

DGFS-CNRS Summer School on Linguistic Typology

LEXICAL TYPOLOGY

Peter Koch (Part II)

Department of Romance Studies, Tübingen University

peter.koch@uni-tuebingen.de

<http://homepages.uni-tuebingen.de/peter.koch/index.htm>

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6. Lexical motivation: basics

Lexical motivation (C.): **quality** of the **sign relation**

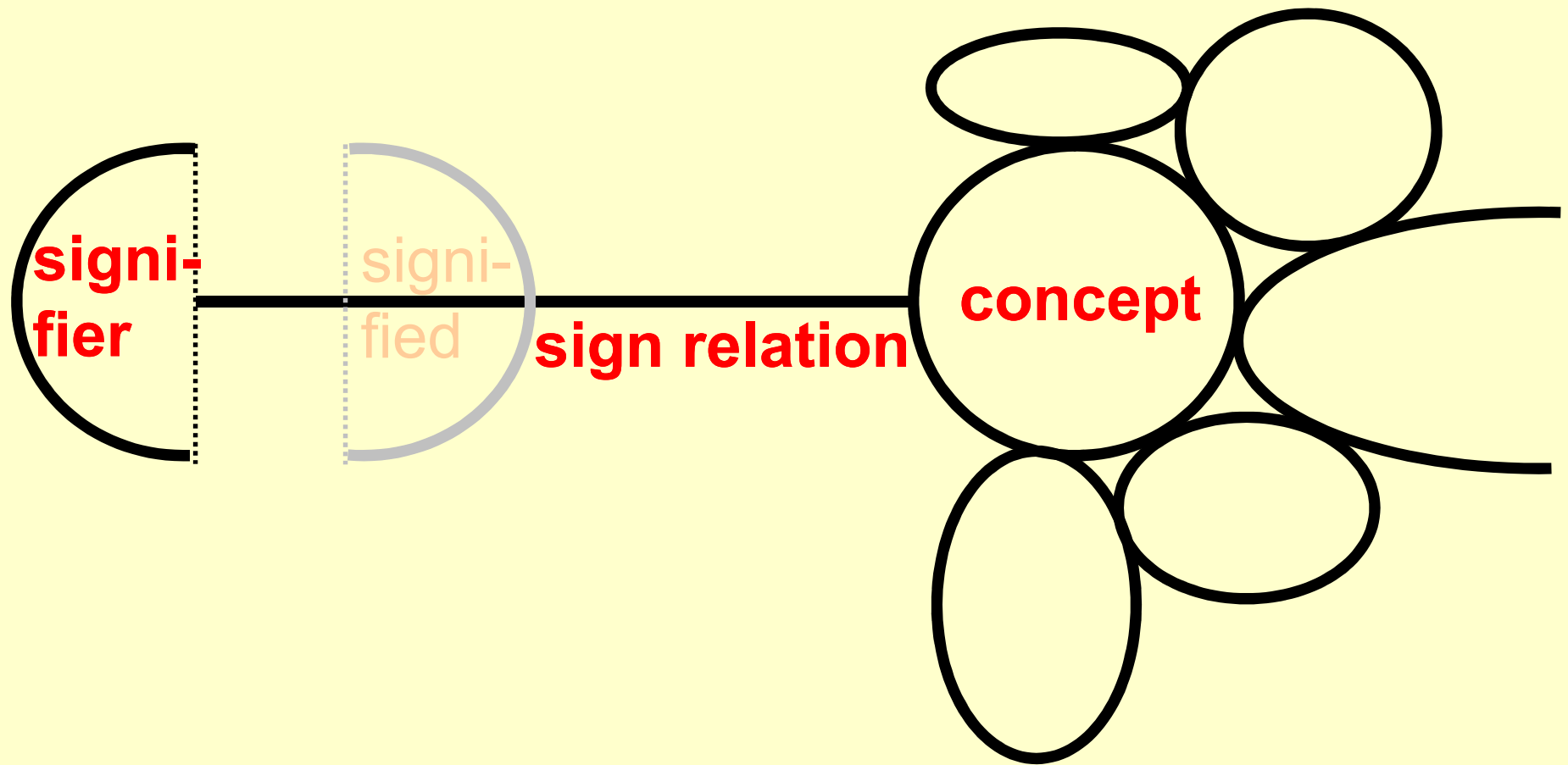


Fig. 30

6. Lexical motivation: basics

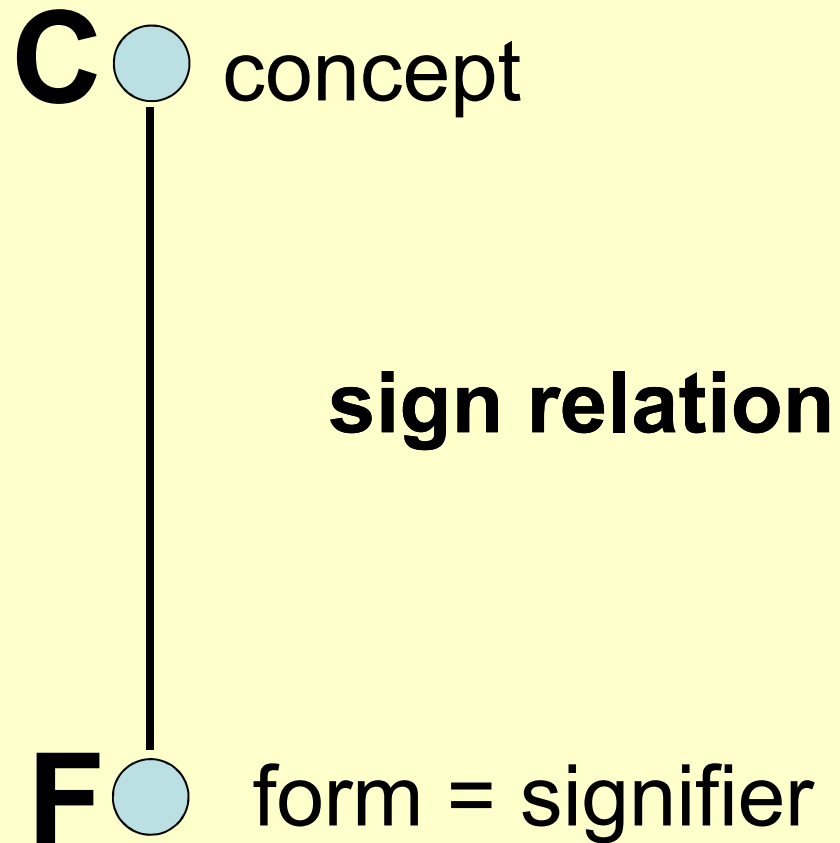
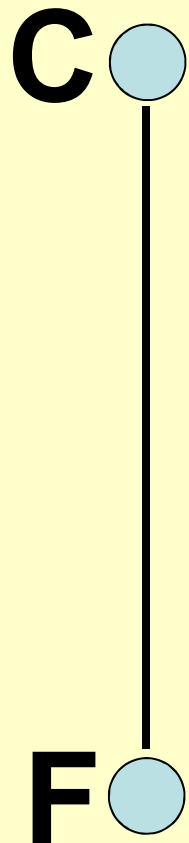


Fig. 31

6. Lexical motivation: basics



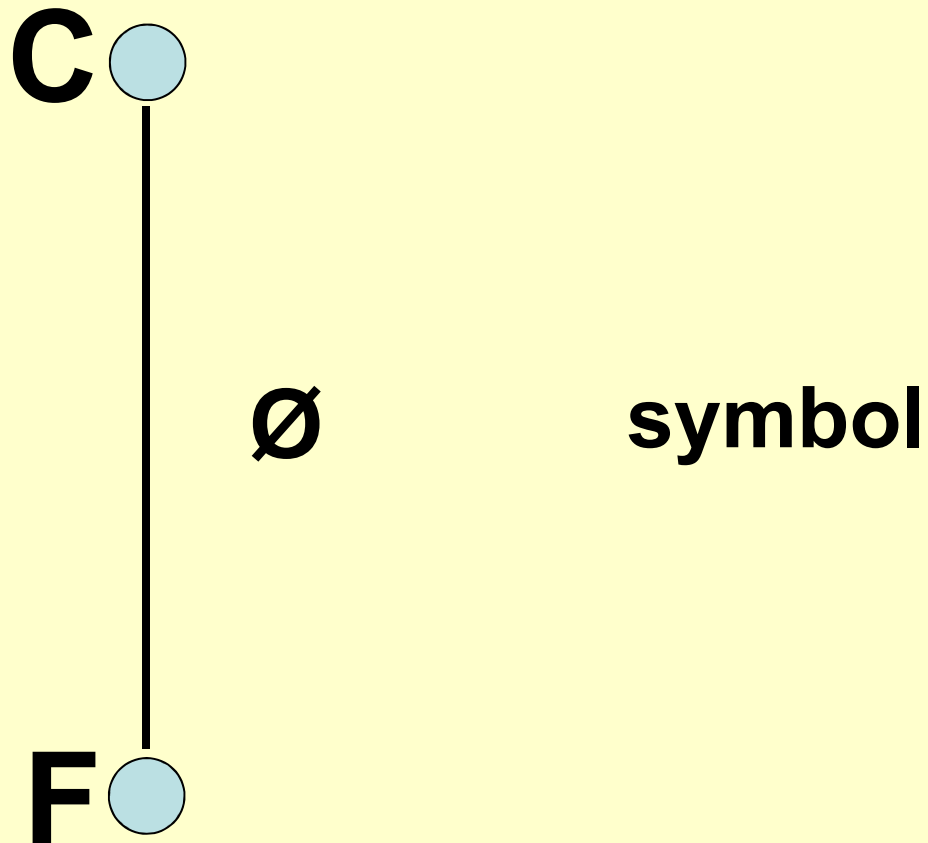
**quality of
the sign relation**

**→ motivation
of signs**

- Plato, *Kratylos*
- Peirce 1902
- Saussure 1916
- Benveniste 1966
- Ullmann 1966
- Keller 1998
- Ungerer 2002
- Radden/Panther 2004

Fig. 32

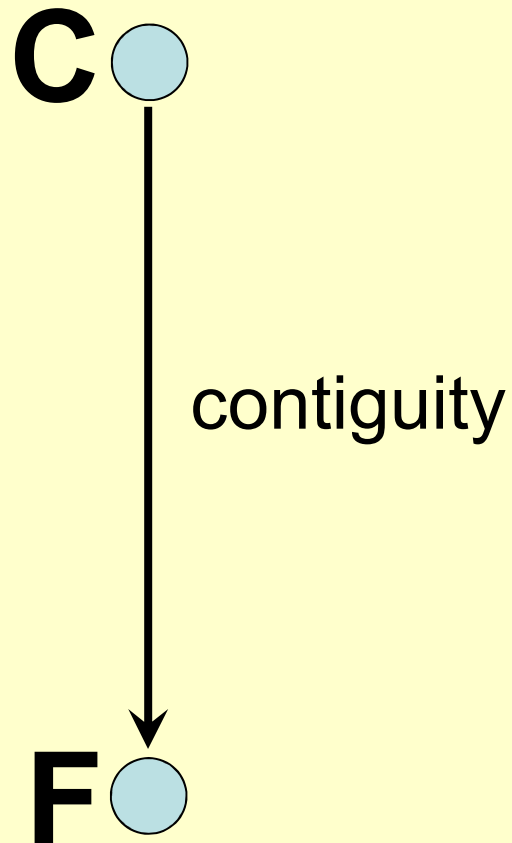
6.1. Symbol, index, icon



(cf. Peirce 1902)

Fig. 36

6.1. Symbol, index, icon

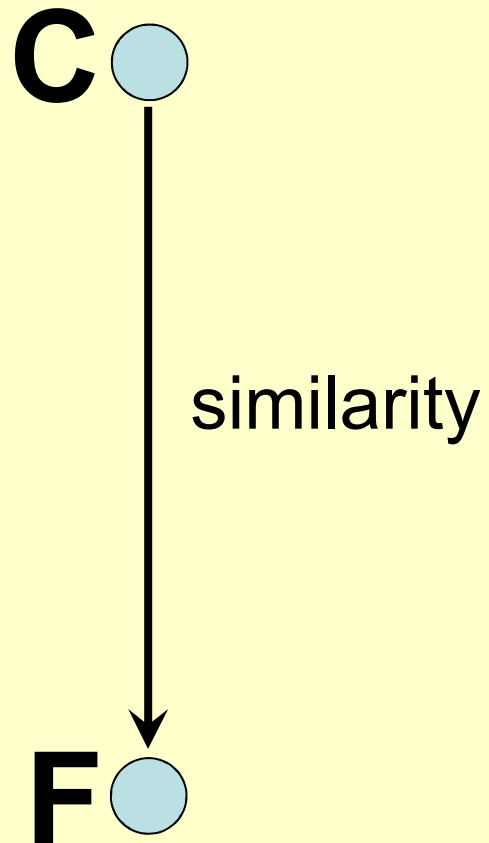


index

type of **C-F** motivation

Fig. 38

6.1. Symbol, index, icon



icon

type of **C-F** motivation

Fig. 40

Types of (relative) lexical motivation according to
Saussure 1916:

