Superframes Manual

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1 Introduction

Superframes is an annotation scheme for semantic roles. Like other such schemes, it is essentially about pinning down, in a machine-readable form, "who did what to whom". It is different from other such schemes, such as FrameNet (Baker et al., 1998), VerbNet (Kipper Schuler, 2005), PropBank (Palmer et al.,

Superframe	Roles					Sec.
SCENE	initial-scene	participant	scene	transitory-scene	target-scene	2.1
IDENTIFICATION		identified	identifier			2.2
ORDER		has-order	order			2.3
CLASS	initial-class	has-class	class		target-class	2.4
EXISTENCE			exists			2.5
TRANSFORMATION-CREATION			material		created	2.6
REPRODUCTION		original			copy	2.7
QUALITY		has-quality	quality			2.8
STATE	initial-state	has-state	state		target-state	2.9
DESTRUCTION		destroyed				2.10
EXPERIENCE		experiencer	experienced			2.11
ACTIVITY		is-active	activity			2.12
MARKER		has-marker	marker			2.13
ACCOMPANIMENT		accompanied	accompanier			2.14
ATTRIBUTE		has-attribute	attribute			2.16
DEPICTIVE		has-depictive	depictive			2.15
ASSET		has-asset	asset			2.17
CAUSATION		result	causer			2.18
RESULTATIVE		has-resultative	resultative			2.19
COMPARISON		compared	reference			2.20
CONCESSION		assertion	conceded			2.21
EXPLANATION		explained	explanation			2.22
LOCATION	initial-location	has-location	location	transitory-location	target-location	2.23
WRAPPING-WEARING		worn	wearer			2.24
ADORNMENT-TARNISHMENT	initial-surface	ornament	surface		target-surface	2.25
HITTING		hitting	hit			2.26
INGESTION		ingested		transitory-location	ingester	2.27
EXCRETION	excreter	excreted		transitory-location		2.28
UNANCHORED-MOTION		has-location		transitory-location		2.29
MEANS		has-means	means			2.30
MESSAGE		topic	content			2.31
PART-WHOLE	initial-whole	part	whole		target-whole	2.34
POSSESSION	initial-possessor	possessed	possessor		target-possessor	2.35
QUANTITY	1	has-quantity	quantity		3.1	2.41
SENDING		sent	sender			2.42
SEQUENCE		follows	followed			2.43
SOCIAL-RELATION	initial-social-relation	has-social-relation	social-relation		target-social-relation	2.44
TIME		has-time	time			2.47
NONCOMP		has-noncomp	noncomp			2.54
NONPARTICIPANT		has-nonparticipant	nonparticipant			2.55

Table 1: The superframes and their roles. Top-level superframes are shown in bold. Underneath, some superframes have special cases with partly renamed roles, included to make them more intuitive to apply.

2005), VerbAtlas (Di Fabio et al., 2019), or WiSER (Feng et al., 2022) in a number of ways. It aims to avoid a number of practical problems in annotating with those schemes. Here's how Superframes annotation works, in a nutshell:

- Every content word (verb, noun, pronoun, adjective, or adverb) is a predicate. Every predicate evokes one of a few dozen superframes, which determines its coarse semantic class and the possible role labels for its arguments.
- 2. The syntactic *dependents* of a predicate can be *core arguments*, in which case they get one of the role labels defined by the superframe of the predicate, or *external arguments* or *modifiers*, in which case they are treated as evoking their own frame in which the predicate serves as a core argument.
- 3. There are only two main core role labels per superframe.
- 4. For predicates denoting change (or lack thereof) over time, some superframes have *aspectual variants* with role variants that allow to distinguish participants before, during, and after an event. This avoids having Source and Target as roles in their own right, which indicate the time sequence but suppress information about the nature of the relation that is changing.
- Similarly, Superframes do not have the Agent role, which is often in conflict with roles indicating more specifically the agent's relation to other participants.
- 6. Doubt, ambiguity, and figurativity are systematically treated. If there is not one clear solution, the solution is to give two or more alternative labels.

Table 1 shows the superframes and their roles.

