

Fig. 1

text

Example Syntactic Dependency Relations:  
 - object and subject (context: "is") [3a]  
 - appositive of a noun (appositional modifier) [2b]

Example Syntactic Dependency Relations:  
 - object and subject (context: "contains"/"comprises"/"has") [3a]  
 - attributive adjectival modifier [2a]  
 - predicative adjectival modifier [2a]  
 - adverbial modifier [2a]  
 - possessive or genitive modifier of a noun (gen) [1]  
 - prenominal modifier of a noun [1]  
 - indirect object and object [3b]  
 - unit of distance measure / unit of repetition / unit of size measure / unit of time measure [4d]  
 - adjectival complement [4e]  
 - parataxis [4h]

Example Syntactic Dependency Relations:  
 - object and/or subject [3a/3b] (object: direct object, implied preposition "that")  
 (subject: subject of a verb, expletive/filler subject)

Example Dependency Relations:  
 - subject and measure distance [3a]  
 - object of preposition / subject of preposition [3c]  
 - prepositions (e.g. on / at / when) [4a]  
 - clausal complement [4f]  
 - conjunctions (and/or) [3d]

Example Syntactic Dependency Relations:  
 - definite article [0a]  
 - noun has a determinate [0b]  
 - attributive adjectival modifier [2a/0c]  
 - adverbial modifier [2a/0c]  
 - numeric modifier / unit of distance measure / unit of size measure / unit of time measure [0d]  
 - quantity modifier [0e]  
 - expletive/filler subject [0f]  
 - pronoun [0g]  
 - adjectival complement [0h]  
 - extractQualities [4g]  
 - has date [0j]  
 - non explicit pronouns [0k]

Example Syntactic Dependency Relations:  
 - clausal complement [0i]

**semantic relationship**  
 (semantic network connections)

**word**  
 (semantic network nodes)

Concept Definition  
 (concept-concept)

Property Link  
 (entity-property)

Action Link  
 (entity-action-entity)

Condition Link  
 (entity-condition-entity)

Property Definition  
 (property-concept)

Action Definition  
 (action-concept)

Condition Definition  
 (condition-concept)

Entities

Concept Entity  
 (e.g noun)

Property Entity  
 (e.g adjective)

Action Entity  
 (e.g verb)

Condition Entity  
 (e.g preposition)

**Translator Execution Order  
(for each sentence)**

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put syntactic information into array (e.g. date, grammatical tense, plurality, definite articles, persons, gender, pronouns)
locate/add all entities (parse relations and identify entities)
identify comparison variable
switch argument/functions where necessary (reformat relations)
identify entity types (define entities as objects, subjects, and being possessive of properties. * do not define entities as properties at this stage)
link references (eg his/her with joe/emily)
define negative relations (make negative) (eg ...saved by not having a...) [0z2]
define properties (objects/subjects with explicit properties) (eg Truffles which are picked are tasty) [0z]
define properties (definite nouns) (eg the house) [0a]
define properties (nouns with determinates) (eg a house / the house) [0b]
define properties (adjectives of instances) (eg locked door, cheetahs run quickly) [0c]
define properties (quantity mods) [0e]
define properties (expletives) [0f]
define properties (pronouns) [0g]
define properties (adjectival complement) [0h]
define properties (clausal complement) [0i]
define properties (has time) [0j]
define properties (non explicit pronouns) [0k]
link properties (possessive relationships) (eg joe's bike)[1]
link properties (descriptive relationships) (eg joe is happy) [2a]
link entity definitions (appositive of nouns only) (eg the bird, a robin, ...) [2b]
link entities, properties and actions [3a] (define dependent subject-object definition/composition/action relationships)
link entities, properties and actions [3b] (define independent subject/object action relationships)
link properties (define indirect objects) [3c]
link properties (object/subject of preposition) [3d]
define conjunction conditions (and/or) [3e]
link property/action conditions (define property/action conditions) [4a]
extract dates [4b]
extract quantities [4c]
extract measures and link properties (measure-quantity relationships) [4d]
define property compliment conditions [4e]
define action compliment conditions [4f]
extract qualities [4g]
link properties (parataxis) [4h]