- onomatopœia
- word-formation

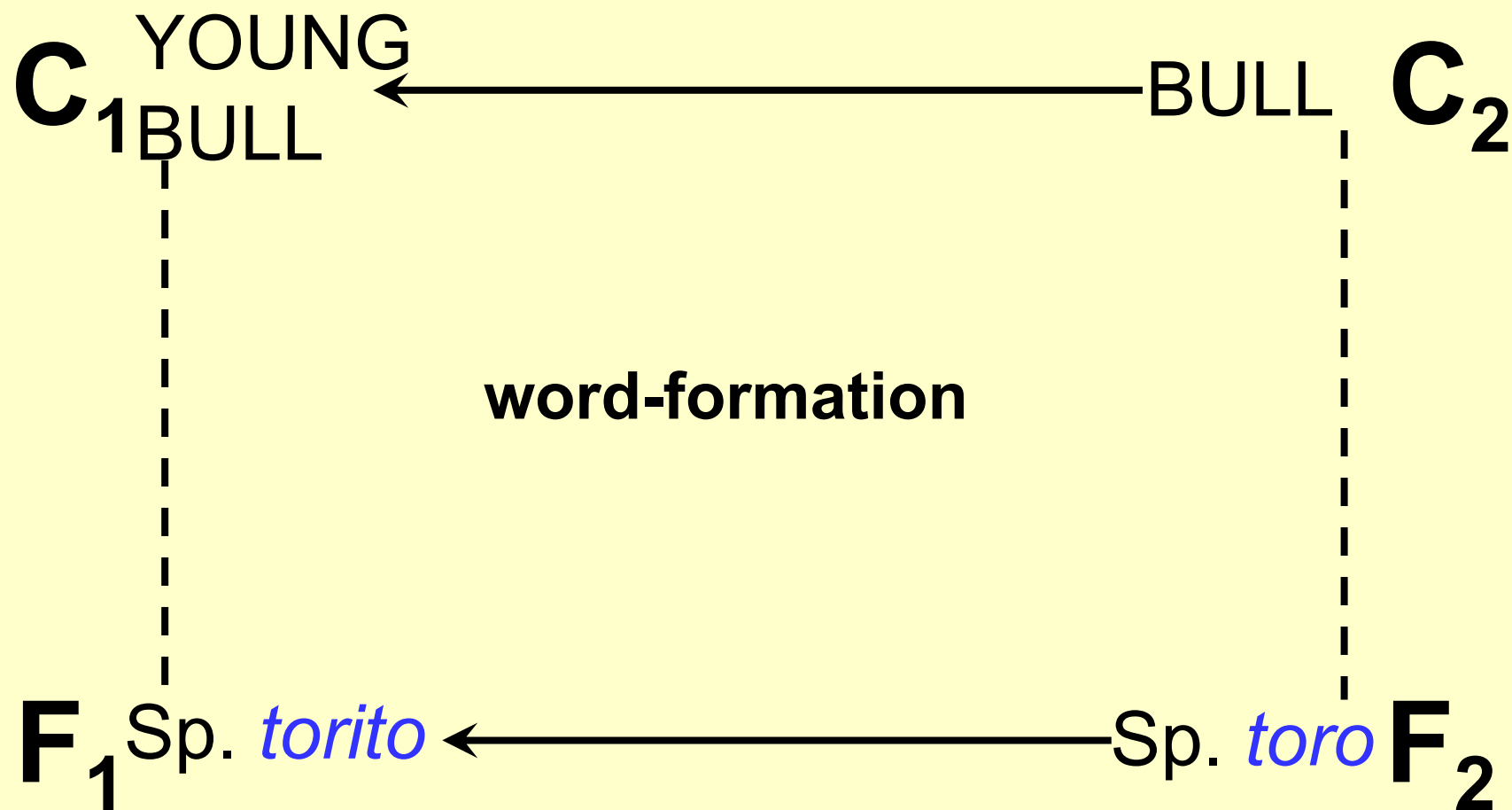


Fig. 41

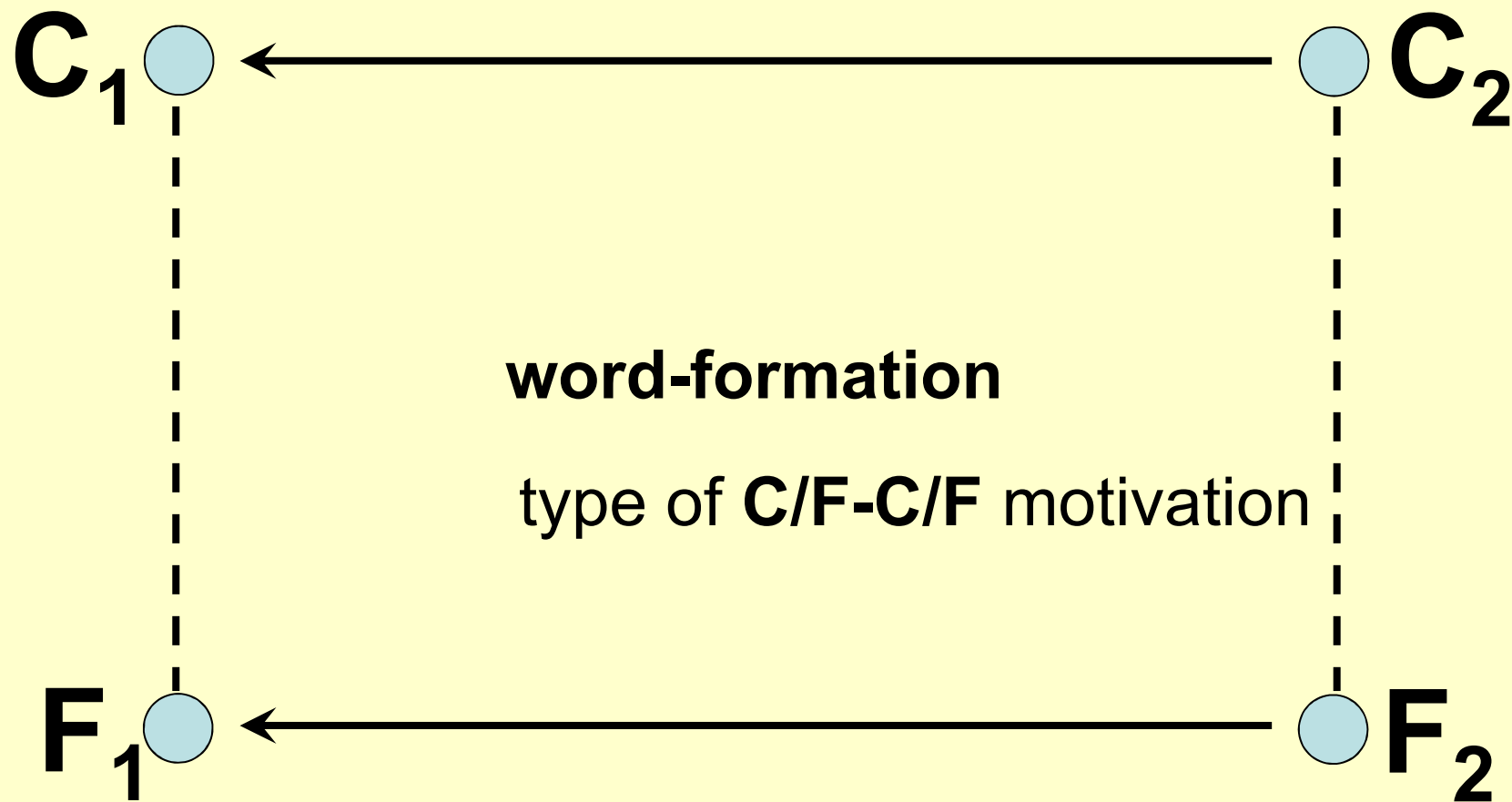


Fig. 42

Types of (relative) lexical motivation according to
Ullmann 1966:

- onomatopœia (‘phonetic’ motivation)
- word-formation (‘morphological’ motivation)
- metaphor, metonymie (‘semantic’ motivation)