1.1 Core Arguments

The most prototypical predicate is a verb, and the simplest case is a verb with only one argument. It can for example denote an experience or an activity:

(1) Kim is sleeping_{EXPERIENCE}

(2) Kim is partying_{ACTIVITY}

With two core arguments, a verb denotes a relation that holds between them:

(3) Kim owns_{POSSESSION} a house

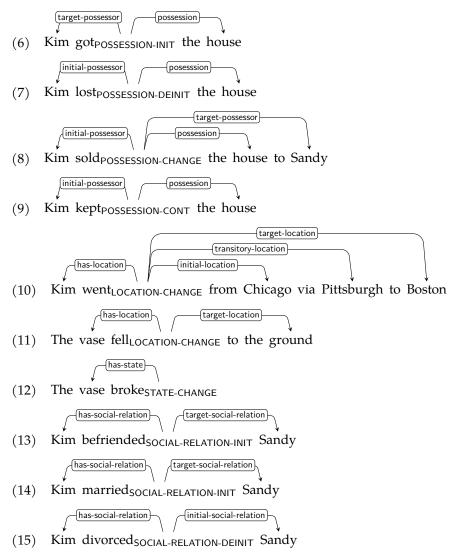
(4) The house belongs we are to Kim

(4) The house belongs_{POSSESSION} to Kim

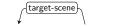
(5) Kim seems_{MESSAGE} happy

1.2 Aspect and Mode

Rather than a static relationship between two entities, many verbs (and other predicates) denote a change (or absence of change) in such a relationship. We sort such predicates into a few coarse aspectual classes. For example, initiation (-INIT) means a state is begun or worked towards, deinitiation (-DEINIT) means a state is ended, completed, or its end is worked towards, change (-CHANGE) combines both, where one state is replaced by another, and continuation (-CONT) means a state persists or is even intensified. Accordingly, roles with prefix target-, initial-, or transitory- mark participants at/beyond the end of, at the beginning of, or at some point during the event, respectively.



The SCENE superframe is often evoked by "light" verbs that contribute an aspectual or modal meaning. Thus, its aspectual variants are especially common.



(16) The concert beganscene-init



(17) The concert continued_{SCENE-CONT}

(18) The concert finished_{SCENE-DEINIT}



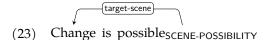
(19) The shouting intensified_{SCENE-CONT}

(20) The shouting $faded_{SCENE-DEINIT}$

(21) A coup was attempted_{SCENE-INIT}

In addition, we use the modal suffixes -NECESSITY and -POSSIBILITY. They can combine with aspectual suffixes.

(22) Change is necessary_{SCENE-NECESSITY}





(24) Kim owespossession-change-necessity Sandy money

1.3 Non-core Arguments

Core arguments always get role labels from the superframe the predicate evokes. But many verbs have more arguments. One common case is a subject that is presented as the causer of the scene. For example, compare (25) with (11). The core scene is the same (same superframe, same arguments). We now assume there is an additional CAUSATION scene with Kim as the causer and the core scene as the result. We denote this by giving Kim the causer role label, with an x- prefix to mark it as a non-core role.



(25) Kim threw LOCATION-CHANGE the vase to the ground

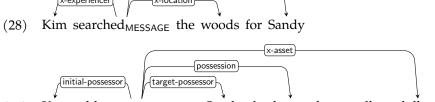


(26) Kim broke_{STATE-CHANGE} the vase

Two other common non-core arguments are the senders and recipients (experiencers) of messages.



Other non-core arguments are usually rather predicate-specific.



(29) Kim sold_{POSSESSION-CHANGE} Sandy the house for a million dollars

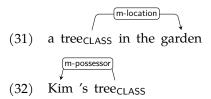
1.4 Modifiers

Like non-core arguments, modifiers are assumed to evoke an additional frame, and labeled with the role they fill in that frame, but with a prefix marking them as modifiers: m-.



1.5 Nonverbal Predicates

So far, we have only looked at verbal predicates. But of course, there are other types of predicates. An ordinary noun like *tree* evokes the CLASS frame, marking the entity it refers to as being a member of a class (in this case: the class of trees). There are no arguments here because the predicate itself doubles as a referent. However, the predicate can of course be modified:



Event nouns evoke event frames and have arguments:



Relational nouns evoke relational frames and have arguments:



Pronouns and names evoke the IDENTIFICATION frame, meaning that they identify their referent as some entity (via naming or anaphora resolution).

- (35) Kim_{IDENTIFICATION}
- (36) they_{IDENTIFICATION}

Predicate adjectives most typically denote states or qualities.