FIG. 3

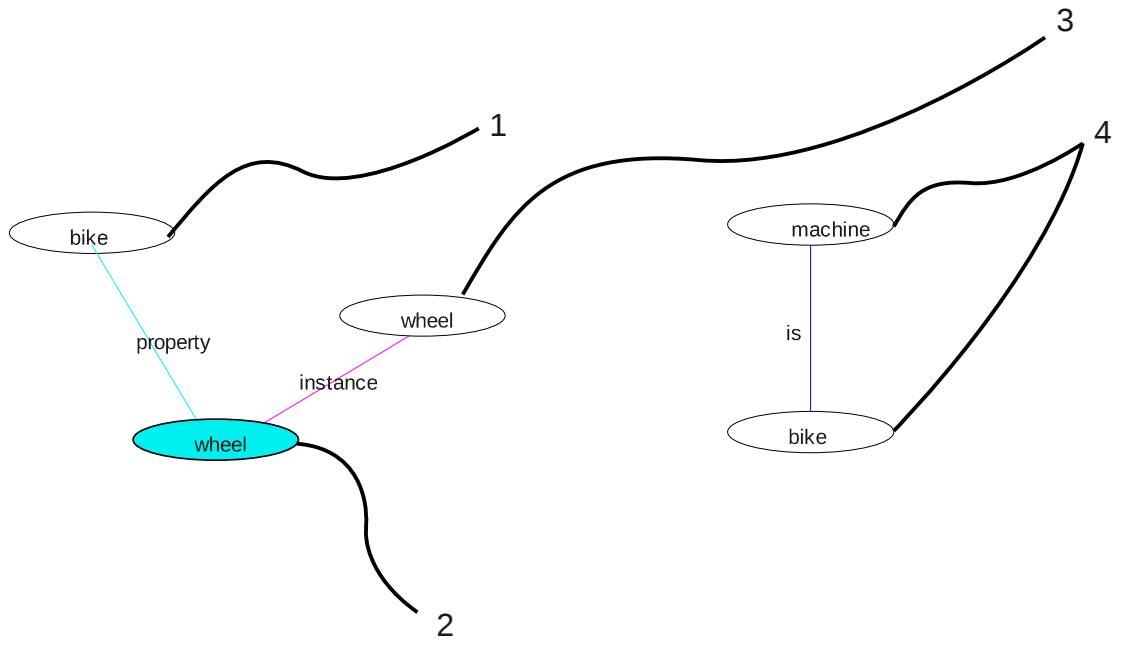


Fig. 4

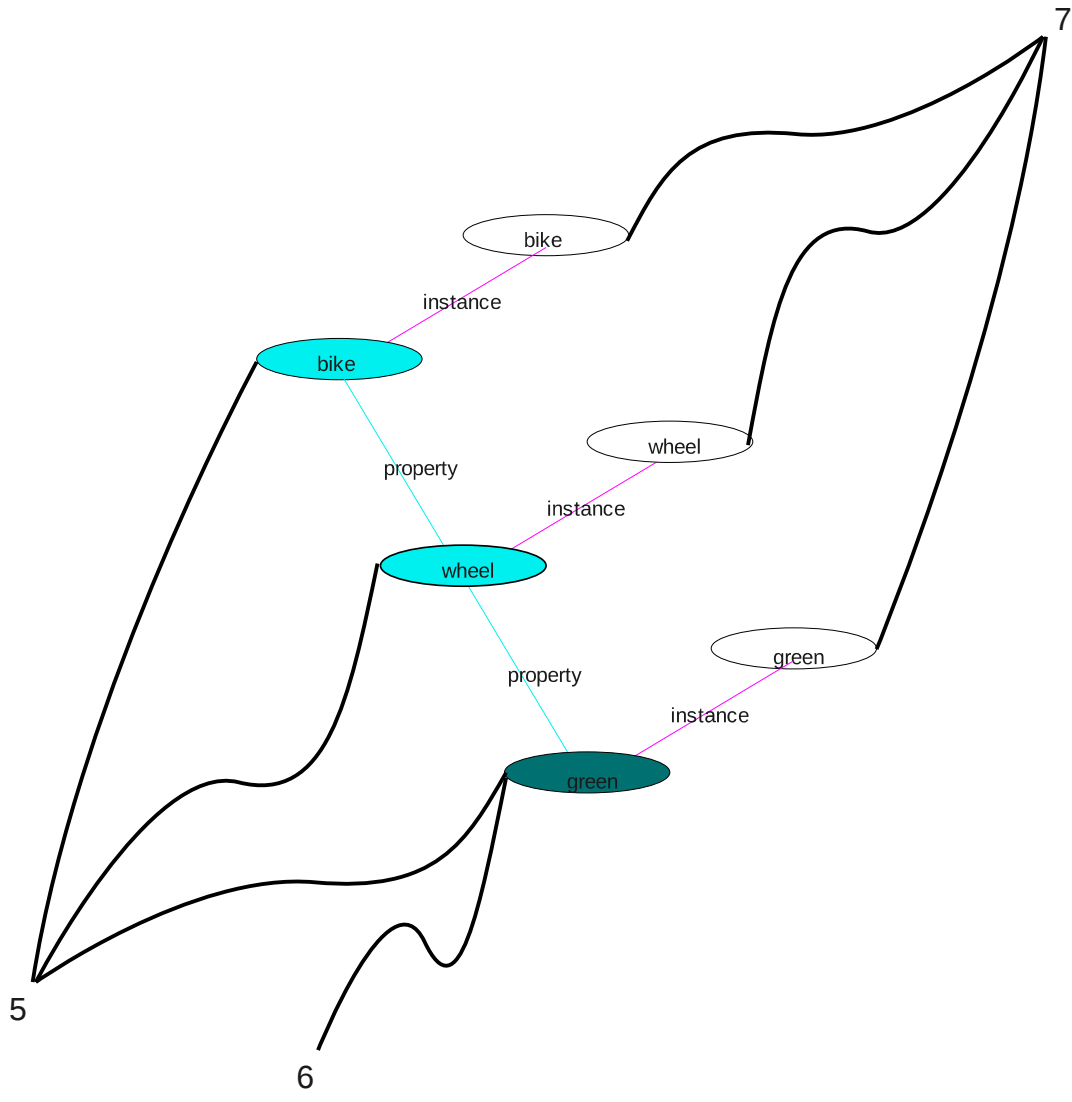