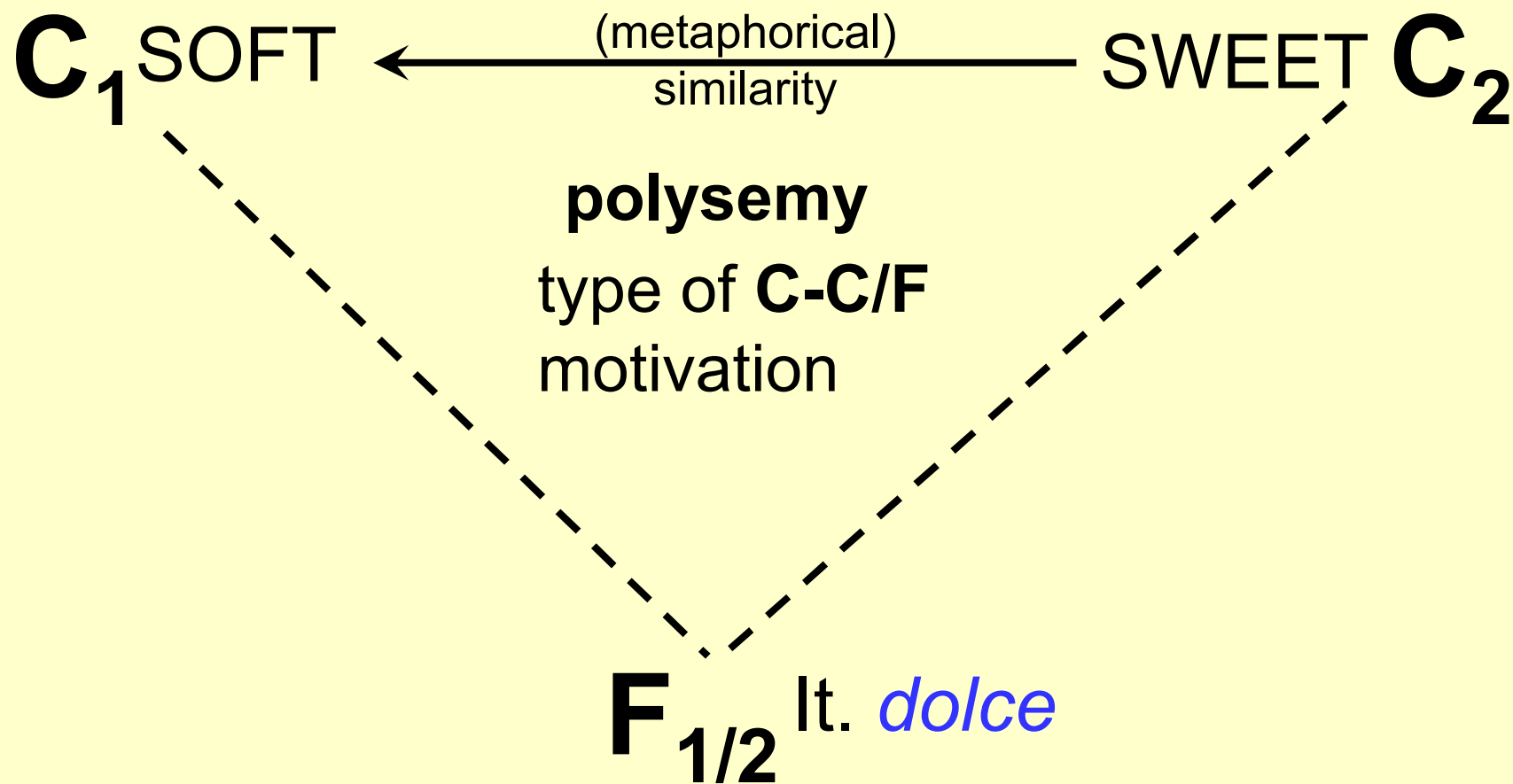


Fig. 43

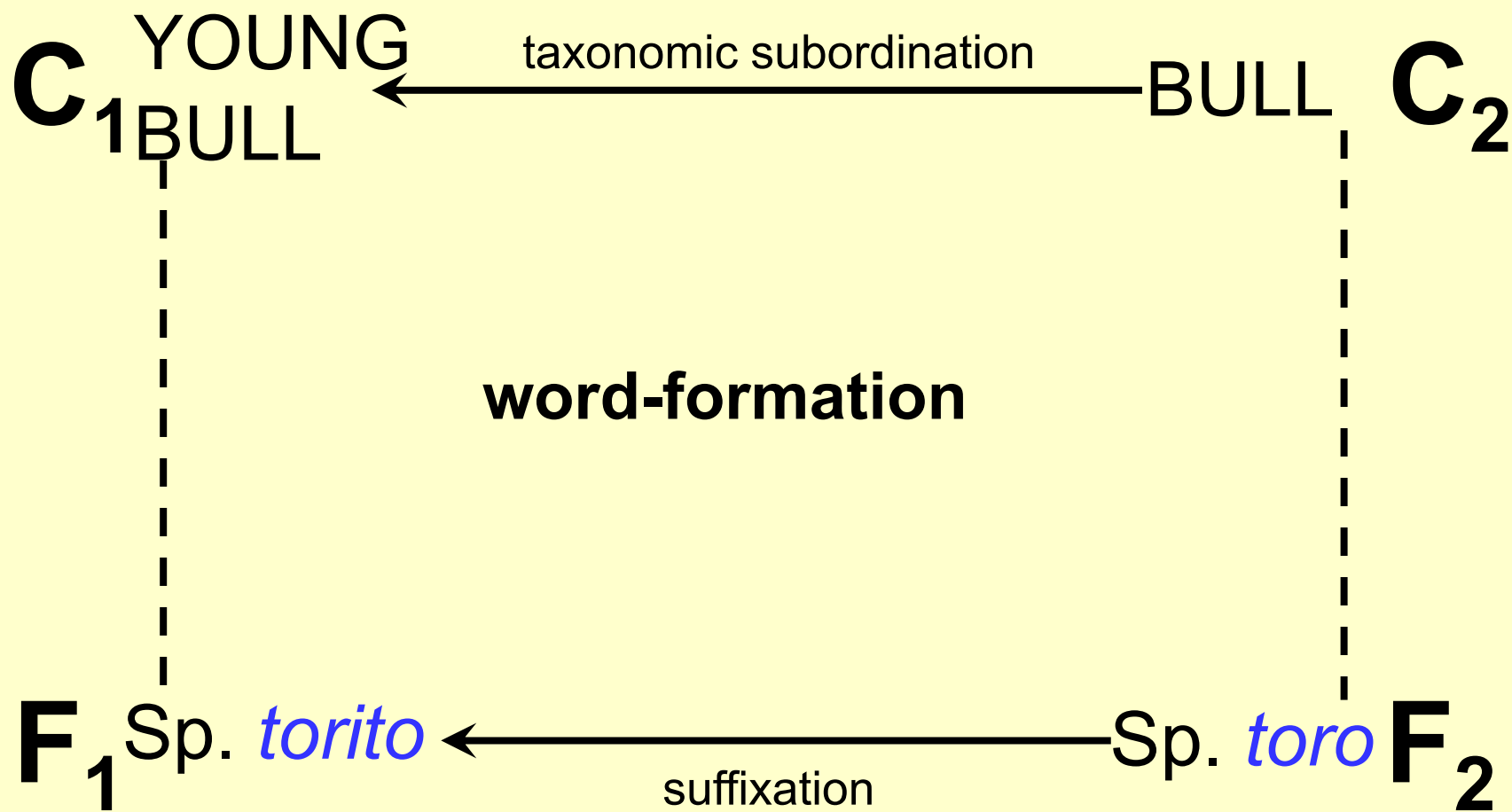


Fig. 44

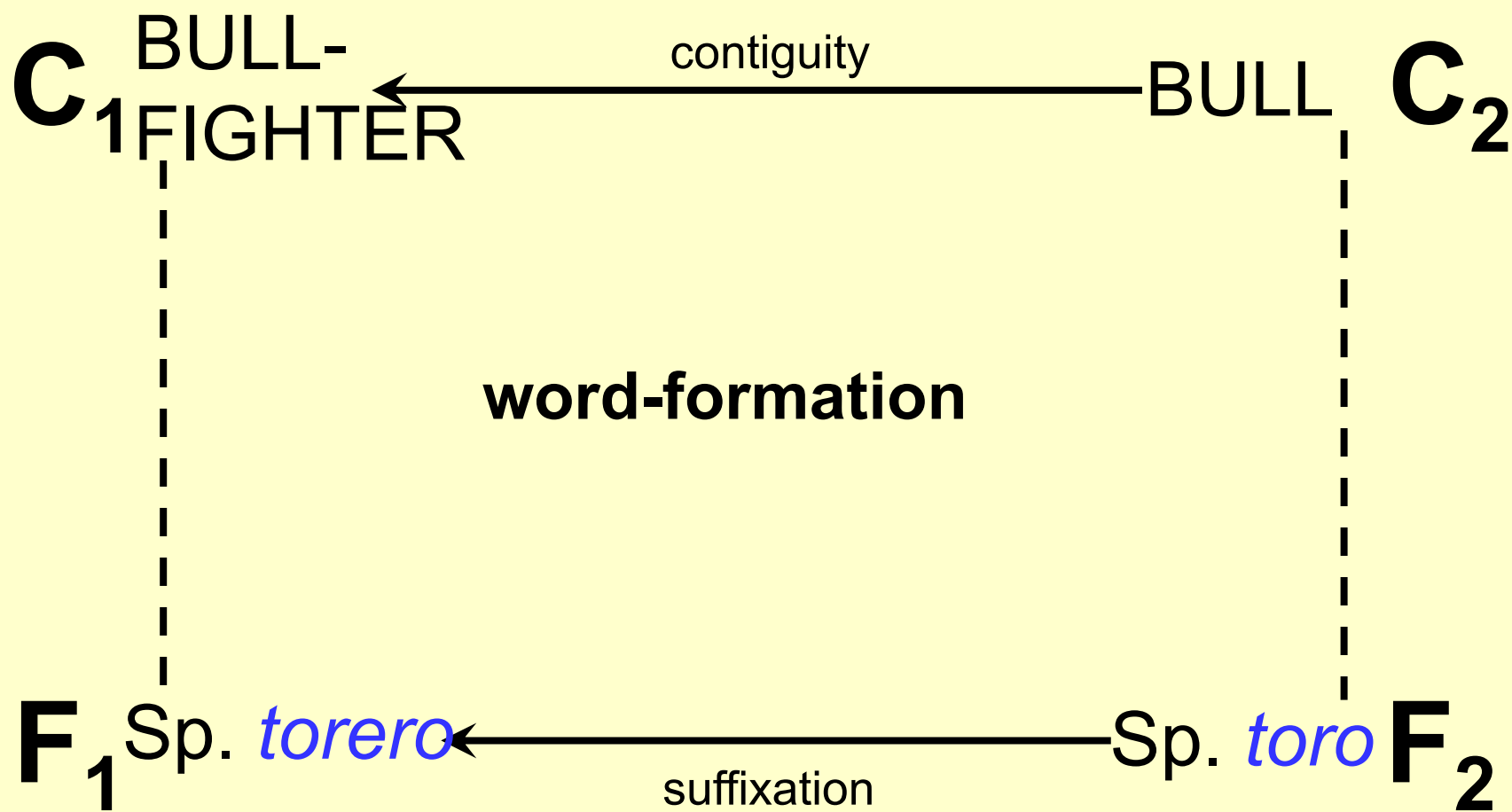


Fig. 45

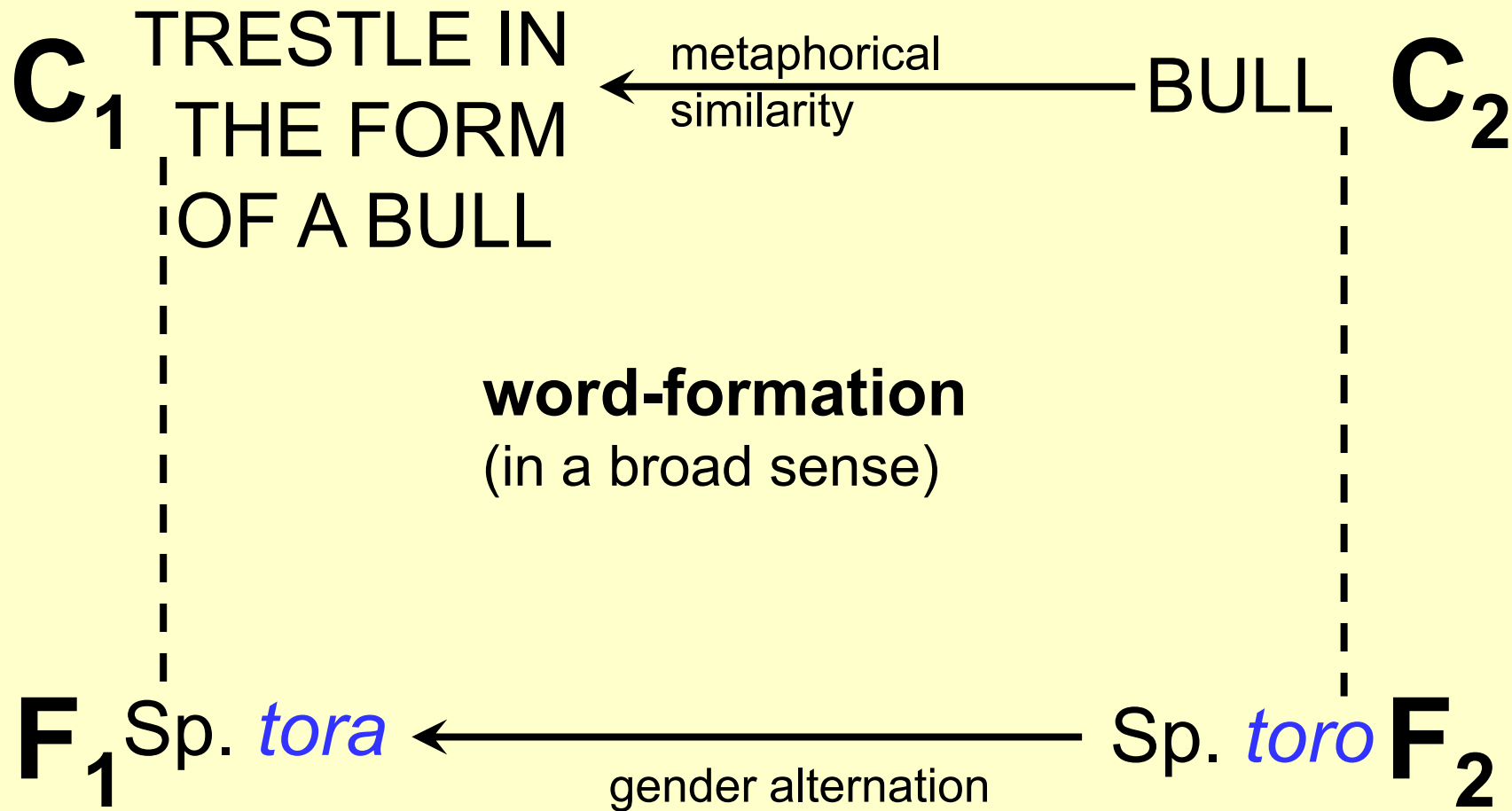
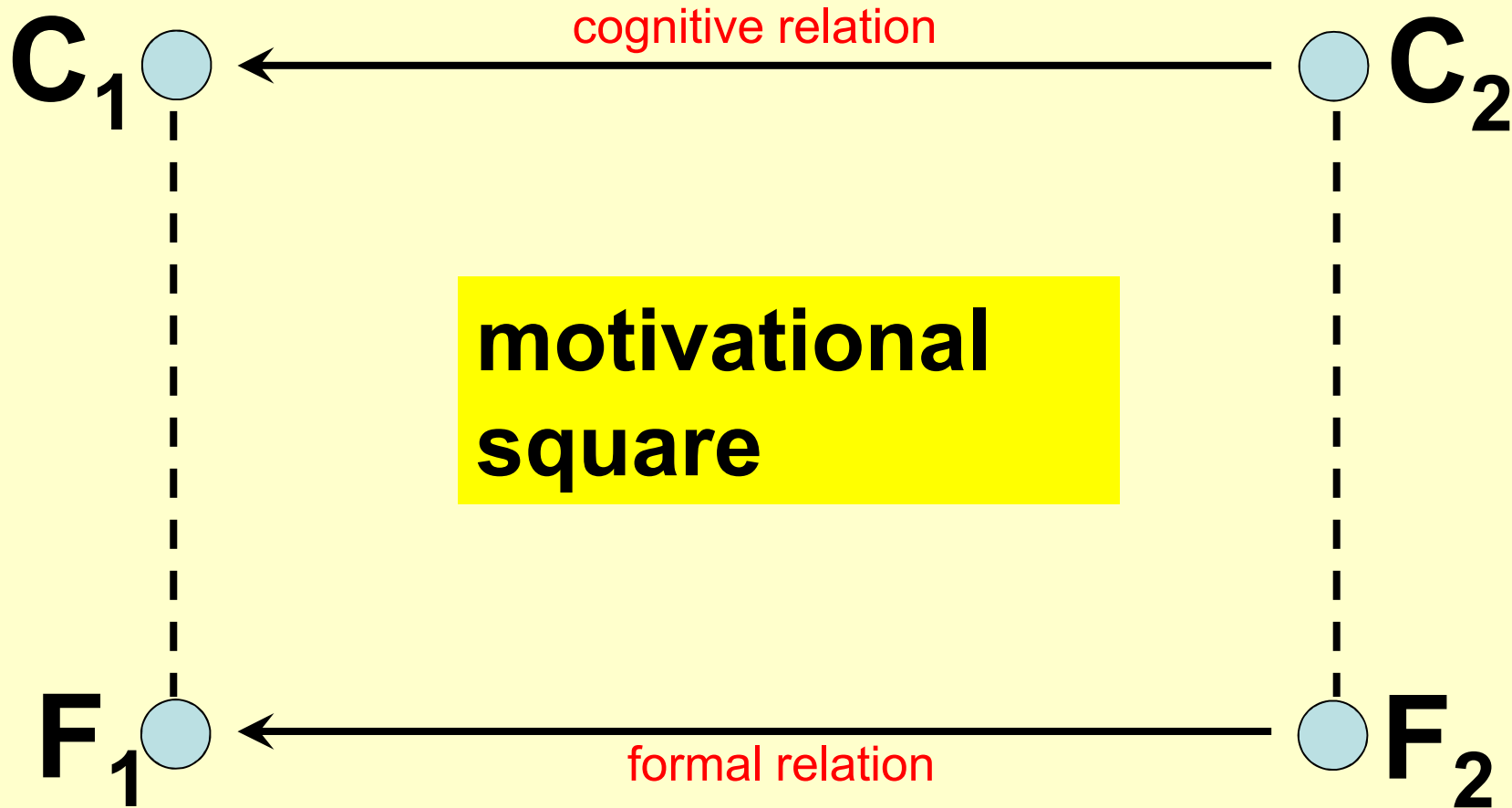
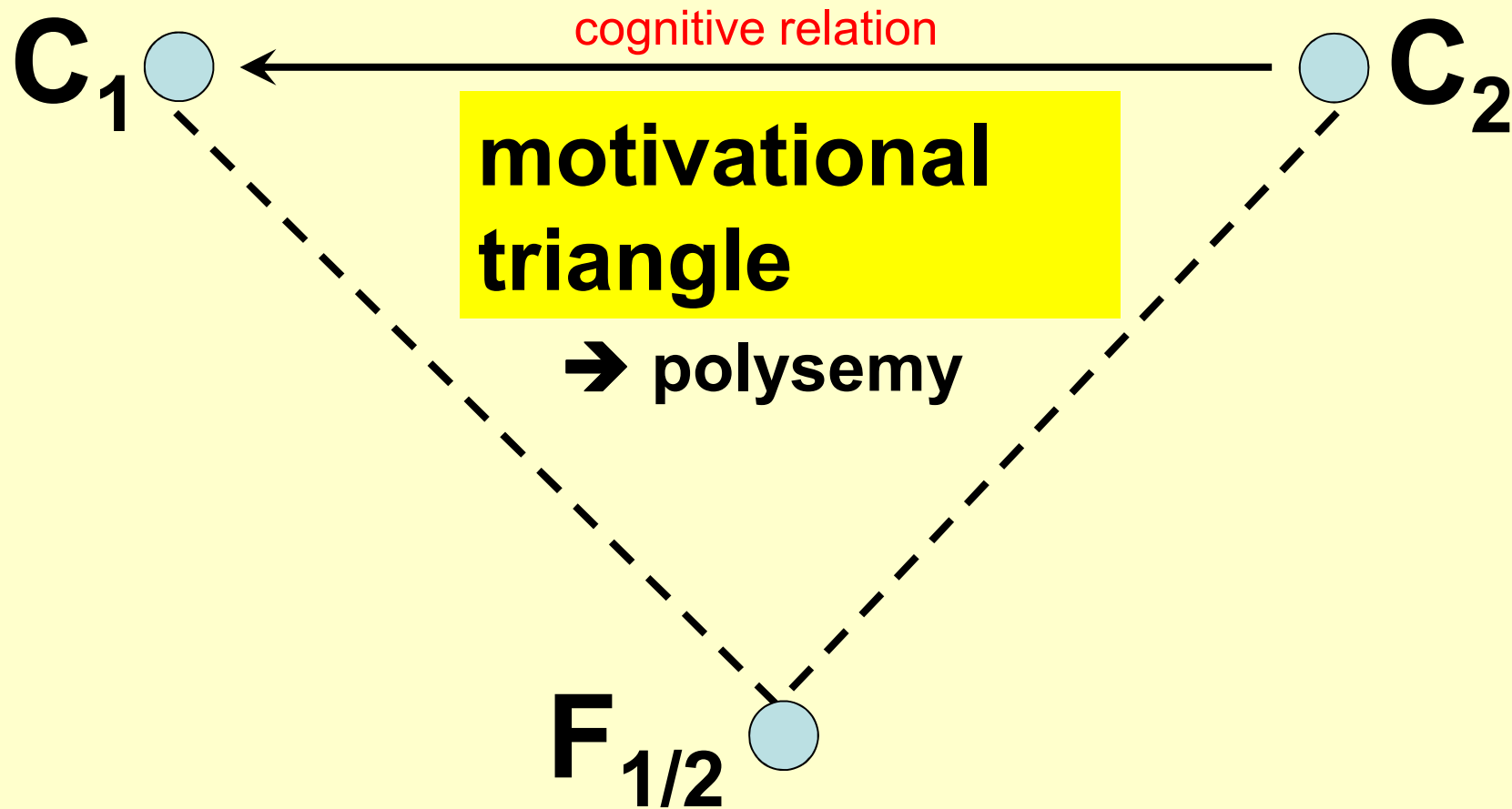


Fig. 46



(cf. Koch 2001: 1156-1159; Koch/Marzo 2007: 260-265;
also Radden/Panther 2004)

Fig. 47



(cf. Koch 2001: 1158; Koch/Marzo 2007: 265;
also Radden/Panther 2004)