(38) the dog is
$$tired_{STATE}$$

With attributive adjectives, the dependency relation is reversed, and the role label is changed accordingly.

(40) the tired dog_{CLASS}

Similarly for adverbs denoting, e.g, manner (quality) or extent (quantity):

$$\begin{array}{c|c} & \begin{array}{c} \text{(has-location)} \text{(m-quality)} \\ \hline \downarrow & \bigvee & \downarrow \end{array}$$
 41) Kim ran_{Motion} fast

$$\frac{\text{(has-location)} \text{m-quantity}}{\sqrt{}}$$

(42) Kim ran_{Motion} far

1.6 Control Relations

spell out strategies for consistent detection (xcomp, MESSAGE/SCENE frames, special cases...)

Many constructions systematically introduce semantic predicate-dependent dependencies that do not correspond to (surface) syntactic dependencies. In such cases, we add those dependency links.

 $\dot{\text{Kim}}$ seemed to fly_{Motion} (raising)

(46)Kim entered the room singing_{MESSAGE} (depictive)

You're talking me silly_{STATE} (resultative) (47)

 $Kim\ has\ come\ to\ stay_{{\sf LOCATION-CONTINUATION}}\ (subjectless\, adverbial\, clause)$ (48)

 $Kim\ left\ after\ trashing_{STATE-CHANGE}\ the\ room\ (subjectless\, adverbial\, clause)$ (49)

 $\begin{tabular}{lll} \hline Kim is hard to love_{MESSAGE} & (tough construction) \\ \hline \end{tabular}$ (50)



the song I like MESSAGE (relative clause) (51)



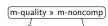
the question we raised without answering MESSAGE (parasitic gap) (52)

1.7 Figurativity and Idiomaticity

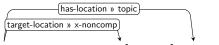
Difficulties in choosing frames often arise because a predicate literally evokes one frame, but is used in a way that perhaps fits another frame equally well or better. In such cases, annotate both the more literal frame and roles, followed by the >> operator, followed by the more figurative frame and roles.

This mechanism can be used to indicate that a modification may not be fully compositional:

primeval forest_{CLASS} (55)



(56) colored pencil_{CLASS}



(57) to laylocation-change » Message-Deinit aside my drawings

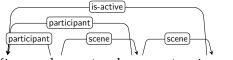
Superframes Reference

SCENE

A "meta" frame for predicates where the main frame is invoked by scene, and the predicate adds some temporal, aspectual, modal, etc., meaning, or just acts as a light verb. participant is assigned a role by scene. In the following examples, we show the annotations for both the matrix predicate and the embedded predicate in one graph.



Kim plays_{SCENE} tennis_{ACTIVITY}



Kim used_{SCENE} to play_{SCENE} tennis_{ACTIVITY}

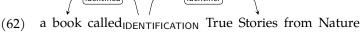
More examples can be found in Section 1.2.

IDENTIFICATION 2.2

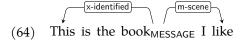
identifier identifies identified.

Evoked by pronouns, names, and other identifiers, as well as predicates denoting naming relationships.

- (60) I_{IDENTIFICATION} saw a picture
- I can distinguish China_{IDENTIFICATION} from Arizona



Predicates that evoke other frames can still use x-identified to mark the copula subject as identified:



2.3 ORDER

order indicates the order that has-order has in some sequence.



2.4 CLASS

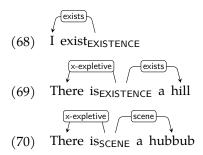
class indicates the class of entity that has-class represents.

Most prototypically evoked by common nouns with no arguments.

(67) swallowing an animal_{CLASS}

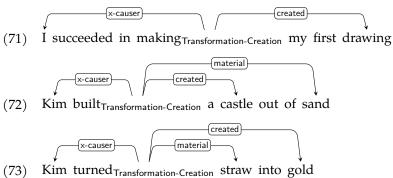
2.5 EXISTENCE

exists exists. Use this only for non-scene entities; for scenes, use the SCENE frame.



2.6 TRANSFORMATION-CREATION

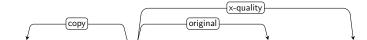
Special case of EXISTENCE-INIT where rlcreated (aka target-exists) is newly created from material, or material is transformed to become created.