Fig. 5

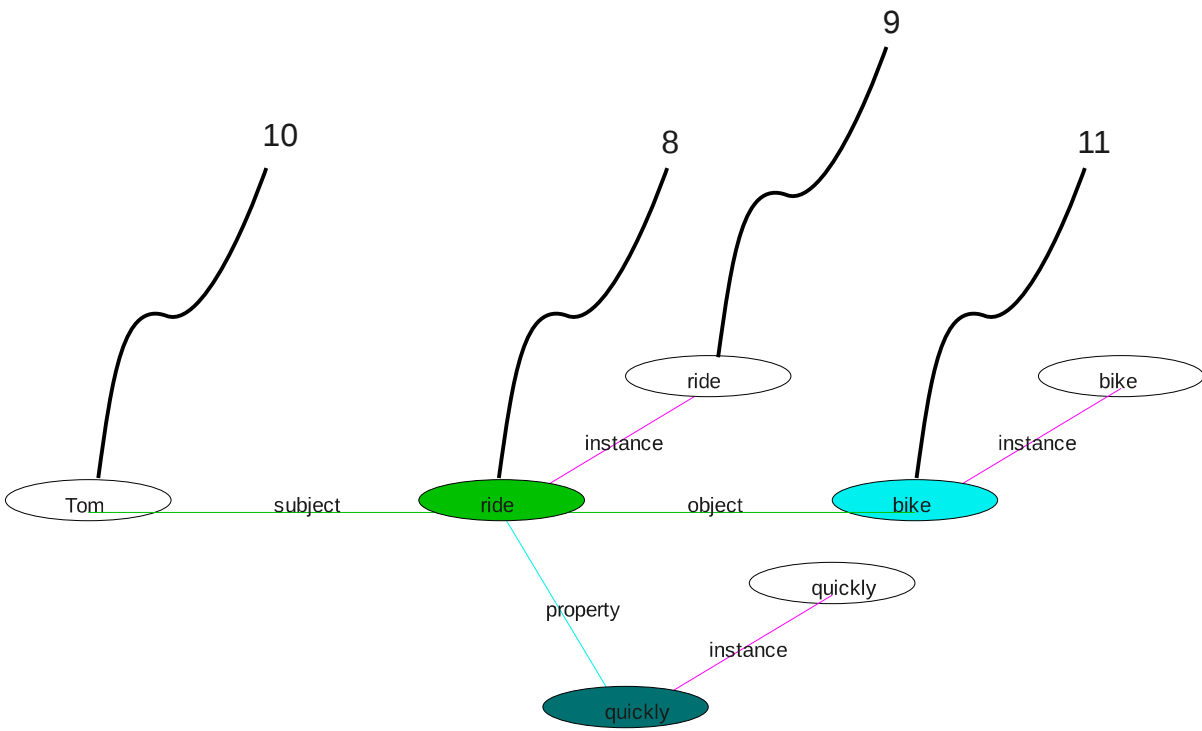


Fig. 6

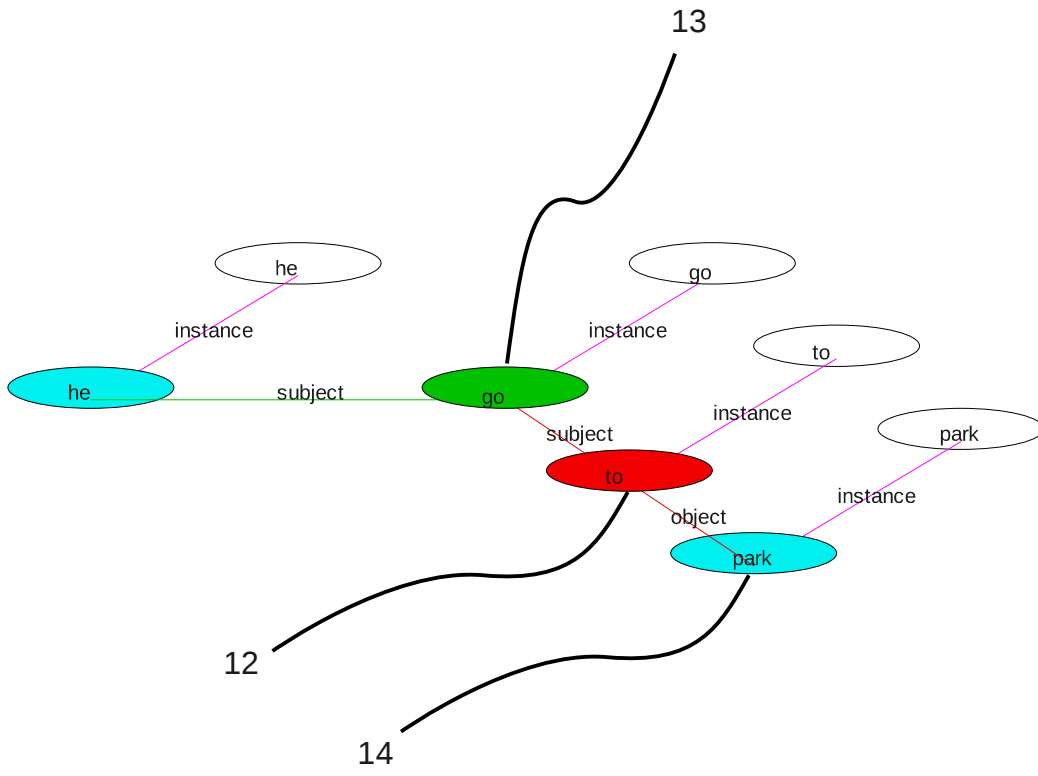