Fig. 48

7.1. The cognitive and the formal dimension

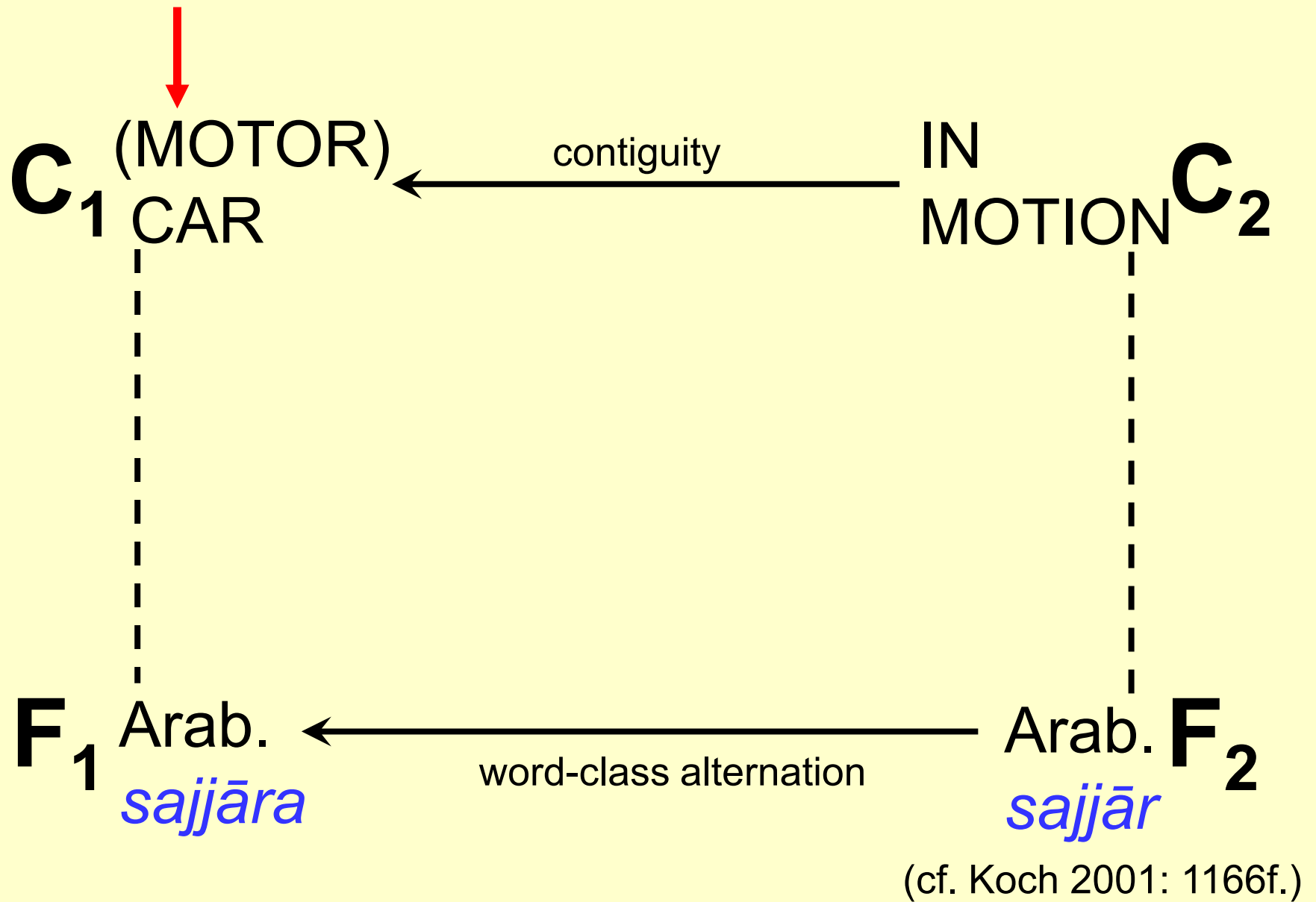
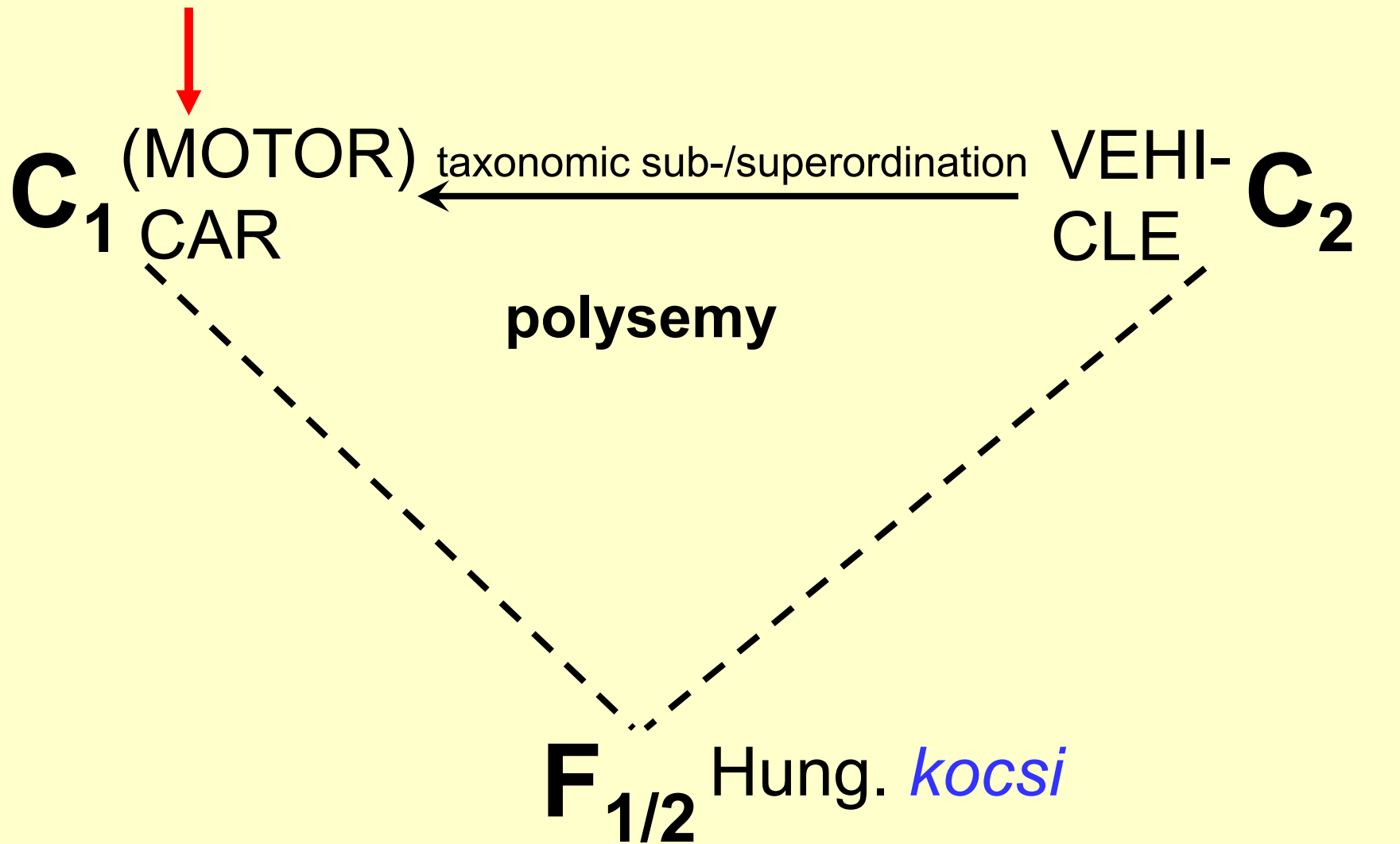


Fig. 52

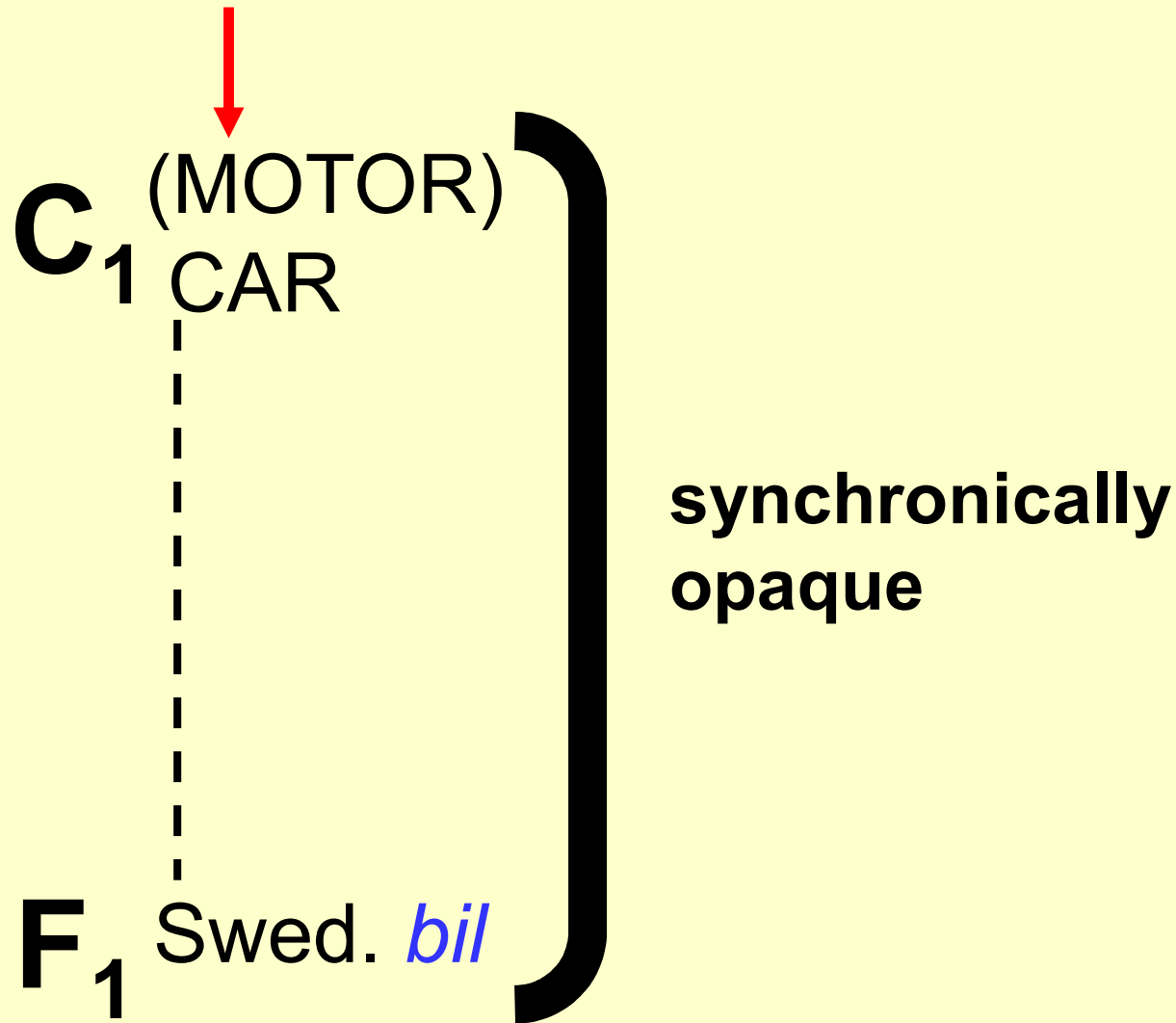
7.1. The cognitive and the formal dimension



(cf. Koch 2001: 1166f.)

Fig. 53

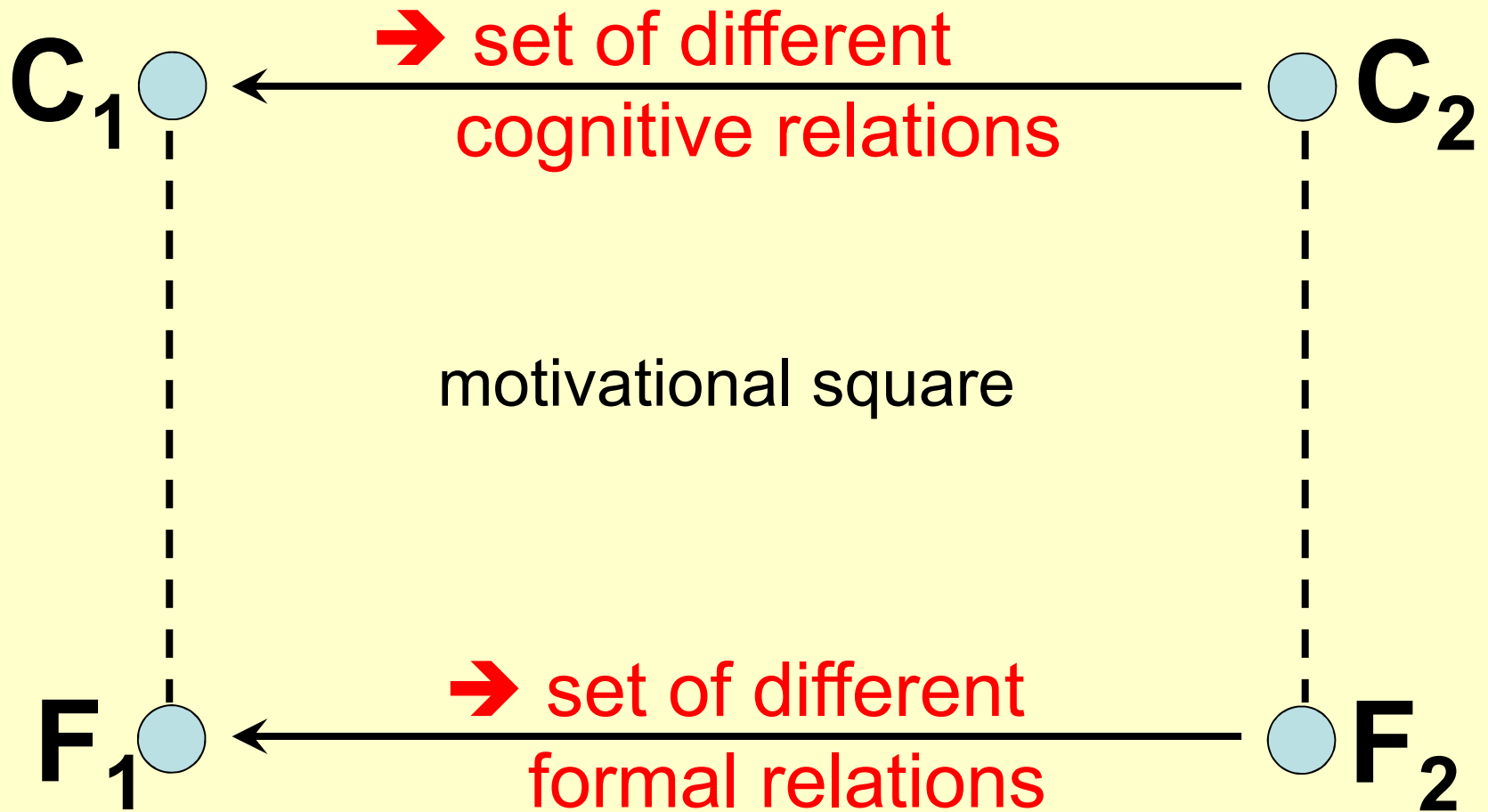
7.1. The cognitive and the formal dimension



(cf. Koch 2001: 1166f.)

Fig. 54

7.1. The cognitive and the formal dimension



(cf. Koch 2001: 1157-1161; Koch/Marzo 2007: 268-271)

Fig. 55

7.1. The cognitive and the formal dimension

Two-dimensional grid

	con- ceptual identi- ty	conti- guity	meta- phorical similari- ty	taxon. simi- larity	taxonomic sub-/ superor- dination	con- trast
formal identity → polysemy						
gender alternation						
word-class alternation						
suffixation						
préfixation						
composition						
...						

Fig. 56

7.1. The cognitive and the formal dimension

Two-dimensional grid

	con- ceptual identi- ty	conti- guity	meta- phorical similari- ty	taxon. simi- larity	taxonomic sub-/ superor- dination	con- trast
formal identity → polysemy		Fig. 50 It. <i>cuc- chiaio</i>	Fig. 43 It. <i>dolce</i>		Fig. 53 Hung. <i>kocsi</i>	
gender alternation			Fig. 46 Sp. <i>tora</i>			
word-class alternation		Fig. 52 Arab. <i>sajjarā</i>				
suffixation		Fig. 45 Sp. <i>torero</i>			Fig. 44 Sp. <i>torito</i>	
préfixation						
composition						
...						Fig. 56

7.1. The cognitive and the formal dimension

Two-dimensional grid

	con- ceptual identi- ty	conti- guity	meta- phorical similari- ty	taxon. simi- larity	taxonomic sub-/ superor- dination	con- trast
formal identity → polysemy						
gender alternation	<p>☞ Which of these combinations exist in human languages, which not? Why?</p>					
word-class alternation						
suffixation	<p>☞ By which formal relations can a given cognitive relation be expressed in different languages? → 7.2.</p>					
préfixation						
composition						
...						

Fig. 56

Lexical ‘converses’

(cf. Fillmore 1977)

(11) E. *John rented this house from an agency.*

(12) E. *The agency let this house to John.*

(same frame
→ very salient contiguity)



opaque

← atypical of this domain

(cf. also Russian, partly Hungarian)

7.2. From meaning to form (case study V): RENT/LET (cf. Koch: 2001: 1166f.)

Formal relations for marking ‘converses’ in the domain RENT/LET

Turk.	<i>kiralamak</i>	polysemy (“auto- conversion”)	cf. Fr., Sp., It., Port., Rom., Mod.Gr.
Anc.Gr.	<i>misthûsthai</i> – <i>misthûn</i>	voice alternation	
Arab.	<i>'ista' ḡbara</i> (X) – <i>'a ḡ ḡbara</i> (II) / <i>'ā ḡ- ḡbara</i> (IV)	“stem” alternation	
Germ.	<i>mieten</i> – <i>vermieten</i>	prefixation	
Swahili	<i>-panga</i> / <i>-kodi</i> – <i>-pangisha</i> / <i>-kodisha</i>	suffixation	
Swed.	<i>hyra</i> – <i>hyra ut</i>	phrasal verb	cf. Amer.E.
Chin.	<i>chū</i> – <i>chūzū</i>	serial verb	
Hung.	<i>bérbe venni</i> – <i>bérbe adni</i>	idiom	

7.2. From meaning to form (case study V): RENT/LET

Formal relations for marking ‘converses’ in the domain RENT/LET

Turk. *kiralamak*

Anc.Gr. *misthûsthai* – *misthûn*

Arab. *'ista' ḡbara* (X) –
'a ḡ ḡbara (II) / *'ā ḡ- ḡbara*
(IV)

Germ. *mieten* – *vermieten*

Swahili *-panga* / *-kodi* –
-pangisha / *-kodisha*

Swed. *hyra* – *hyra ut*

Chin. *chū* – *chūzū*

Hung. *bérbe venni* – *bérbe adni*

- wide-spread motivational solutions based on underlying frame
- functional equivalence of a great variety of formal devices
- in part grammatical devices assuming a lexical function
- in part typologically typical formal devices
- no clear directionality between the two concepts

serial verb

idiom

8. Case study VI: French and Italian vocabulary

Interesting questions concerning lexical motivation:

- How many words of a given language are motivated?
- Have different languages / language types different proportions of motivated words?

