

Verb Supersense Annotation Guidelines for STREUSLE 2.0

Using WordNet as a guide, we should develop a tagging scheme for verbs along the lines of the one for nouns. (Verb tag names are lowercased to distinguish them from noun tags.)

`a (auxiliary)

might/aux have/aux been/aux Ving

`j (adjectival)

the written/adj message, a sinking/adj feeling

body (grooming, dressing, bodily functions and care)

exercise = work out, cry (shed tears), wear (clothes), sweat, shiver, faint, burp, ache, tire, sleep, recuperate = convalesce, reproduce (biologically), die = cease to live [though WN puzzlingly has change], injure (physically)

change (size, temperature change, intensifying, etc.)

grow (increase in size, age, or value), remove (physically), modify, revert, adjust, pop = burst

- includes verbs derived with -ify, -ize, -en, etc.: humidify, magnetize, strengthen

cognition (thinking, judging, analyzing, doubting)

decide, think, rate (assign rating), respect = have respect for, memorize, learn, see = understand

contrast with **perception**, **communication**

communication (verbal/linguistic or nonverbal gesturing: telling, asking, ordering)

speak, talk, write = communicate by writing, announce, type (on a keyboard), cry out, describe, argue, contest, petition, stammer, beg, mandate, veto, libel, preach, teach (education), fax, moo (animal noise)

- WN lists music production (a person singing/playing an instrument) as **creation**
- noises from inanimate objects ('creak', etc.) are **perception**
- contrast with **perception**, **cognition**

competition (fighting, athletic activities)

compete, fight (with someone), play (sports), referee, duel [supersedes social?; superseded by communication for rhetorical senses of 'attack', 'contend', etc.; superseded by contact for moments of physical contact: 'wrestle', 'box', 'punch', 'beat up']

consumption (ingesting, using, exploiting)

eat, picnic, thirst for (drink), digest (food), smoke (cigarette), use, waste [supersedes change and body?]

- we ***tasted*** the food (BUT: the food ***tastes*** yummy is perception)

contact (touching, hitting, tying, digging)

fasten, overlay, slice, rub, pinch, box, punch, shoulder, yank, bump, release, lug, airlift, use/operate (an instrument or machine) [supersedes stative and motion, e.g. move something by vehicle or by carrying it]

creation (sewing, baking, painting, performing)

create, bake (a cake), grow (agriculture), invent, write = produce a book, perform (give a performance)

emotion (feeling)

fear, anger, hope = wish, trust [difficult to separate from social and communication, e.g. ‘amuse’, ‘encourage’]

- some lists of emotions:
https://en.wikipedia.org/wiki/Contrasting_and_categorization_of_emotions

motion (walking, flying, swimming)

travel, leap (physically), fly, vibrate, rotate (physically) [some synsets, e.g. for ‘reach’, conflate literal and metaphorical senses under motion (metaphorical should be change)?]

perception (seeing, hearing, feeling)

see (visually), witness, feel (by touch), seem, thirst = feel thirsty, ache = feel physical pain, hallucinate, clang, twinkle (candle or bulb), creak (inanimate noise source)

- the food ***tastes*** yummy (BUT: we ***tasted*** the food is consumption)
- contrast with communication, cognition

possession (buying, selling, owning)

receive = acquire, lend, sell, purchase, rob, want/ask=charge (an amount for), have = own, possess (a piece of property)

social (social activities and events: law, politics, economy, education, family, religion, etc.)

meet (socially), celebrate, divorce, succeed (achieve success, or be successor to), respect = show respect towards, gerrymander, cheat (except in the competitive sense), spoil = mollycoddle

stative (being, having, spatial relations)

be, have = feature, stagnate, equal, necessitate, lack, span, contain (physically), underlie [superseded by contact? encircle/surround, cover = serve as cover for]

- what ***separates*** these things is...