Fig. 7

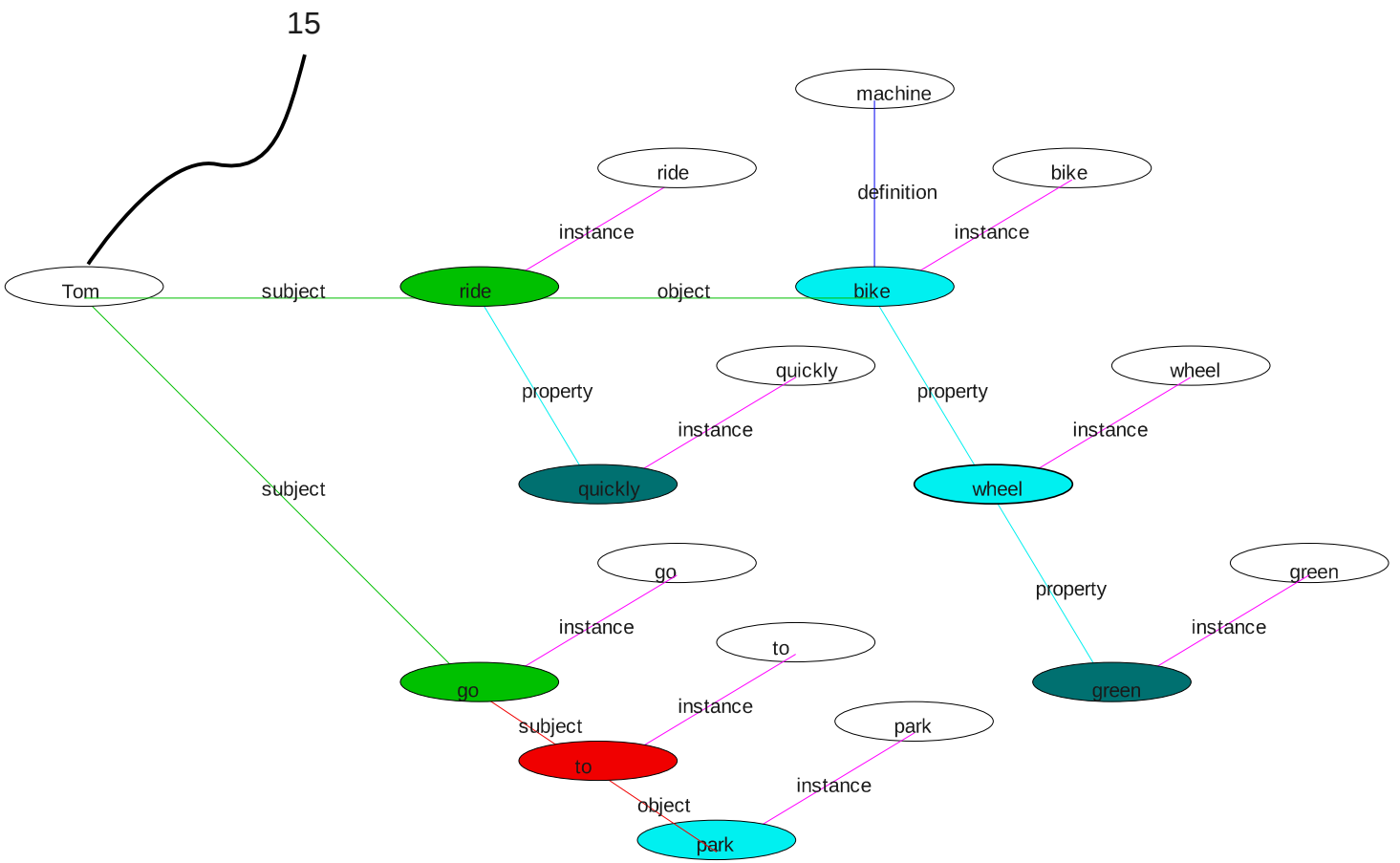


Fig. 8



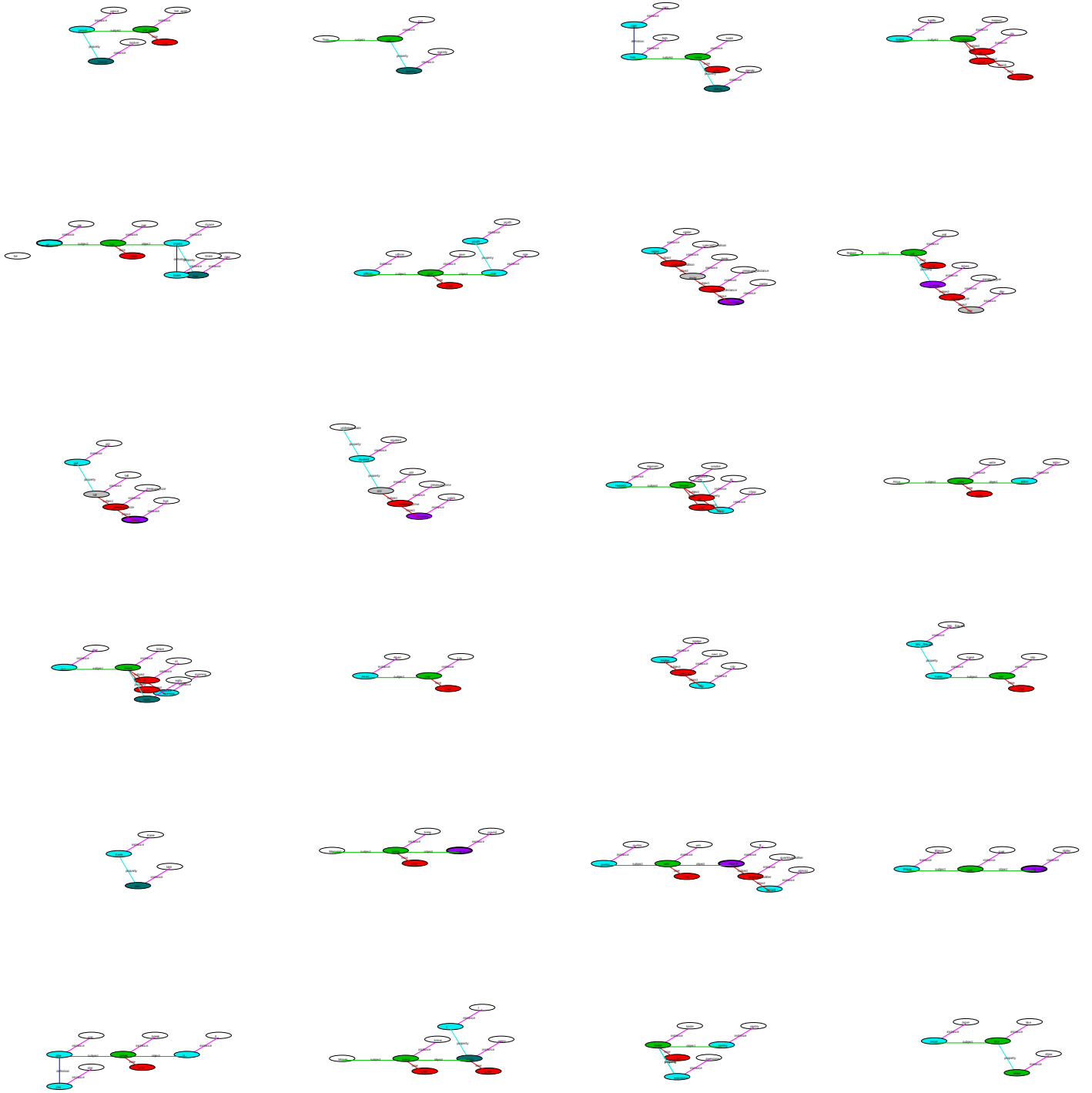