(cf. Ullmann 1966)

- **How** are the motivated word motivated, i.e. which formal and cognitive relations are involved in different languages?

→ Project *LexiType_{Syn}* (Tübingen, 2005-08),
pilot study on portions of French and Italian vocabulary

<http://www.sfb441.uni-tuebingen.de/b6/index-engl.html>

Starting-point:

- onomasiological? e.g. Buck? → not sufficiently fine-grained with respect to polysemy
- necessity of a previous polysemy analysis ←
- frequency of words → correlation between frequency and morphological complexity/polysemy (→ motivation!)
- necessity to consider different frequency portions of the vocabulary ←

Three-step procedure:

1. **polysemy** analysis of a (random) choice of high- and low-frequency words
2. **motivational** analysis (**first** part): finding out the motivational “partner” for each stimulus
3. **motivational** analysis (**second** part): finding out the cognitive relation for each couple of motivational “partners”

8. Case study VI: French and Italian vocabulary

*LexiType*_{Syn}

1. **polysemy** analysis of a (random) choice of high- and low-frequency words:

- empirical inquiry (internet form), 30 informants per stimulus
 - **sentence generation** task for every “sense”
 - **definition** task for every “sense”

→ type of result:

Fr. <i>pension</i>	responses
BOARDING-SCHOOL	16
BOARDING-HOUSE	10
OLD AGE PENSION	9
(FINANCIAL) SUPPORT	7
...	...

→ most salient sense

→ 2nd most salient sense



quasi-onomasiological input



2. **motivational** analysis (**first** part)

2. **motivational** analysis (**first** part): finding out the motivational “partner” for each stimulus (30 informants per stim.):

→ results for 100 **French** (left) and 100 **Italian** (right) stimuli:

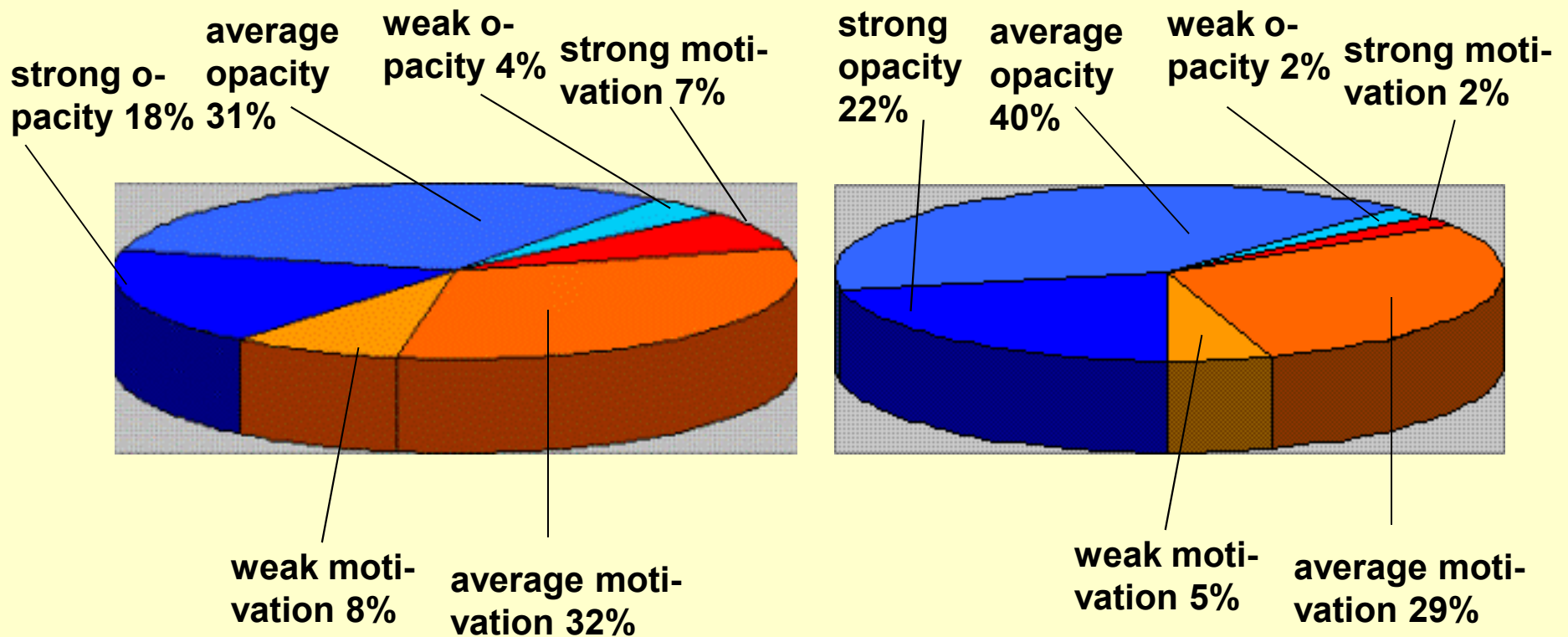


Fig. 57

Fig. 58

3. **motivational** analysis (**second** part): finding out the cognitive relation for each couple of motivational “partners”:

- empirical inquiry (internet form, half-closed questionnaire), 30 informants per stimulus

with diagnostic templates like:

- *X* is a type of *Y*, because... (taxonomic subordination)
- *X* and *Y* do not have anything to do with each other, but you can nevertheless see a similarity between them, because... (metaphorical similarity)
- *X* and *Y* are normally linked in space and/or in time, because... (contiguity)

etc.

3. **motivational analysis (second part):** finding out the cognitive relation for each couple of motivational “partners”:

→ results for the motivated stimuli (from 2.):

(• formal-cognitive combinations)

• cognitive relations: →

Cognitive relations for French

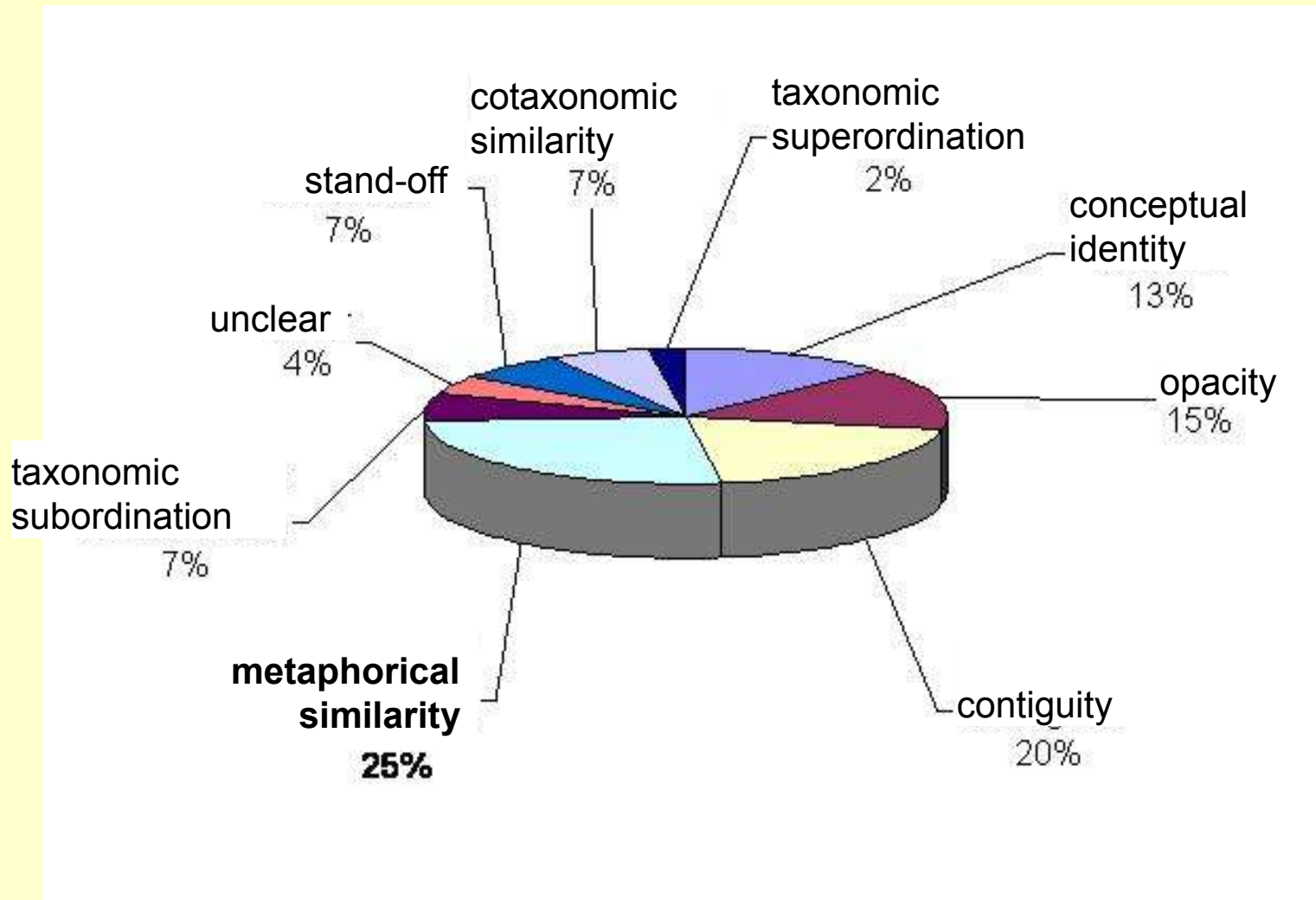


Fig. 59

Cognitive relations for Italian

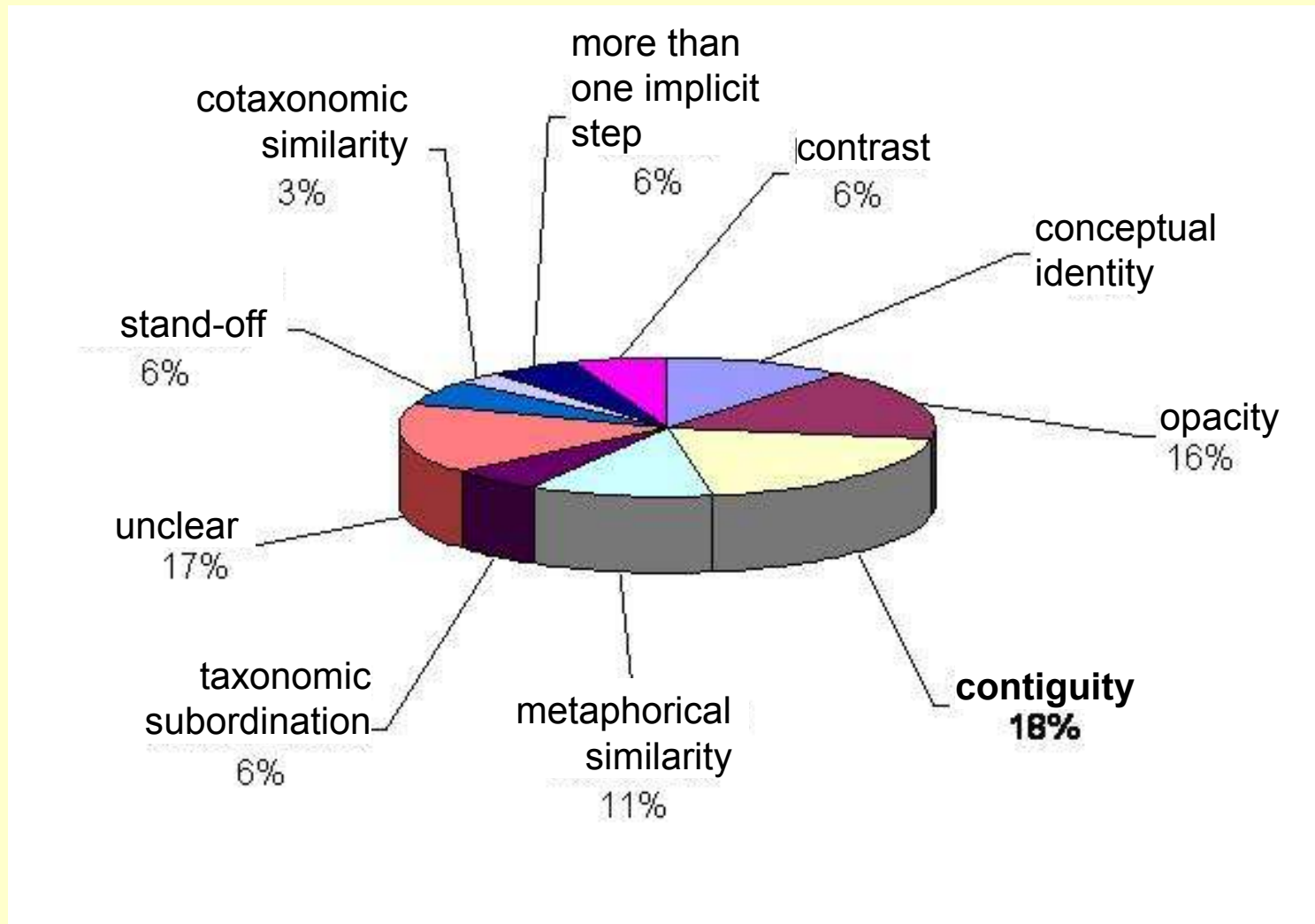
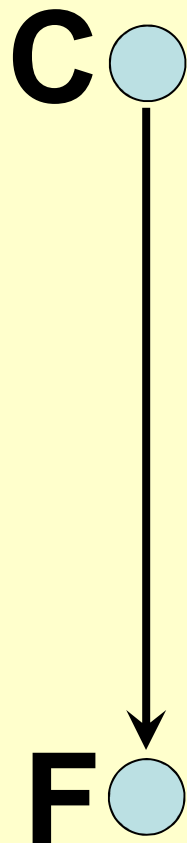


Fig. 60

9.1. Iconicity and diagrammaticity



icons:

- images (e.g. onomatopes)
- diagrams
- metaphors

(cf. Peirce 1902)

