

Overview of WordNet

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UIC CS 421

WordNet

- Large lexical resource with information about:
 - Nouns
 - Verbs
 - Adjectives and adverbs
- Each entry is annotated with one or more **senses**
- Each sense provides a variety of information

WordNet Search - 3.1

- [WordNet home page](#) - [Glossary](#) - [Help](#)

Word to search for:

Display Options:

Key: "S:" = Show Synset (semantic) relations, "W:" = Show Word (lexical) relations

Display options for sense: (frequency) {offset} <lexical filename > [lexical file number] (gloss) "an example sentence"

Display options for word: word#sense number (sense key)

Noun

- (1){03730361} <noun.artifact>[06] [S: \(n\) mask#1 \(mask%1:06:00::\)](#) (a covering to disguise or conceal the face)
- (1){01051399} <noun.act>[04] [S: \(n\) mask#2 \(mask%1:04:00::\)](#) (activity that tries to conceal something) *"no mask could conceal his ignorance"; "they moved in under a mask of friendship"*
- {08270371} <noun.group>[14] [S: \(n\) masquerade#1 \(masquerade%1:14:00::\)](#), [masquerade party#1 \(masquerade_party%1:14:00::\)](#), [masque#1 \(masque%1:14:00::\)](#), [mask#3 \(mask%1:14:00::\)](#) (a party of guests wearing costumes and masks)
- {03730526} <noun.artifact>[06] [S: \(n\) mask#4 \(mask%1:06:01::\)](#) (a protective covering worn over the face)

Verb

- (1){02152033} <verb.perception>[39] [S: \(v\) dissemble#2 \(dissemble%2:39:00::\)](#), [cloak#1 \(cloak%2:39:00::\)](#), [mask#1 \(mask%2:39:00::\)](#) (hide under a false appearance) *"He masked his disappointment"*
- (1){01361031} <verb.contact>[35] [S: \(v\) mask#2 \(mask%2:35:00::\)](#) (put a mask on or cover with a mask) *"Mask the children for Halloween"*
- {02163017} <verb.perception>[39] [S: \(v\) disguise#1 \(disguise%2:39:00::\)](#), [mask#3 \(mask%2:39:01::\)](#) (make unrecognizable) *"The herb masks the garlic taste"; "We disguised our faces before robbing the bank"*
- {01361558} <verb.contact>[35] [S: \(v\) mask#4 \(mask%2:35:02::\)](#) (cover with a sauce) *"mask the meat"*
- {01361440} <verb.contact>[35] [S: \(v\) mask#5 \(mask%2:35:01::\)](#), [block out#3 \(block_out%2:35:00::\)](#) (shield from light)

WordNet Entries

- Senses contain:
 - **Gloss**
 - A definition of the sense
 - List of synonyms
 - Commonly referred to as a **synset**
 - (Sometimes) example sentence

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Noun

- (1){03730361} <noun.artifact>[06] [S: \(n\)](#) **mask#1 (mask%1:06:00::)** (a covering to disguise or conceal the face)
- (1){01051399} <noun.act>[04] [S: \(n\)](#) **mask#2 (mask%1:04:00::)** (activity that tries to conceal something) *"no mask could conceal his ignorance"; "they moved in under a mask of friendship"*
- {08270371} <noun.group>[14] [S: \(n\)](#) [masquerade#1 \(masquerade%1:14:00::\)](#), [masquerade party#1 \(masquerade_party%1:14:00::\)](#), [masque#1 \(masque%1:14:00::\)](#), **mask#3 (mask%1:14:00::)** (a party of guests wearing costumes and masks)
- {03730526} <noun.artifact>[06] [S: \(n\)](#) **mask#4 (mask%1:06:01::)** (a protective covering worn over the face)

Verb

- (1){02152033} <verb.perception>[39] [S: \(v\)](#) [dissemble#2 \(dissemble%2:39:00::\)](#), [cloak#1 \(cloak%2:39:00::\)](#), **mask#1 (mask%2:39:00::)** (hide under a false appearance) *"He masked his disappointment"*
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Lexicographic Categories

- Coarse-grained semantic categories
 - Often referred to as **supersenses**

Category	Example	Category	Example	Category	Example
ACT	service	GROUP	place	PLANT	tree
ANIMAL	dog	LOCATION	area	POSSESSION	price
ARTIFACT	car	MOTIVE	reason	PROCESS	process
ATTRIBUTE	quality	NATURAL EVENT	experience	QUANTITY	amount
BODY	hair	NATURAL OBJECT	flower	RELATION	portion
COGNITION	way	OTHER	stuff	SHAPE	square
COMMUNICATION	review	PERSON	people	STATE	pain
FEELING	discomfort	PHENOMENON	result	SUBSTANCE	oil
FOOD	food			TIME	day

Sense Relations

- **Hypernym:** Relation between a concept and its superordinate
 - *Food* is a hypernym of *cake*
- **Hyponym:** Relation between a concept and its subordinate
 - *Corgi* is a hyponym of *dog*
- **Meronym:** Relation between a part and its whole
 - *Wheel* is a meronym of *car*
- **Holonym:** Relation between a whole and its parts
 - *Car* is a holonym of *wheel*
- **Antonym:** Relation between two semantically opposite concepts
 - *Leader* is an antonym of *follower*

Hierarchical Structure