Fig. 9

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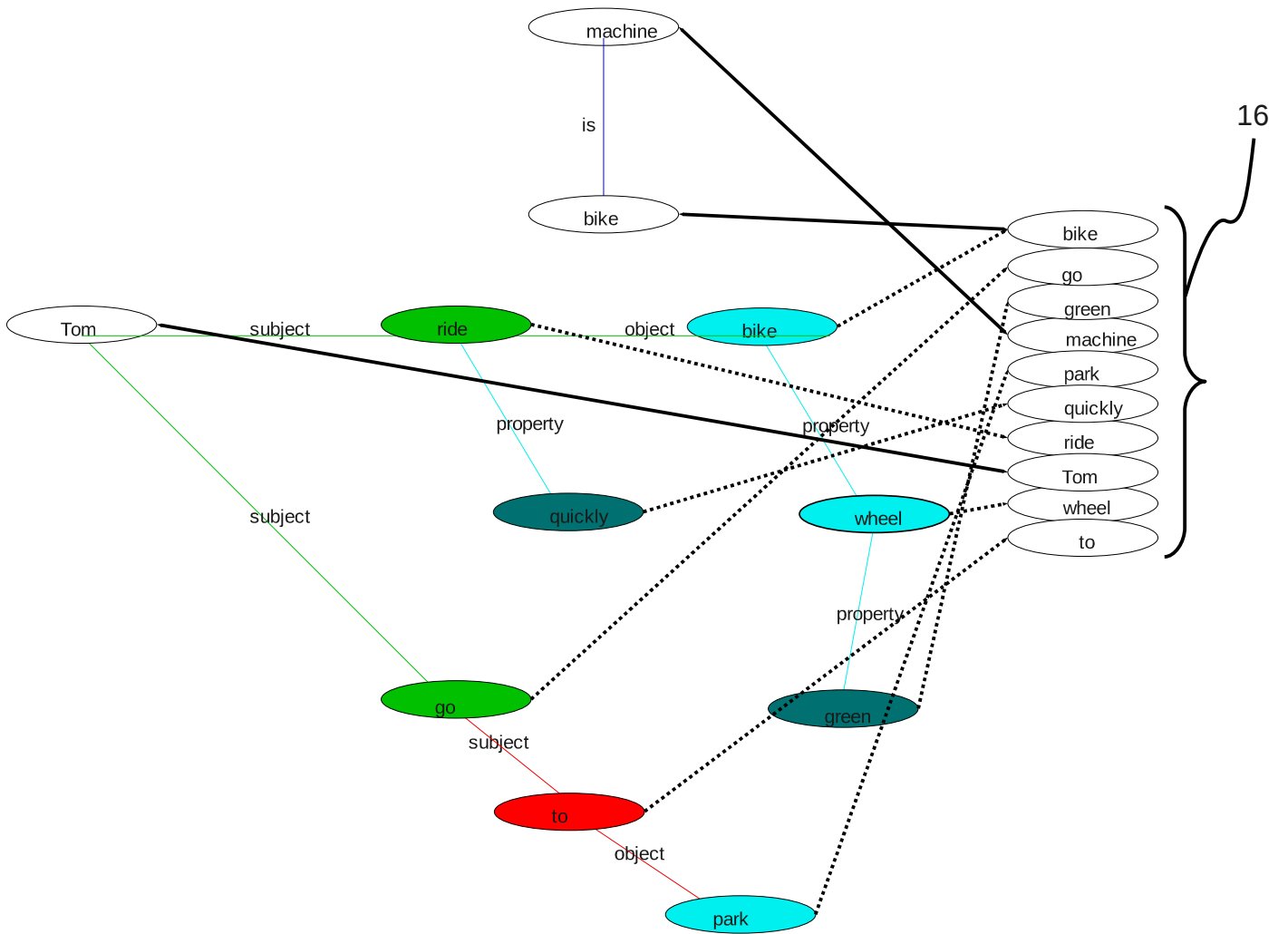