Fig. 61

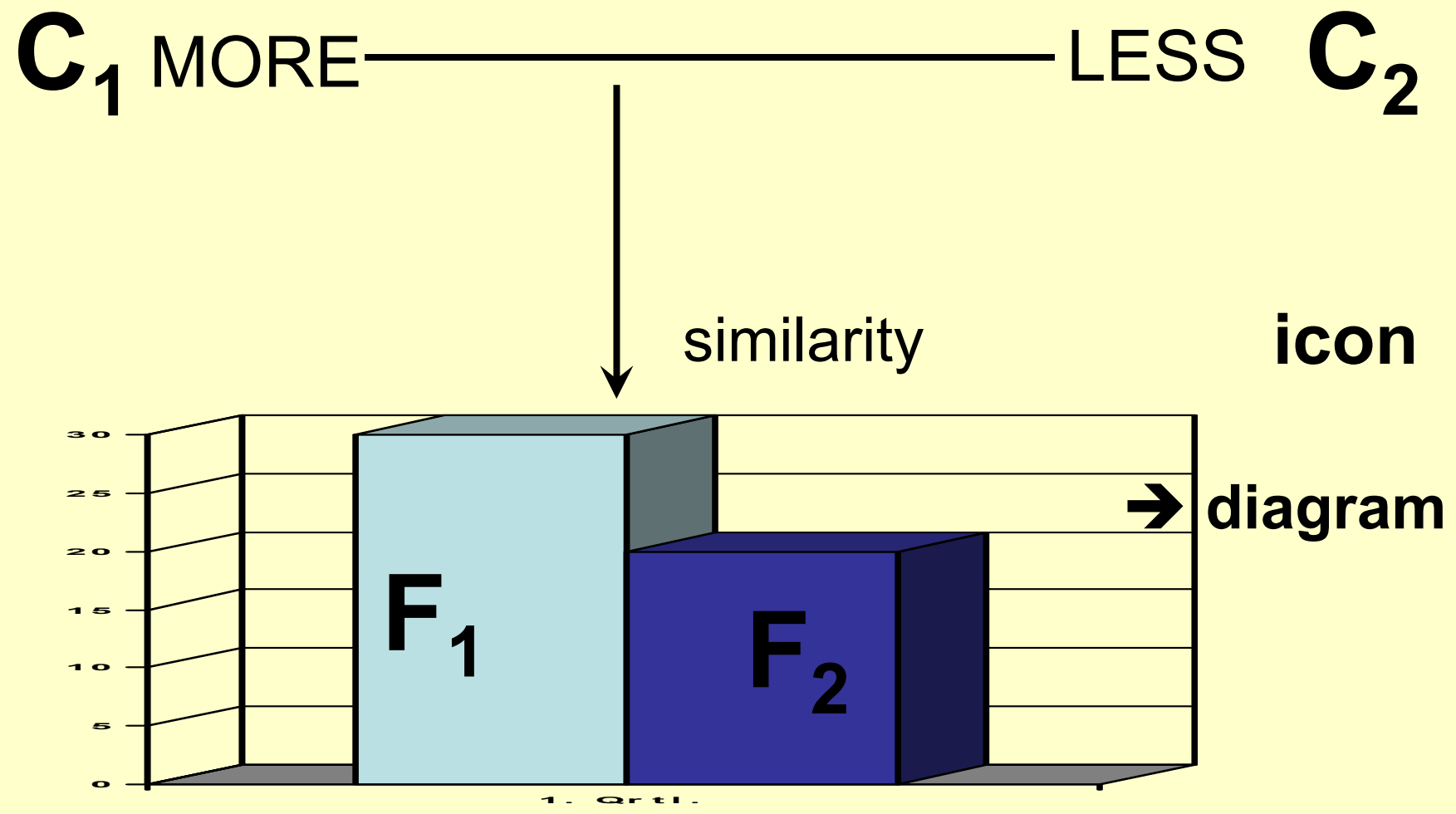


Fig. 62

9.1. Iconicity and diagrammaticity

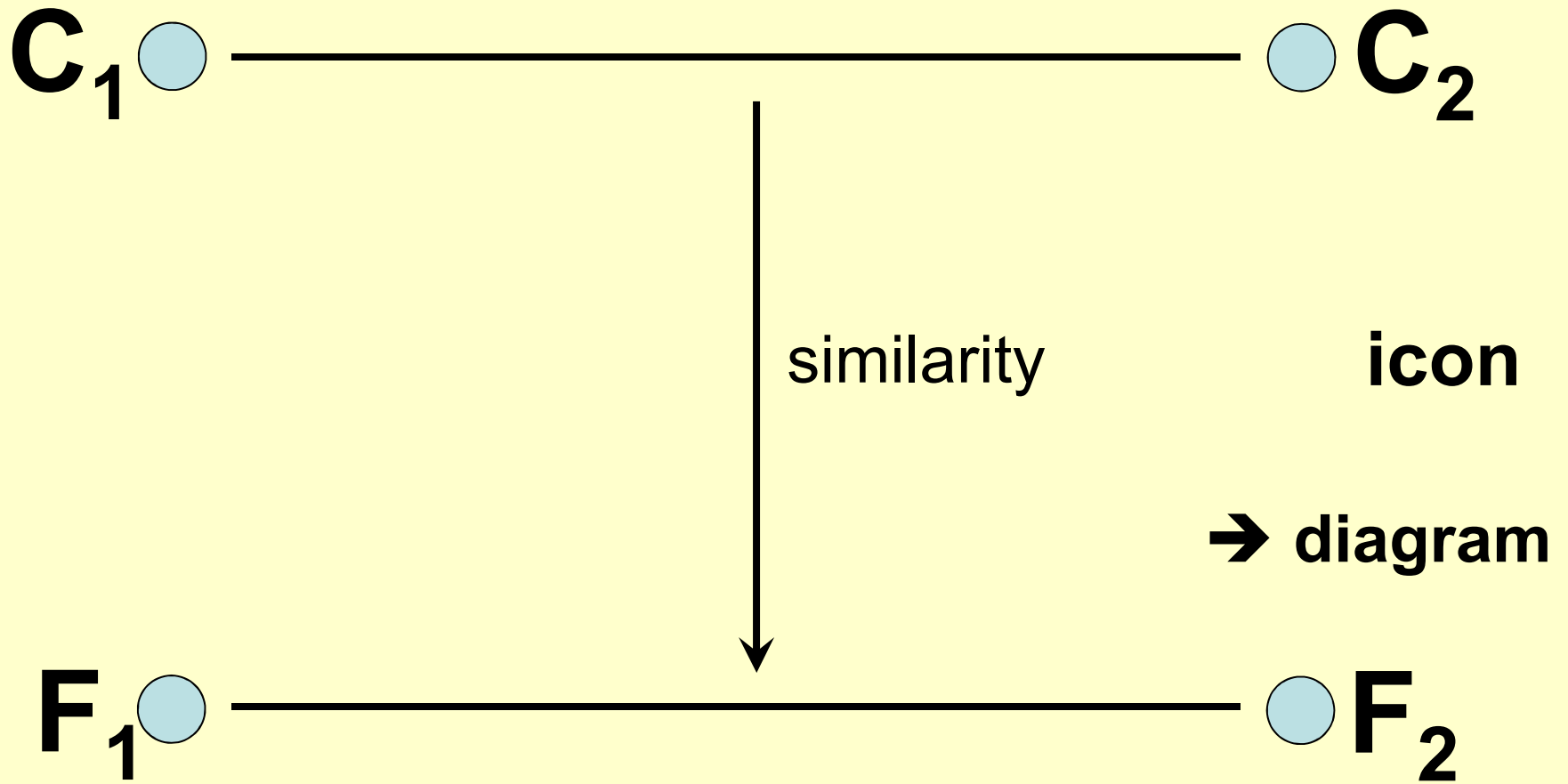
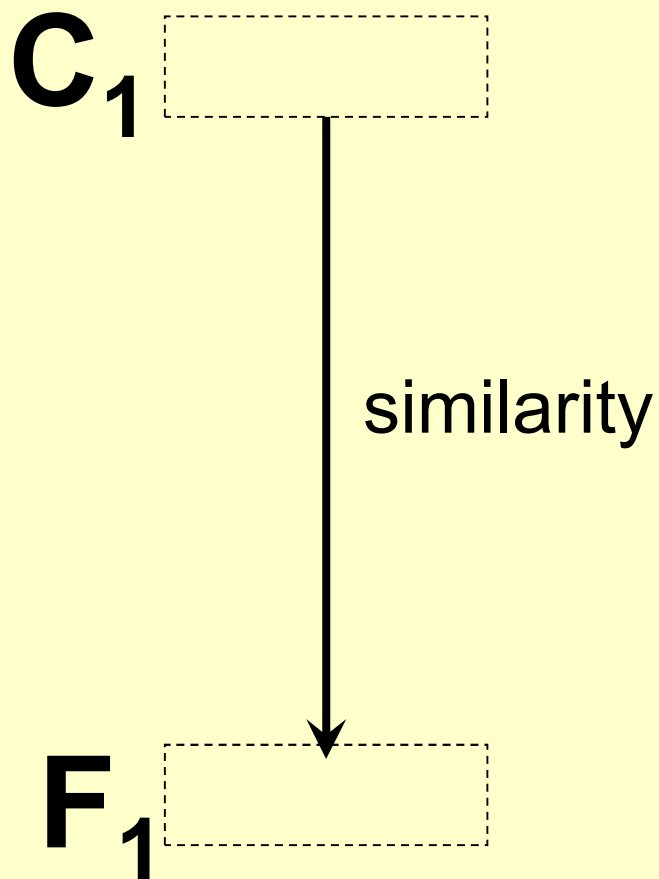


