"Our language is funny – a fat chance and a slim chance are the same thing."

-- J. Gustav White

similar idioms for death in languages, according to various internets:



alendar (Polish)



"To clap a pair of slippers"



"To break one's

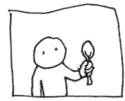


"To throw the spoon to the corner" (tinvish)





To give away



"Guys, What is with all the spons"

Semantics 2:

Compositional Semantics

Today

- Conclude lexical semantics
 - Lexical decomposition
- Compositional semantics
 - Principle of Compositionality
 - Exceptions to Compositionality
 - Entailment

Readings: 6.3-6.4



- What type of semantic relationship does this pair of words have?: coffee / beverage
- a) Hypernym hyponym
- b) Hyponym hypernym
- c) Complementary antonyms
- d) Gradable antonyms
- e) Converse antonyms

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Lexical decomposition

Analyzing a word's meaning by breaking it down into its semantic components or features

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uncle, nephew, father, son = MALE, KINSHIP
ewe, vixen, mare, hen, doe = FEMALE, ANIMAL
puppy, kitten, chick, calf, foal = ANIMAL, YOUNG
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NOTE: Antonyms differ in just *one* semantic feature; Hyponyms of a hypernym share semantic feature(s)

Evidence for semantic relations between words

Slips of the tongue (i.e., performance errors)

 Intended utterance
 Actual utterance

 bridge of the nose
 → bridge of the neck

 he got hot under the collar
 → he got hot under the belt

 my thesis is too long
 → my thesis is too short

→ Evidence that speakers store words in mental lexicons according to semantic properties.

Evidence for semantic relations between words

- Aphasia: language impairment resulting from acquired brain damage
 - Can lead to naming impairments more or less restricted to semantic categories (e.g., fruits/vegetables, animals, tools)

Compositional semantics

 The study of how meanings of words combine to create larger units of meaning

The lion chased the tiger ≠ The tiger chased the lion.

i.e., the whole does not equal sum of its parts

She saw the man with the binoculars.

i.e., syntactic organization is relevant for sentence meaning

Compositional semantics

■ The Principle of Compositionality:

The meaning of a sentence is determined by the meaning of its words in conjunction with the way they are syntactically combined.

Exceptions to Compositionality

- Anomaly: When phrases are well-formed syntactically but not semantically (i.e., they 'don't make sense')
 - Colorless green ideas sleep furiously.
 - The square root of my chair is thirty-five.

Exceptions to Compositionality

Metaphor: the use of an expression to refer to something it does not literally denote in order to suggest a similarity

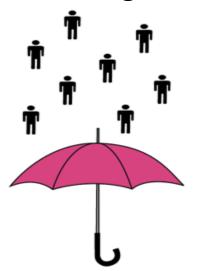
He is a pig.



She is a walking dictionary.



It's raining men.



Exceptions to Compositionality

- Idioms: Phrases with fixed meanings not composed of literal meanings of the words
 - Kick the bucket = 'to die' (*The bucket was kicked by John.)
 - When pigs fly = 'it will never occur' (*She suspected pigs might actually fly tomorrow.)
 - Break a leg = 'good luck' (*Last night at the show, her leg definitely broke.)

Idioms in other languages

Language	literal meaning	noncompositional meaning
Witsuwit'en	's/he likes your smell'	's/he is used to you'
Czech	'to walk around hot porridge'	'to avoid coming to the main point'
Russian	'to hang noodles on one's ears'	'to tell lies'
Korean	'your belly button is bigger than your belly'	'the remedy costs more than it's worth'
Sekani	'it wagged its tail'	'it died'
Turkish	'stop ironing my head'	'enough already'

Semantic relations between sentences

Entailment: The relationship between two sentences (A and B) where the truth of one (A) guarantees the truth of the other (B)

A: Smerdyakov killed Fyodor.

B: Fyodor is dead.

A: Clifford is a beagle.

B: Clifford is a dog.

A: Johnny drives a small car.

B: Johnny drives a car.

= "A entails B"

Semantic relations between sentences

Mutual entailment (or Paraphrase): When A entails B and vice versa (A and B entail each other)

A: The lion chased the tiger.

B: The tiger was chased by the lion.

A: Jamie is older than Adam.

B: Adam is younger than Jamie.

A: June loaned some money to May.

B: May borrowed some money from June.

- What is the entailment relation between these 2 sentences? A: Gertie is eating an apple. B: Gertie is eating fruit.
- a) A entails B
- b) B entails A
- c) They are paraphrases
- d) No entailment

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