Fig. 10

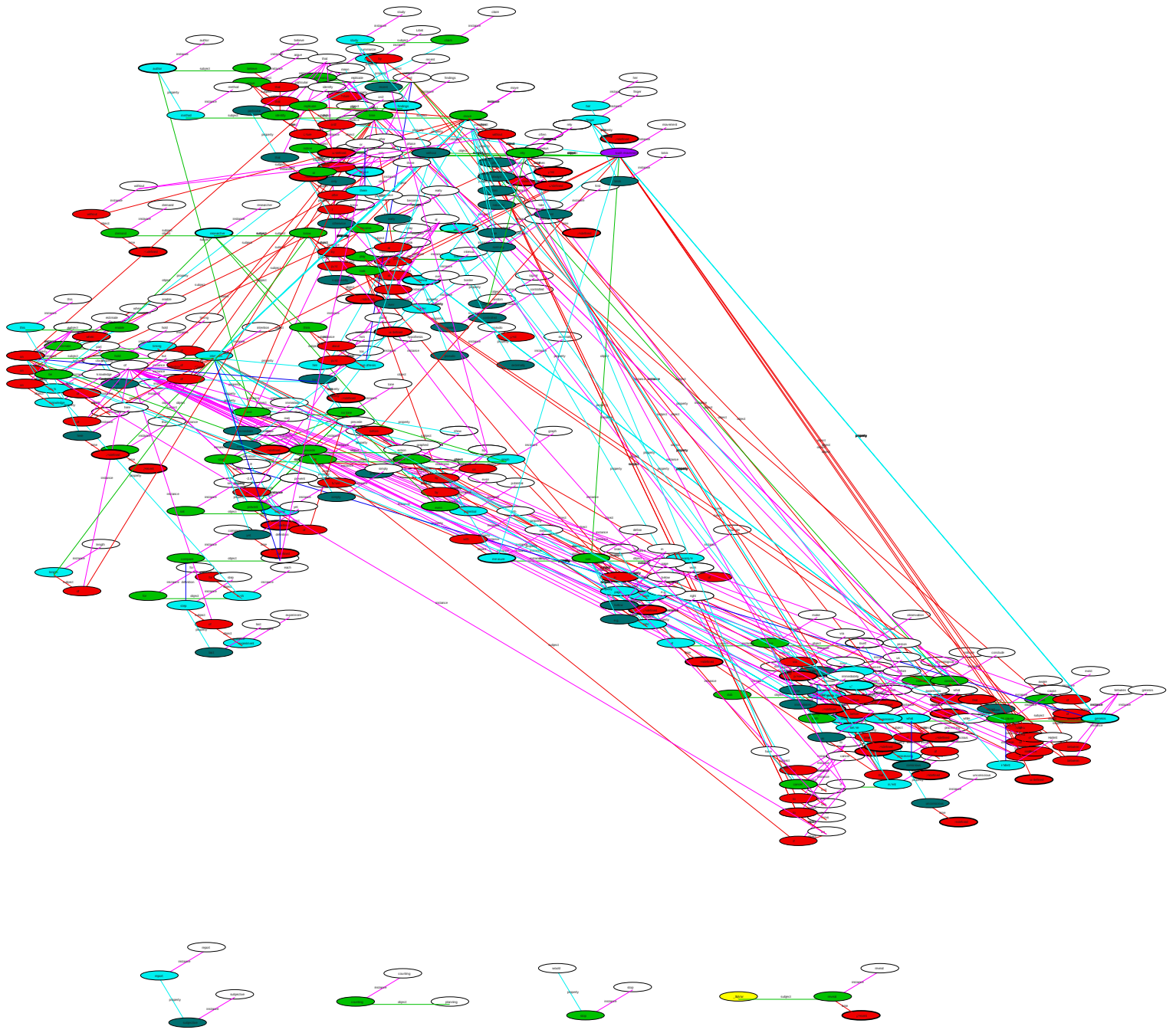


Fig. 11

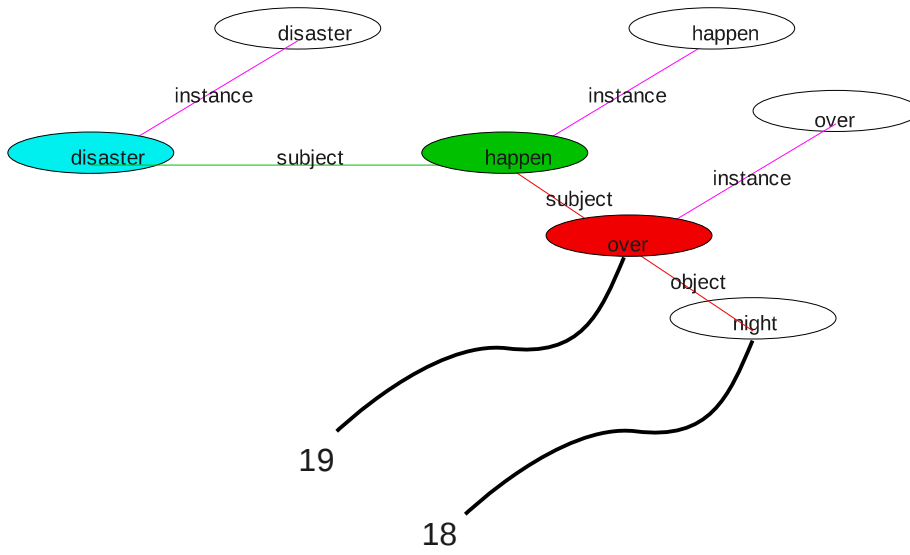
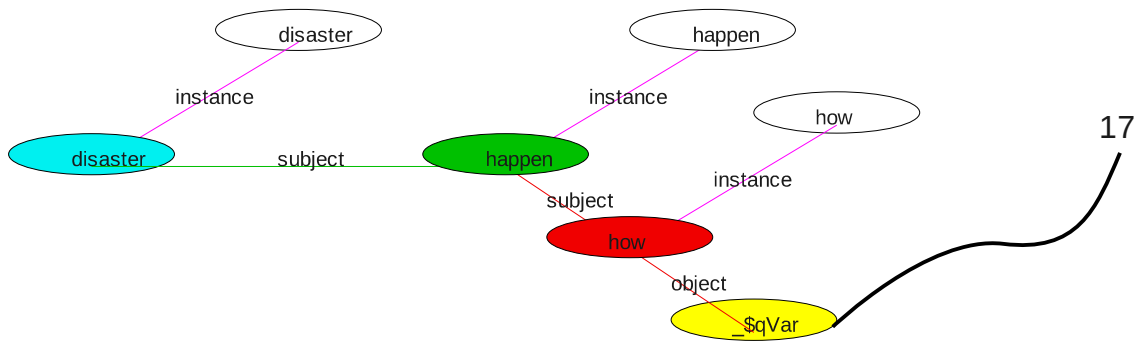