Fig. 63

9.1. Iconicity and diagrammaticity



'iconicity'
type of
C-F motivation

Fig. 64

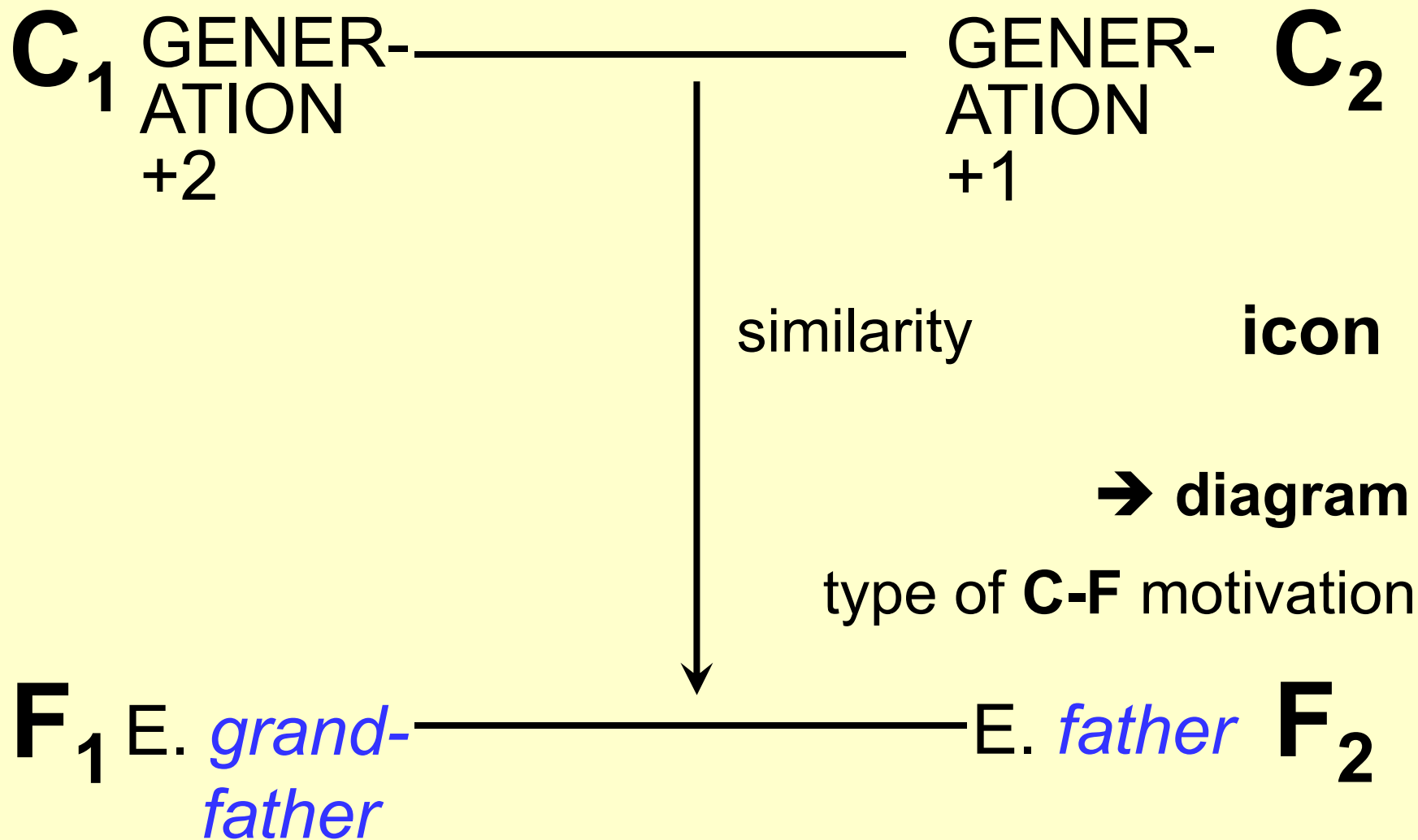


Fig. 66

9.1. Iconicity and diagrammaticity

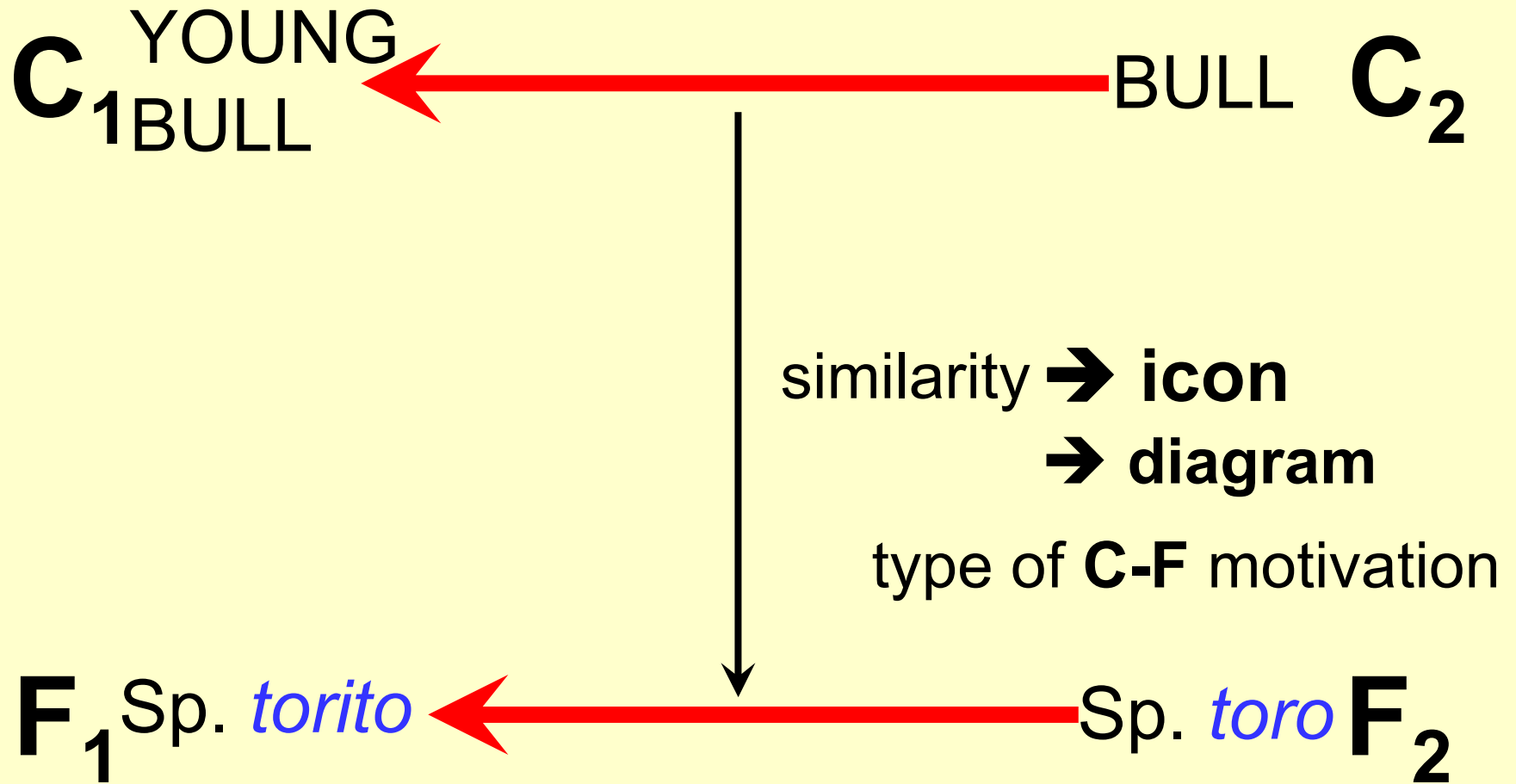


Fig. 67

9.1. Iconicity and diagrammaticity

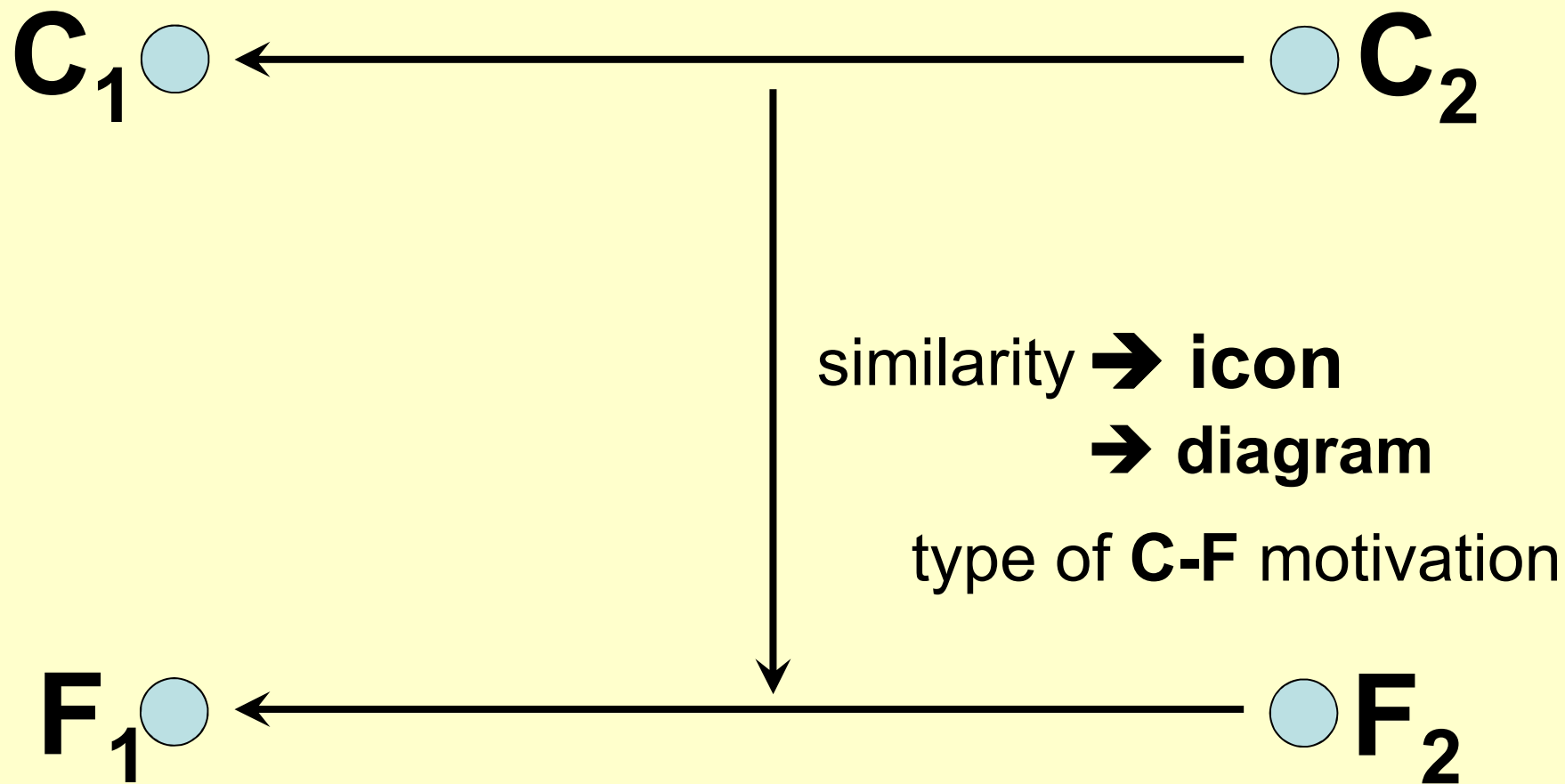


Fig. 68

9.1. Iconicity and diagrammaticity

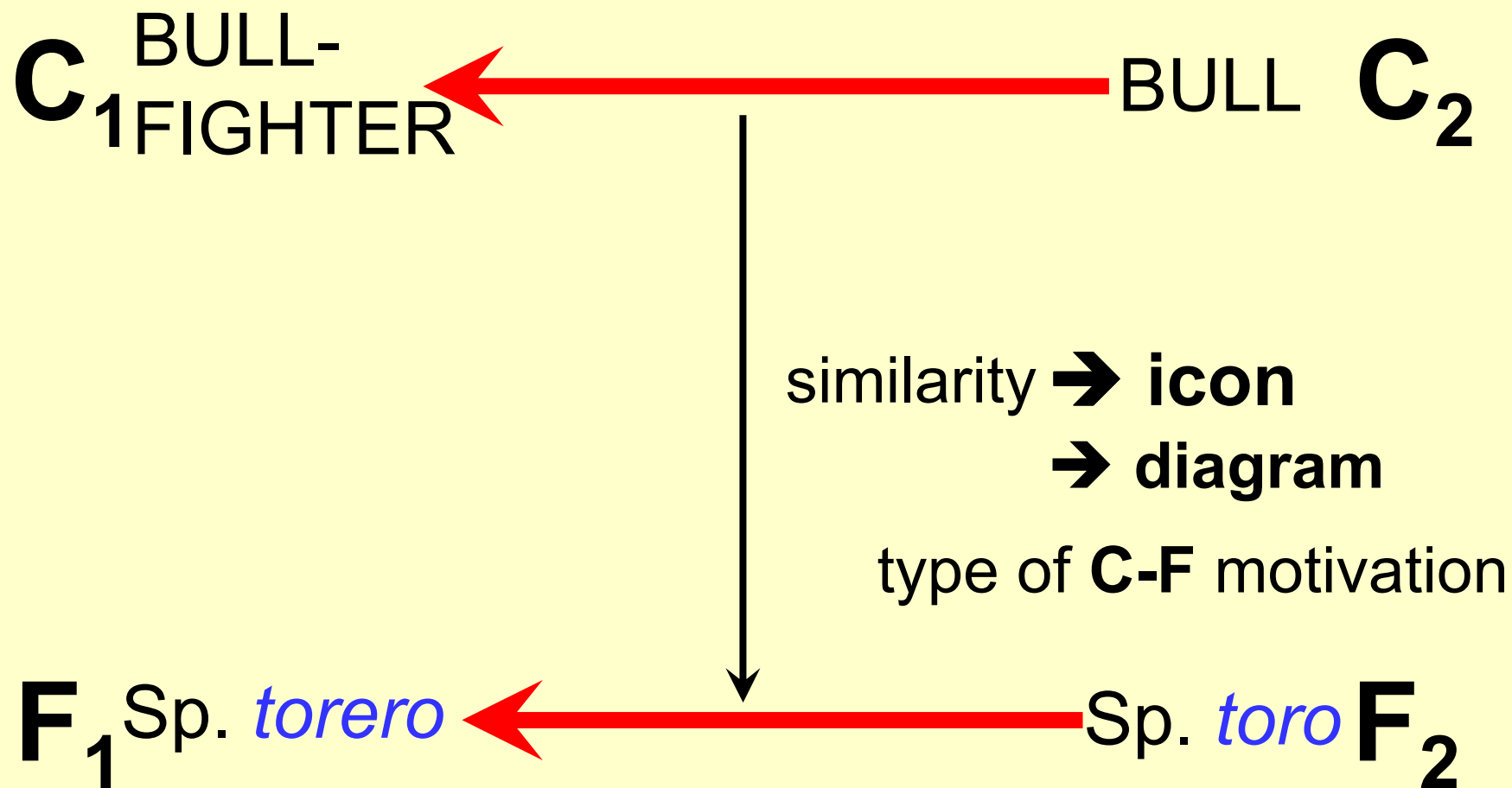


Fig. 69

9.2. Case study VII: TREE and FRUIT

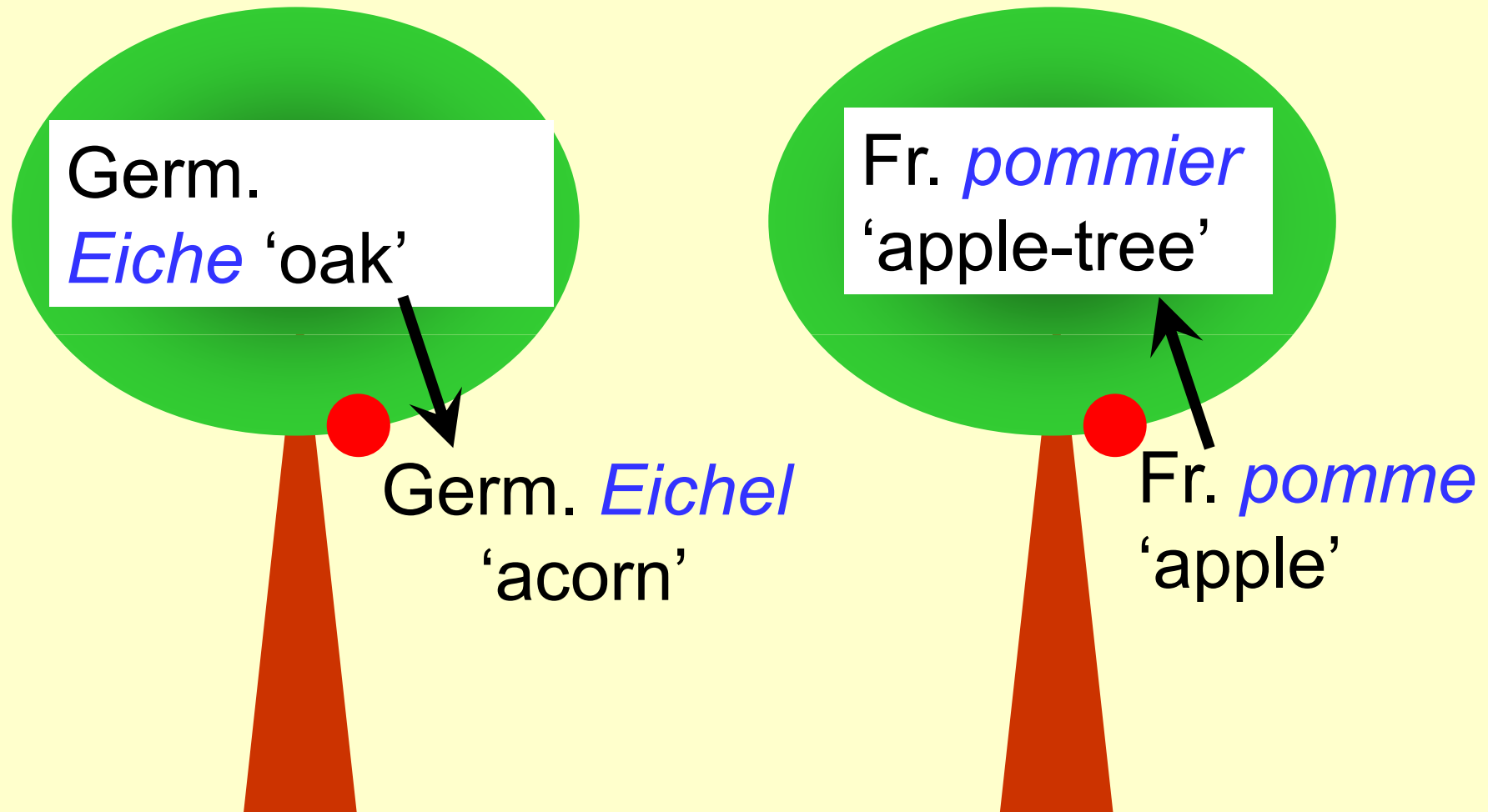


Fig. 71

A cross-linguistic investigation

Concepts: BEECH/BEECHNUT
and PEAR-TREE/PEAR

Sample of 27 languages

(Arabic, Basque, Breton, Catalan, Check, Chinese, Danish, Dutch, English, French, German, Ancient Greek, Modern Greek, Hungrarian, Italian, Japanese, Latin, Norvegian, Persian, Polish, Portugese, Rumania, Russian, Sardinia, Spanish, Swedish, Turkish)

(cf. Koch 1999)

9.2. Case study VII: TREE and FRUIT

	BEECH/ BEECHNUT	PEAR-TREE/ PEAR
identity (polysemy)	—	2
gender alternation	—	4
FRUIT ← TREE	20	1
TREE ← FRUIT	—	20
no link	7	—