REPRODUCTION

Special case of EXISTENCE-INIT where original continues to exist, and a (modified) copy (aka target-exists) comes into existence.

original Here is a copy_{Reproduction} of the drawing



This is a translation_{Reproduction} of the pamphlet into English

2.8 **QUALITY**

quality indicates a (permanent) quality/property/manner of has-quality.

when I was six years oldQUALITY (76)

a magnificent picture_{MESSAGE}



I pondered $_{\mbox{\scriptsize MESSAGE}}$ deeply over the adventures of the jungle

2.9 **STATE**

state indicates a (temporary) state of has-state.

(79)Boa constrictors swallow their prey wholeSTATE

they sleep_{STATE} (80)

-(x-causer)

they swallow their prey whole without chewing STATE-CHANGE it (81)

the six months that they need for $digestion_{STATE-CHANGE}$ (82)

(83)And that hasn't much improved_{STATE-CHANGE} my opinion of them

2.10 DESTRUCTION

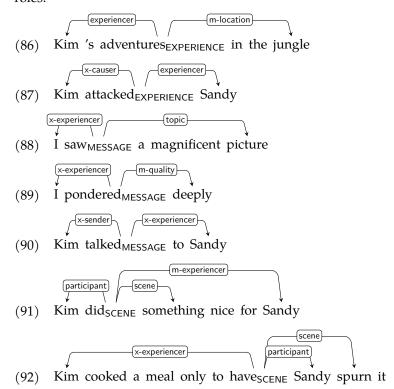
Special case of STATE-CHANGE where destroyed (aka has-state) goes out of existence.



2.11 EXPERIENCE

experienced indicates an experience that experiencer undergoes.

Used for dynamic scenes where the experiencer is not necessarily active, and that cannot well be framed as a state change. Also used for sensory and mental perception, addressees in communication, beneficiaries, and for "bystander" roles.



2.12 ACTIVITY

is-active actively participates in activity.

Used for dynamic scenes where is-active has agency and that cannot well be framed as a state change.

(93) Kim worked_{ACTIVITY}

(94)Kim partied_{ACTIVITY}

(95)Kim had sex_{ACTIVITY}

after some $work_{\mbox{\scriptsize ACTIVITY}}$ with a colored pencil (96)

(97)I devoted myself to geography_{ACTIVITY}

MARKER 2.13

marker marks has-marker for modal strength, aspect, discourse function, etc.

Umbrella frame for various kinds of predicates that denote properties of propositions rather than scenes, often realized as "sentence adverbs".



(98) Fortunately Kim probably even knows_{MESSAGE} that

2.14 **ACCOMPANIMENT**

accompanier accompanies accompanied, meaning that it occurs together with it or participates equally in the same scene.

veggies_{CLASS} with rice

(100) The veggies come_{ACCOMPANIMENT} with rice

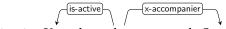
Kim added_{ACCOMPANIMENT-INIT} rice to the veggies

(102)Rolling thunder accompanies_{ACCOMPANIMENT} the rain

Often, the accompanier denotes not the accompanying scene but an entity participating in it, and must be metonymically understood as the scene.



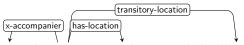
(103) Kim cycled_{LOCATION-CHANGE} to Rome with Sandy



(104) Kim danced_{ACTIVITY} with Sandy



(105) Kim had_{SCENE} sex with Sandy



(106) Kim chased_{Motion} Sandy around the block





(108) Kim accompanied_{ACCOMPANIMENT} Sandy on the piano

2.15 **DEPICTIVE**

Special case of ACCOMPANIMENT where depictive (aka accompanier) assigns a participant of has-depictive (aka accompanied) a role (cf. Sec. 1.6).



(109) Kim entered_{LOCATION-INIT} the room singing_{MESSAGE}

2.16 ATTRIBUTE

In a scene has-attribute, attribute is the part or attribute of one or more participants that is most directly involved in the scene.



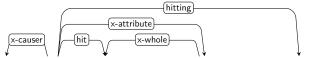
(110) Kim exceeds_{COMPARISON} Sandy in height_{QUALITY}



(111) That is great_{QUALITY} in terms of ROI_{QUALITY}



(112) Kim ist auf den Kopf_{CLASS} gefallen_{HITTING}



(113) Kim $hit_{HITTING}$ Sandy on the $head_{CLASS}$ with a stick

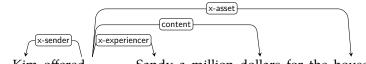
Control relations?