Fig. 12

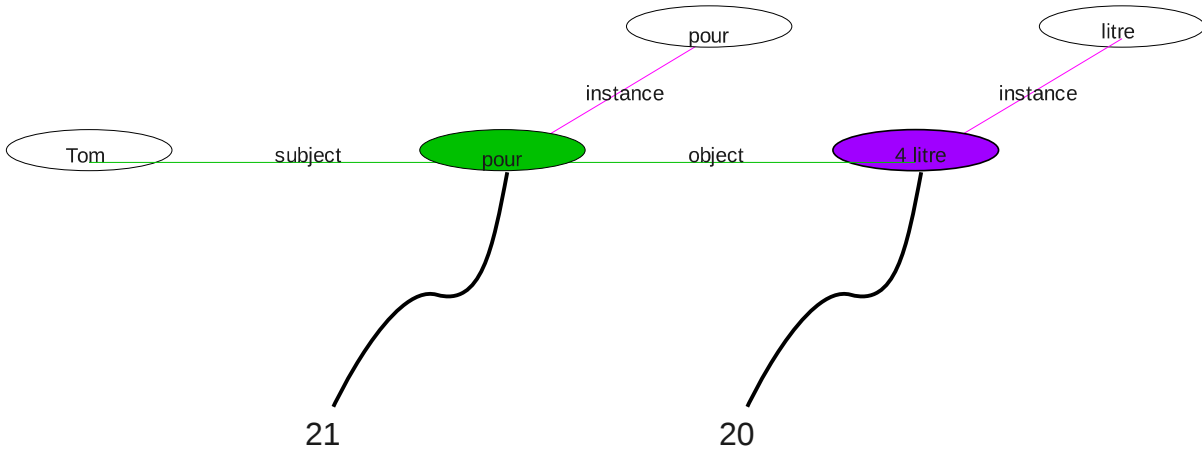
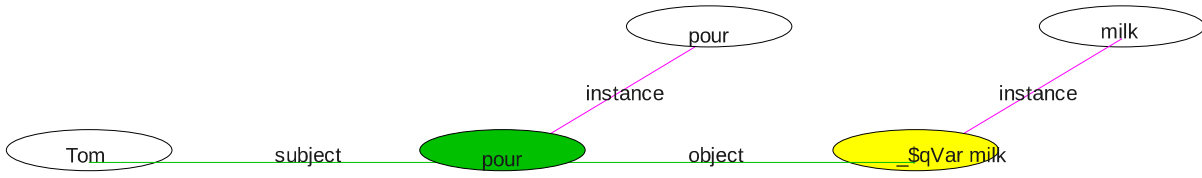


Fig. 13

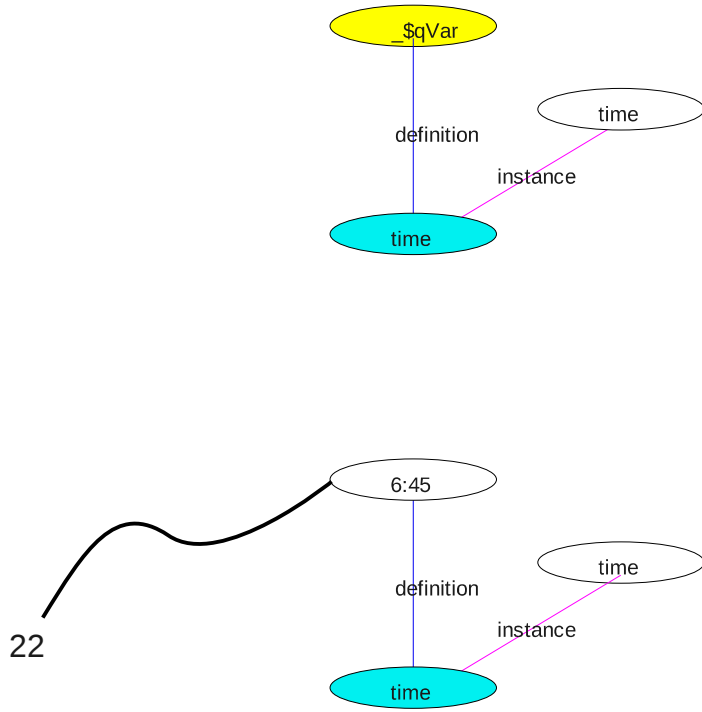


Fig. 14

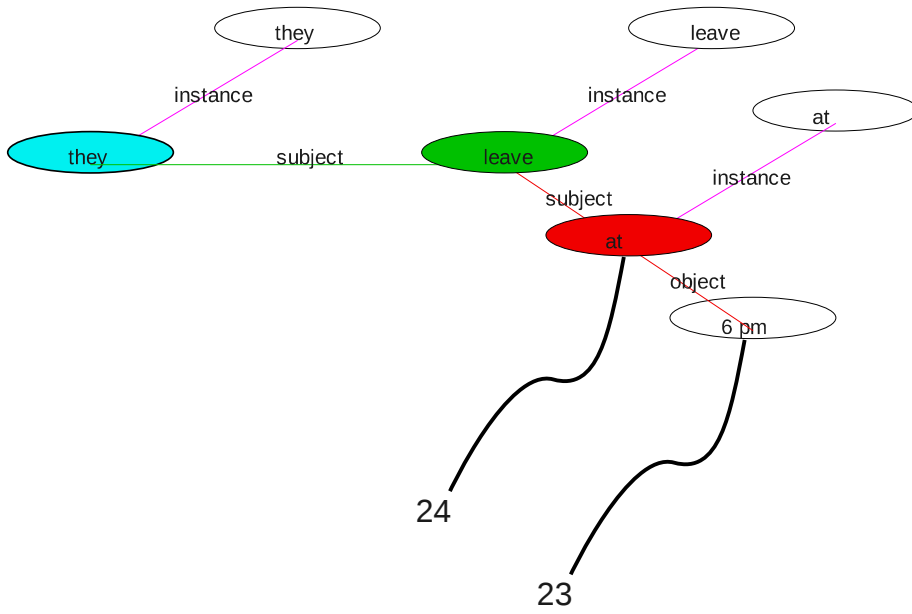
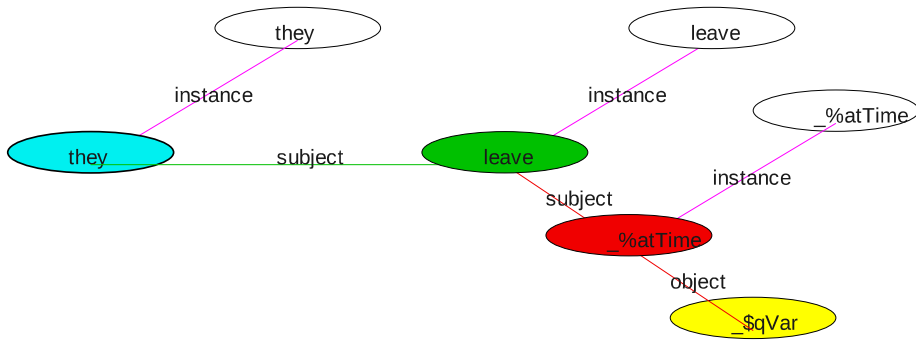