9.2. Case study VII: TREE and FRUIT

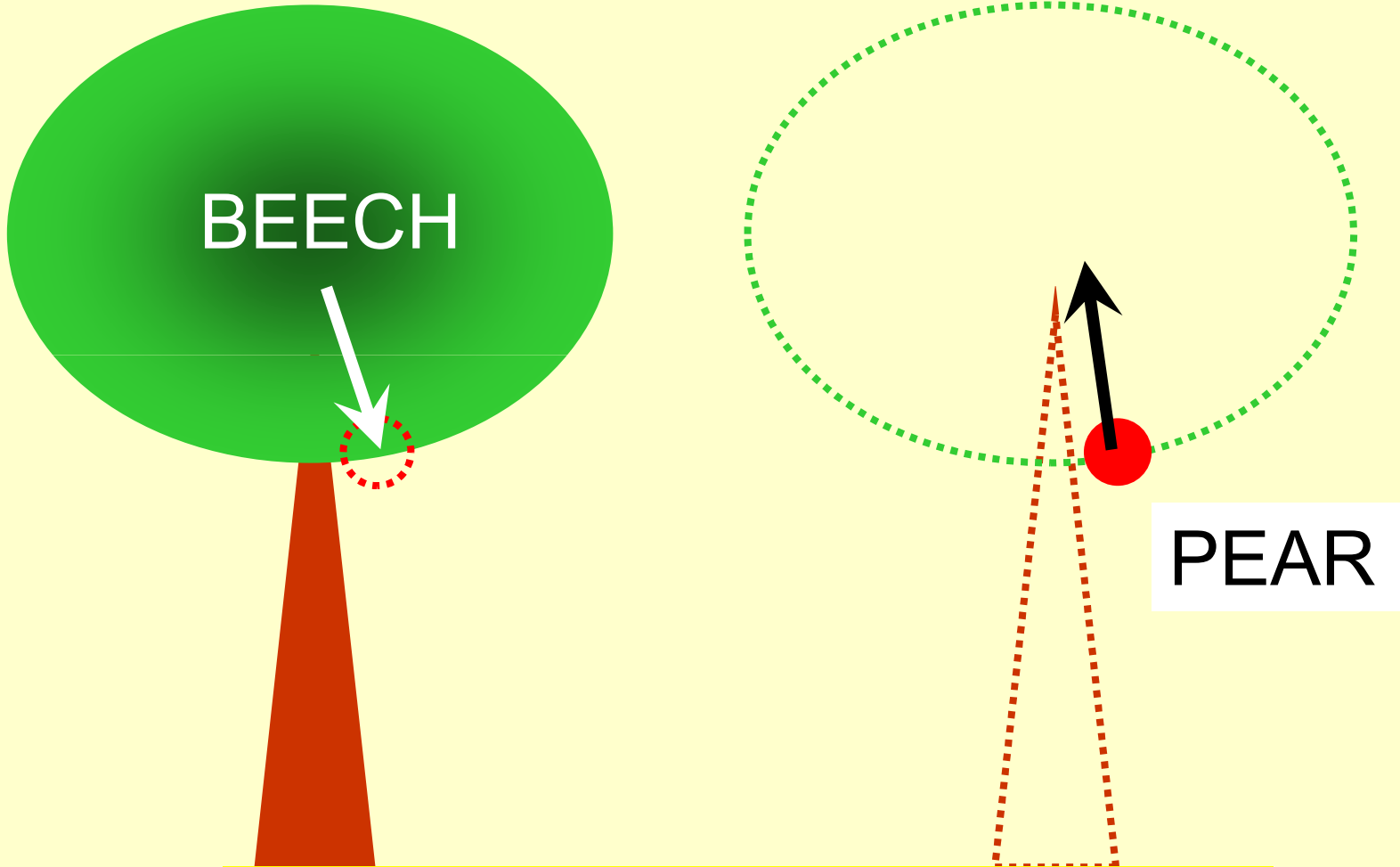


Fig. 72

iconicity: diagrammaticity

9.2. Case study VII: TREE and FRUIT

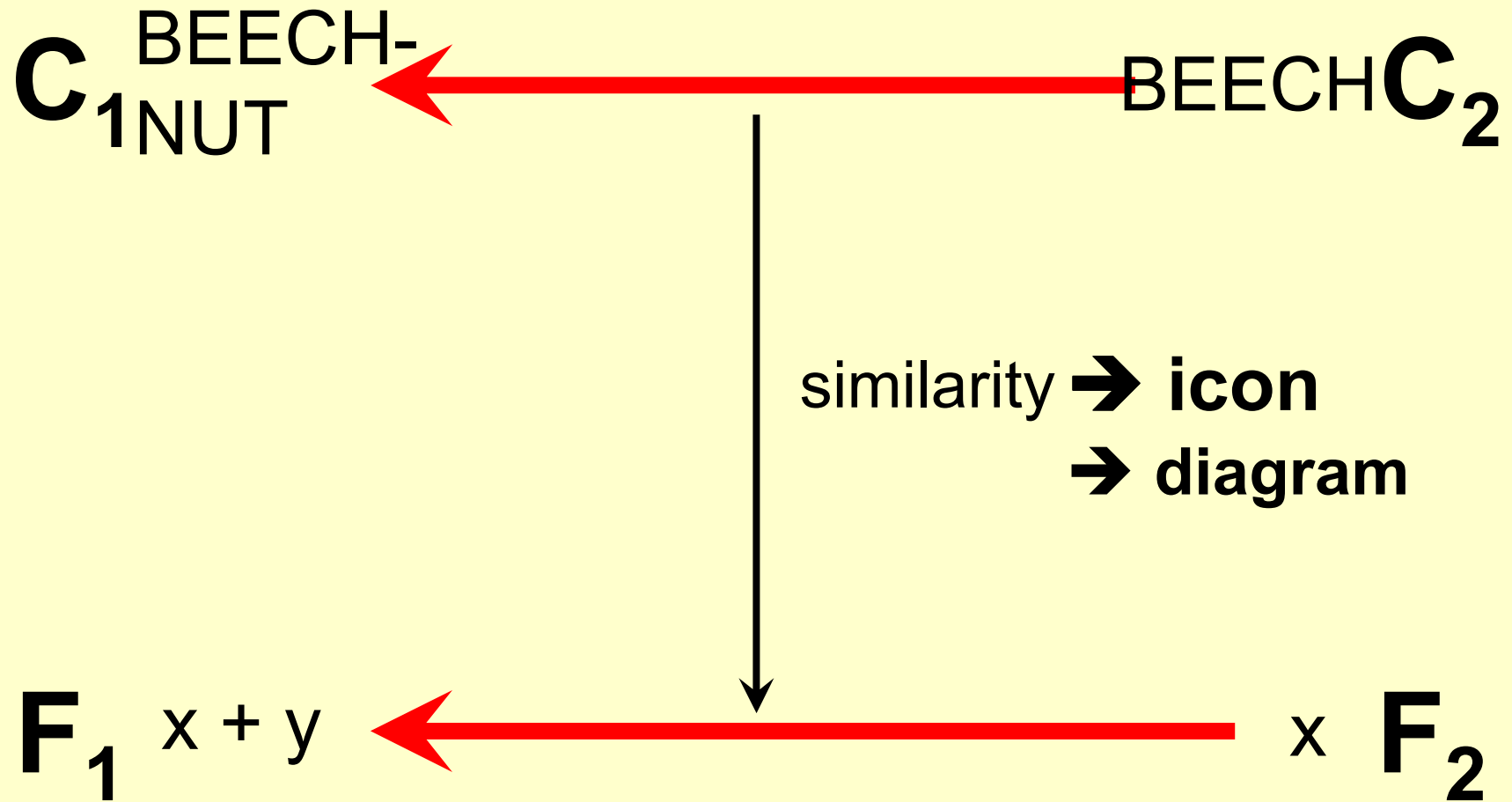


Fig. 73

9.2. Case study VII: TREE and FRUIT

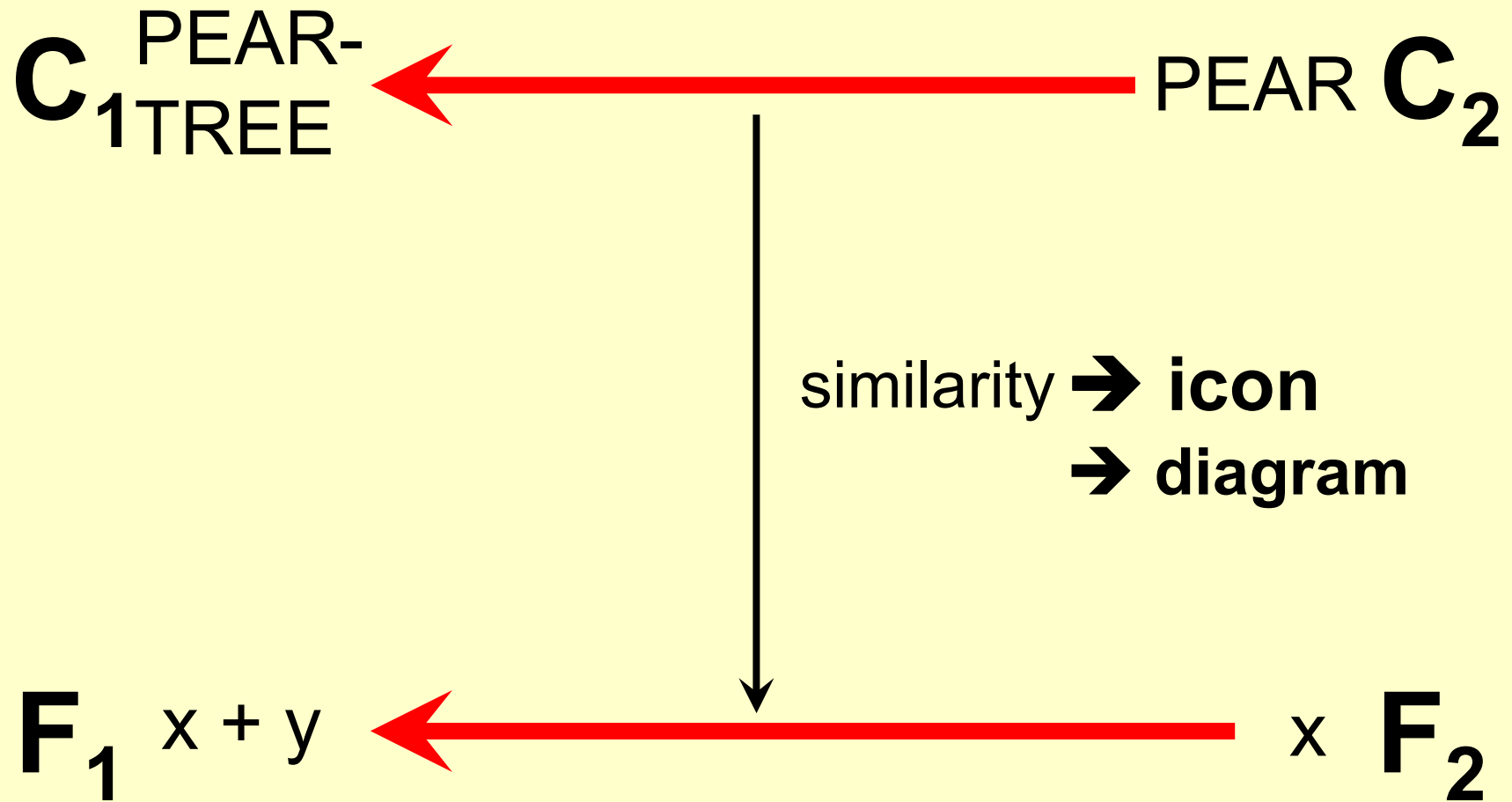


Fig. 74

Task 2 for students

Polysemy

Task 2 for students: polysemy

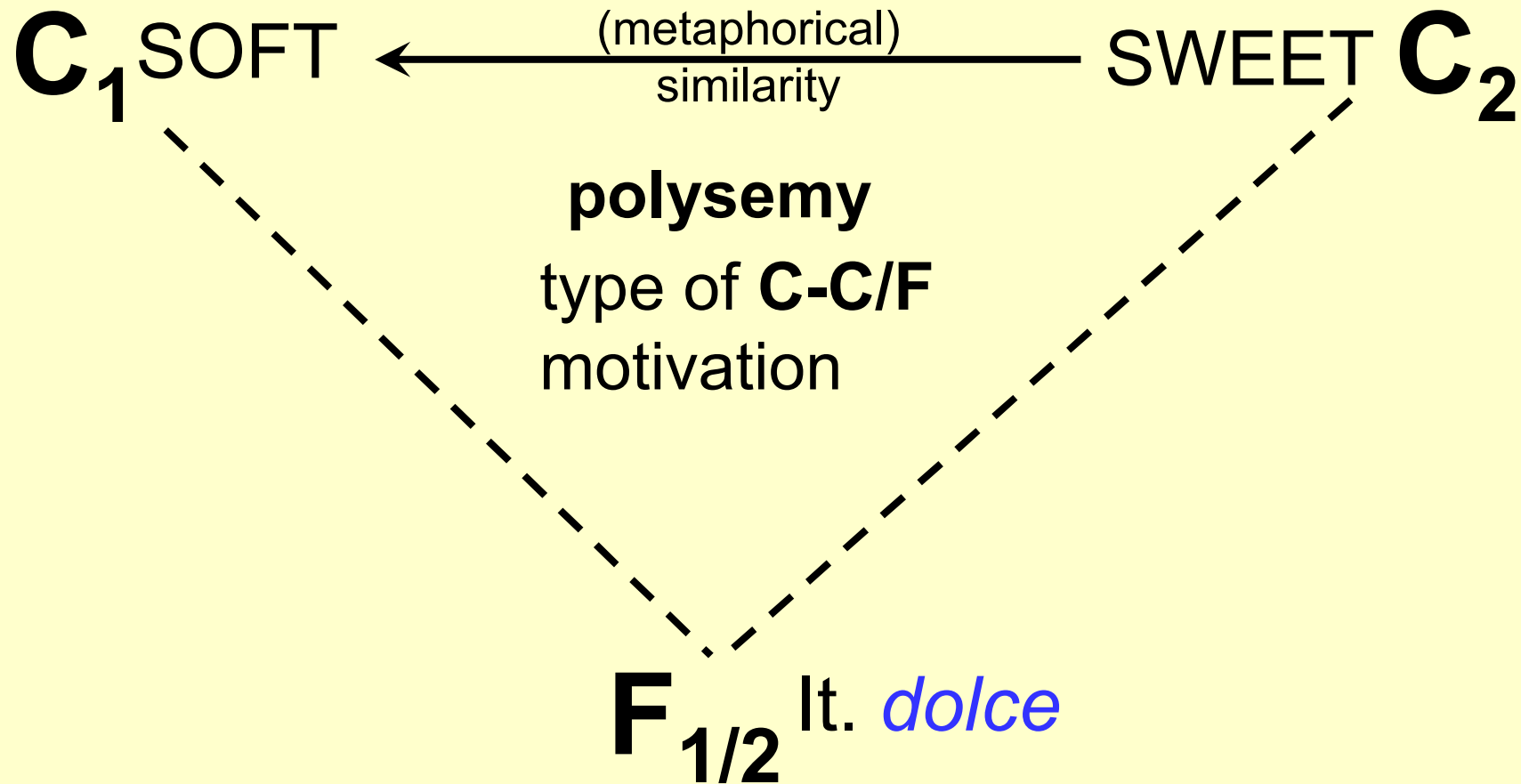


Fig. 43

Task 2 for students: polysemy

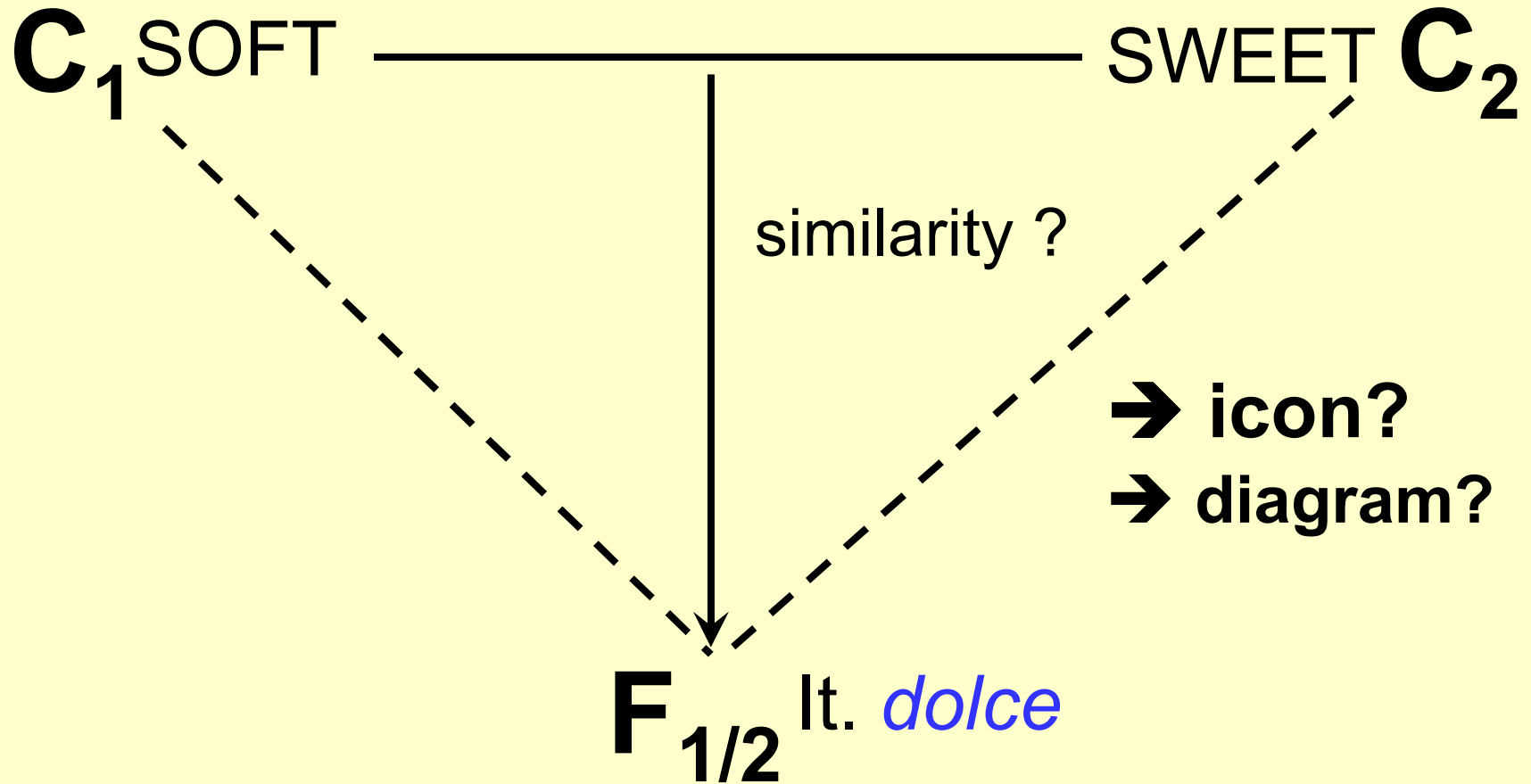



Fig. 75

 Questions with respect to
polysemy:

1. Does polysemy (identity of F) represent the relation between C_1 and C_2 by similarity?
2. Is polysemy iconic/diagrammatic?