2.17 ASSET

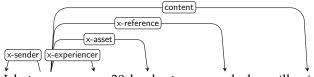
In a scene has-asset, asset is given or offered in an exchange or wager.



(114) Kim bought_{POSSESSION-CHANGE} the house for a million dollars



(115) Kim offered $_{\mbox{\scriptsize MESSAGE}}$ Sandy a million dollars for the house



(116) I bet_{MESSAGE} you 30 bucks to an apple he will win

2.18 CAUSATION

causer causes result.



(117) Kim broke_{STATE-CHANGE} the glass



(118) The knife $cut_{STATE-CHANGE}$ the bread



(119) Kim cut_{STATE-CHANGE} the bread with a knife



(120) The war caused_{CAUSATION} a famine



There was_{SCENE} a famine because of the war (121)



(122)Der Wasserdruck stiegquantity-change , wodurch der Brunnen überfloss



Die Qualität ist der Motivation geschuldet_{CAUSATION} (123)



Kim went_{LOCATION-CHANGE} to town because they wanted to buy food (124)

Note how the last example expresses a purpose, but expresses it as a cause, so m-causer lis the right label to use. Compare this to construal as a purpose:



Kim $went_{LOCATION-CHANGE}$ to town to buy food (125)

RESULTATIVE 2.19

Special case of CAUSATION where resultative (aka result) assigns an argument of has-resultative (aka causer) a role. We treat the English resultative construction as a valency-changing operation that adds one or two arguments to the matrix predicate, so we use x-resultative rather than m-resultative.



Kim hammered_{HITTING} the metal flat_{STATE} (126)



Kim sneezed_{EXPERIENCE} the napkin off the table_{CLASS}



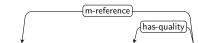
(128)Kim painted_{ADORNMENT-TARNISHMENT} the room red_{QUALITY}



COMPARISON 2.20

compared is characterized with respect to reference.

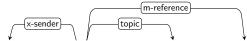
Examples of comparing scenes:



(129) Compared to Sandy, Kim is tall_{QUALITY}

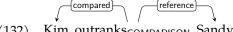


(130)Sandy is short_{QUALITY} whereas Kim is tall

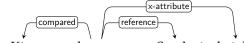


They demonize $_{\mbox{\scriptsize MESSAGE}}$ the left while doing nothing about the right (131)

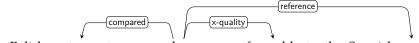
Examples of comparing non-scene entities:



(132) Kim outranks_{COMPARISON} Sandy



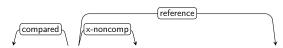
Kim exceeds_{COMPARISON} Sandy in height (133)



The Polish restaurant compared_{COMPARISON} favorably to the Spanish one (134)



Kim compared_{COMPARISON} Coke to Pepsi



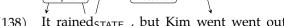
Kim rancomparison afoul of Fielding 's constraints (136)

CONCESSION 2.21

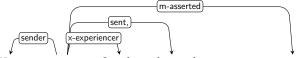
Special case of COMPARISON, where compared is what's asserted and reference is what's conceded.



(137)Kim went_{LOCATION-CHANGE} out despite the rain



It $rained_{\mbox{\scriptsize STATE}}$, but Kim went went out (138)

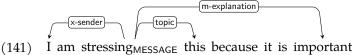


(139) Kim sent_{SENDING} Sandy a letter but it never arrived

m-conceded Kim came_{LOCATION-CHANGE} although Sandy had told them not to (140)

2.22 **EXPLANATION**

explanation explains explained, but is not a cause, but, e.g., a purpose.

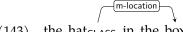




(142)Kim went_{LOCATION-CHANGE} to town to buy_{POSSESSION-CHANGE} food

LOCATION 2.23

Describes has-location as located or moving wrt. respect to location.



(143)the hat_{CLASS} in the box



(144) Kim lives_{LOCATION} in Boston



(145) Kim went_{LOCATION-CHANGE} from the living room through the door into the kitchen



Kim placed_{LOCATION-CHANGE} the hat on the table

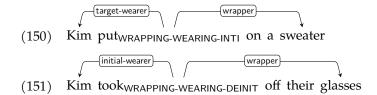
2.24 WRAPPING-WEARING

Special case of LOCATION where wearer (aka location) wears or is wrapped in wrapper (aka has-location).