- *X **compared** to Y*
- active subject usually a theme??

weather (raining, snowing, thawing, thundering)

rain, thunder, twinkle (star), warm up (climate)

Differentiation

perception, communication, cognition

- **communication** if there is necessarily a transfer of information from one party to another
 - ***showing** me various options*
- **perception** if the focus is on taking in information by one party (can often substitute “seem” or “feel”)
 - *they **seemed** more interested*
 - *it **sounded** like it’s done every day*
 - *it will **look** beautiful*
- **cognition** if about mentally processing information
 - ***rate** as five stars (no communication necessarily implied)*
 - *difficult to **see** what you’re paying for (= understand)*

Precedence relations

- { perception, consumption } > body > change
- motion > social > change
- emotion > change
- motion > { body, possession } (e.g., stand_up, bring)
- contact > { stative, motion }
- { contact, communication } > competition > social
- emotion > cognition

Groupings

- **GENERAL**
 - motion, change, creation
 - contact
 - stative
 - weather
- **PERSONS**
 - body, consumption
 - perception
 - cognition
 - emotion
 - social
 - possession
 - communication
 - competition

Specific decisions

- fall_ill, fall_asleep, die, injure, give_birth: `body`
- fall_in_love: `emotion`

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- have_been_to - as in visiting a location: `motion`
- cleft and existential 'be': `stative`
- give/receive a tattoo: `possession` ; give/take a lesson: `social`

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- wait: `cognition` if emphasis on expectation, `stative` if emphasis on not acting

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- be_the_epitome_of or the_epitome_of?
- feel: cognition if having an opinion, emotion if experiencing a feeling, perception if experiencing a physical stimulus

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- deal_with = come to grips with: emotion ; deal_with = interact_with somebody: social
- found something to be adj: cognition
- require/take/let/permit with an inanimate subject (i.e., it took 1 hour) stative , but when the subject and object are both people it is social
- pass time: ??
- save/keep/prevent from: stative
- like/love/hate etc. when conveying an opinion: emotion
- get/receive/give~service: social
- bother_with meaning go to the trouble to do something: social
- We need to revisit *die* and *fall ill* (body vs. change)
- have_pedicure, have_hair_done: body
 - We need to revisit *give/receive tattoo*, which is currently possession
- any commercial act (i.e., using their services): possession
- We need to revisit MWEs with *be*
- have_experience: stative

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- revision of body to take precedence over change (for changes in health, etc.)
- use/operate an instrument/machine: contact

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Several changes above, new section contrasting perception / communication / cognition , as well as:

- recommend, itemized (receipt), get_in_touch_with (a manager): communication
- beware of: cognition
- avoid:
 - (purposefully) **avoid** restaurant at all costs: cognition

- something was **avoided** = it fortunately failed to happen: **change**

- **social** :
 - sabotaging
 - went_above_and_beyond
 - bait_and_switching
 - **helped**_me _**through** difficult times
 - she **makes**_you _**feel**
 - worst service I ever **experienced**
- arrive/got=made_it/leave/brought_in (= carried): **motion**
- got_upgraded_to (a corner suite): **change**
- sports **related, including** (parts): **stative**

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- grab a cab: **possession**
- hard to find (restaurant): **cognition**
- do_research about a restaurant: **social**
- have_issues/problems: **cognition**
- use (someone's services): **possession**
- pay_attention: **perception**

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- order a sandwich: **communication** (though it is part of a larger scenario of dining that might be **possession** or **social**)

Remarks

When tagging in context, note that (unless it is an MWE) only the meaning of the verb should be characterized. So the verb 'rising' in 'temperatures are rising' should be tagged as a change verb, NOT as a weather verb.

Inherently negative verbs like 'avoid', 'remove', and 'refuse' receive a sense depending on the sort of activity that is not performed.

Issues:

- modals, quasi-modals, count as auxes: be_supposed_to, be_going_to, do not V
- all uses of 'do', other weakly collocated light verbs not contributing their own meaning??
- have warning about s.t.: perception?