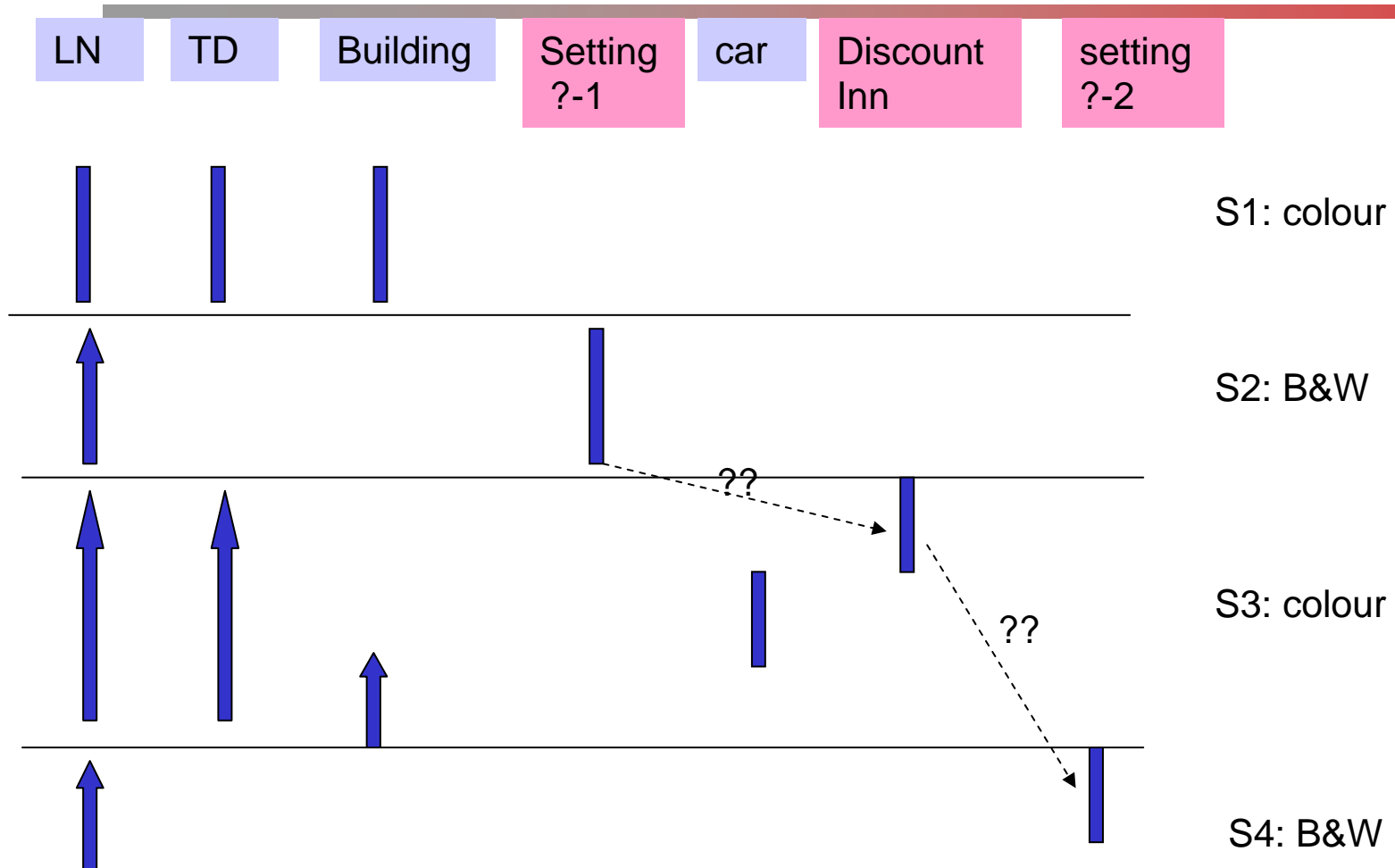
S3: colour

It's an anonymous room.



S4: B&W

Chains in *Memento* without the cohesive ties in the MOTEL chain



Experiment : 2 x 2 design



S1



S2



S3



S4

LN

TD

Building

Motel

car

1. achronological + cohesive cues

2. chronological + cohesive cues



S2



S4



S3



S1

LN

Motel

TD

car

Building



S1



S2



S3



S4

LN

TD

Building

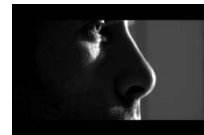
setting
?-1

car

setting
?-2

3. achronological + NO cohesive cues

4. chronological + NO cohesive cues



S2



S4



S3



S1

LN

setting
?-1setting
?-2

TD

car

Building

Experiment : 2 x 2 design

Prediction:

- if chronological development **and** cohesion is disrupted, interpretability will be compromised

1. achronological + cohesive cues	3. achronological + NO cohesive cues
2. chronological + cohesive cues	4. chronological + NO cohesive cues

Q3: What is/are the setting(s)/places of the **black-and-white** scenes?
(e.g., in a restaurant, in the airplane, in a kitchen, etc.)

multiple responses to Q3: chi-square = 14.58, df = 3, p = .002

Experiment : 2 x 2 design

Prediction:

- if chronological development **and** cohesion is disrupted, interpretability will be compromised

1. achronological + cohesive cues	3. achronological + NO cohesive cues
2. chronological + cohesive cues	4. chronological + NO cohesive cues

Q3: What is/are the setting(s)/places of the **black-and-white** scenes?
(e.g., in a restaurant, in the airplane, in a kitchen, etc.)

accuracy of responses to Q3: chi-square = 8.47, df = 3, p = .037

Conclusion and outlook

- Preliminary support for the role of cohesive ties in guiding viewers' interpretations
 - Mediates between text-based and recipient-based accounts
 - Discourse semantics and functional linguistics appear useful grounds for theorization
 - Systemic generation of hypotheses for 'significant effects' to be investigated empirically
 - Suggests a beneficial re-linking of empirical methods, functional descriptions and film studies
-
- Currently exploring distinctive patterns of such ties across genres and periods

Open Issues

- just what discourse mechanisms also play a role for film and how does the medium shape them?
- are there areas that do **not** work discursively?
- many distinct possibilities for constructing patterning:
 - some may be directly recognised, some not.
 - a continuum?
- detailed analysis allows focus independently of individual viewers
- narrative: instrument for constructing 'mind', 'narrators', etc.:
discourse: the instrument for constructing discourse?
- "All things being equal, an explicit theory is to be preferred to an implicit theory"...: what about 'text' / 'film' itself as discursive artefacts?
- convergence/divergence