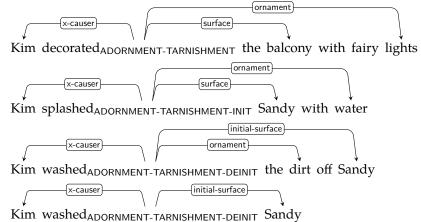


The shroud wrapswrapping-wearing the scepter (149)



2.25 **ADORNMENT-TARNISHMENT**

Special case of LOCATION where ornament (aka has-location sits on surface (aka location).



2.26 HITTING

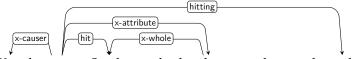
Special case of LOCATION-INIT where hitting (aka has-location) comes into contact with hit (aka target-location).



(153)Kim hit_{HITTING} Sandy with a stick



The stick hit_{HITTING} Sandy (154)

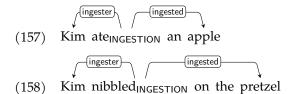


(155)Kim hit_{HITTING} Sandy on the head_{CLASS} with a pool noodle



INGESTION

Special case of LOCATION-INIT where ingester (aka target-location) ingests ingested (aka has-location).



2.28 **EXCRETION**

Sepcial case of LOCATION-DEINIT where excreter (aka initial-location) excretes excreted (aka has-location).



2.29 **UNANCHORED-MOTION**

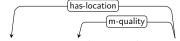
Special case of LOCATION-CHANGE where no initial or target location is indicated.



(161)I learned to pilot_{UNANCHORED-MOTION} airplanes



(162) Kim is dancing UNANCHORED-MOTION around the room with Sandy



Kim is an avid unicyclist_{UNANCHORED-MOTION} (163)

define clearly when dancing etc. is UNANCHORED-MOTION and when it is ACTIVITY

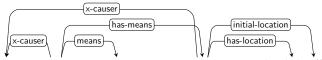
2.30 MEANS

has-means is a scene caused by something via an intermediary means.

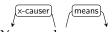


(m-means) surface

(165) Kim painted_{ADORNMENT-TARNISHMENT} the room by exploding a paint bomb



(166)Kim used_{MEANS} a pen to get_{LOCATION-DEINIT} the lid off



(167)You used_{MEANS} me!

2.31 **MESSAGE**

A message about topic with content content is expressed or received or just exists in recorded form. When content and topic are both realized, content must assign a role to topic.

2.31.1 Expression

x-sender $Kim\ yelped_{MESSAGE}$ (168)

Kim said_{MESSAGE}: it 's fine (169)



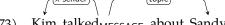
(170)Kim said_{MESSAGE} it was fine



(171) Kim called_{MESSAGE} Sandy a liar_{MESSAGE}



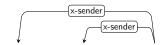
Kim told_{MESSAGE} Sandy a secret (172)



(173) Kim talked_{MESSAGE} about Sandy



(174) Kim talked_{MESSAGE} shit_{MESSAGE} about Sandy



(175) Kim and Sandy conversed_{MESSAGE}

(176) Kim conversed_{MESSAGE} with Sandy

2.31.2 Gesture



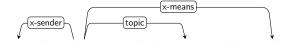
(177) Kim curtseyed_{MESSAGE} to the Queen



(178) Kim shook_{UNANCHORED-MOTION} » MESSAGE their head no

2.31.3 Performance

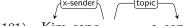
Performance of a work of art is framed as MESSAGE where the work of art is the topic.



(179) Kim played_{MESSAGE} a little tune on their tuba



(180) They performed_{MESSAGE} the play



(181) Kim sang_{MESSAGE} a song

2.31.4 Depiction

 $\sqrt{\text{x-sender}}$ $\sqrt{\text{topic}}$ (182) Kim drew_{MESSAGE} a heron

topic

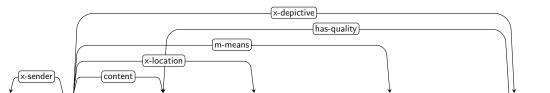
(183) a picture MESSAGE of the heron

When the object is a work of art, frame it as TRANSFORMATION-CREATION instead:



2.31.5 Recording





(186) Kim $wrote_{MESSAGE}$ the message onto a piece of paper with a pen in big red letters_{QUALITY}



(187) The concert was recorded_{MESSAGE} on tape

2.31.6 Perception

We also frame perception as MESSAGE, including mental and volitional perception.

(188) Kim saw_{MESSAGE} a flower



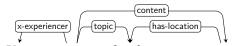
(189) Kim found_{MESSAGE} the flower beautiful_{QUALITY}



(190) Kim thinks_{MESSAGE} Sandy is a liar



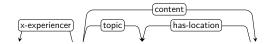
(191) Kim thinks_{MESSAGE} Sandy a liar_{MESSAGE}



(192) Kim saw_{MESSAGE} Sandy swim_{UNANCHORED-MOTION}



(193) Kim wants_{MESSAGE} to swim_{UNANCHORED-MOTION}



(194) Kim wants_{MESSAGE} Sandy to swim_{UNANCHORED-MOTION}



(195) Kim seems_{MESSAGE} happy_{MESSAGE}



(196) Kim seems_{MESSAGE} happy_{MESSAGE} to Sandy



The Thought Police observed MESSAGE Winston (197)



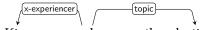
(198) Kim studies_{MESSAGE} linguistics



(199) Kim taught_{MESSAGE} Sandy Spanish



(200)Sandy is a professor MESSAGE of linguistics



(201) Kim measured_{MESSAGE} the elasticity



The jury found_{MESSAGE} Kim guilty_{SCENE} of the crime_{ACTIVITY}

MESSAGE-INIT 2.32

TBD

MESSAGE-DEINIT 2.33

TBD

2.34 **PART-WHOLE**

TBD

2.35 **POSSESSION**

TBD

POSSESSION-INIT 2.36

TBD

POSSESSION-DEINIT 2.37

TBD

2.38 POSSESSION-CHANGE TBD 2.39 POSSESSION-CHANGE-NECESSITY TBD 2.40 POSSESSION-CONTINUATION TBD 2.41 QUANTITY TBD 2.42 SENDING TBD 2.43 SEQUENCE TBD 2.44 SOCIAL-RELATION TBD 2.45 SOCIAL-RELATION-INIT TBD 2.46 SOCIAL-RELATION-DEINIT TBD 2.47 TIME TBD 2.48 SCENE-INIT TBD 2.49 SCENE-DEINIT TBD 2.50 SCENE-CONTINUATION

TBD

2.51 SCENE-PREVENTION

TBD

2.52 SCENE-NECESSITY

TBD

2.53 SCENE-POSSIBILITY

TBD

2.54 NONCOMP

TBD

2.55 NONPARTICIPANT

move resultatives here

TBD

3 Memos

3.1 Prefer Core over Non-core Arguments

When an argument fills both a core and a non-core role, it is more important to annotate the former.

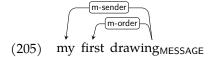




(204) Kim drove_{LOCATION-CHANGE} the car to Boston

3.2 Arguments Determine Frames

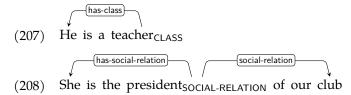
The most important criterion in choosing a frame for a predicate is that there should be suitable roles for the predicate's arguments, even if they are unrealized in the annotated instance. For example, while *drawing* denotes a CLASS of things, it can occur with a prepositional argument denoting a topic, so MESSAGE is a better choice.



3.3 Participant Nouns

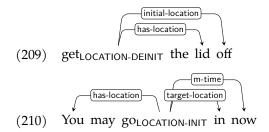
Some nouns denote a person who participates in a specific type of scene in a specific type of role. In such cases, use the most appropriate frame for that scene. For example, in a narrative where the narrator has just been criticized by a stranger, you could annotate as follows:

In other cases, such nouns rather denote a person's profession or expertise or their role in a social context:



3.4 Particle Verbs

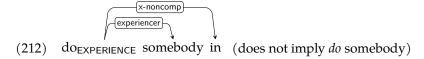
In UD, particle verbs are connected to their particle via the compound:prt relation. If the meaning is spatial, this dependency is labeled with initial-location or target-location.



In semi-non-compositional particle verbs, where the particle adds a partially predictable but nonspatial meaning to the verb, use an appropriate role, e.g., x-marker if the meaning is aspectual.



In fully non-decompositional particle verbs, where the meaning is not predictable, use x-noncomp.



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