Fig. 15

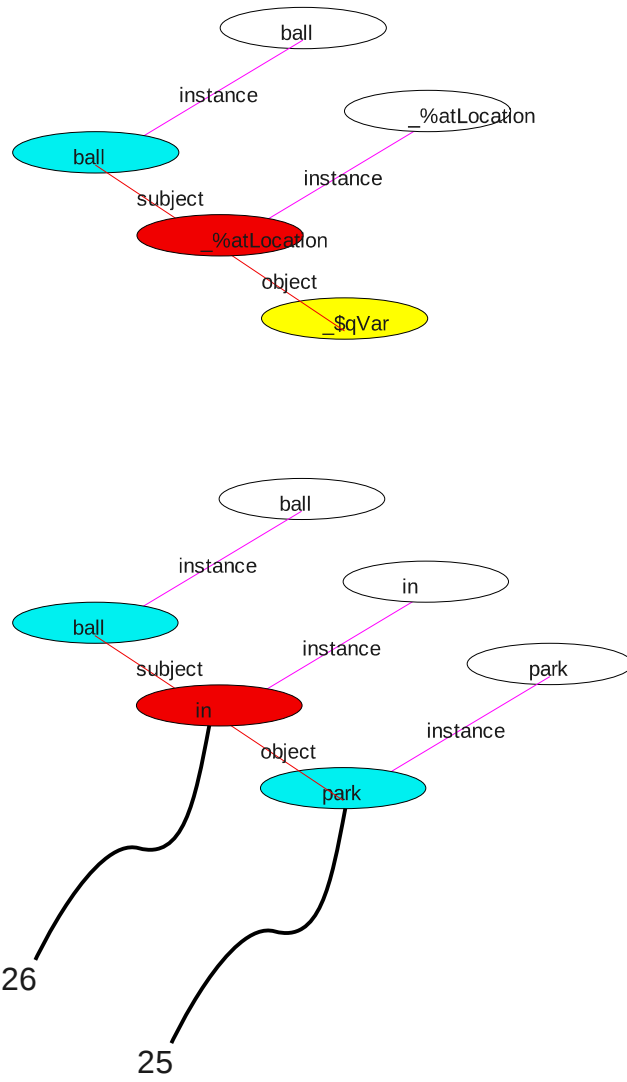


Fig. 16



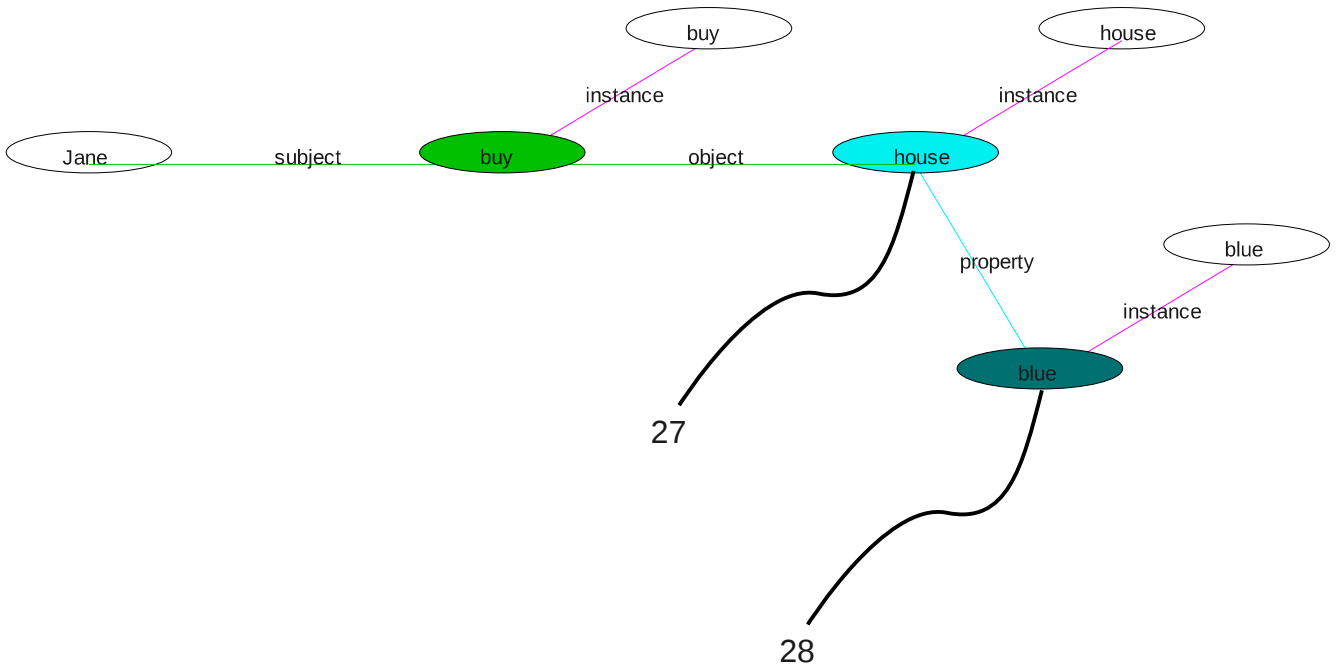
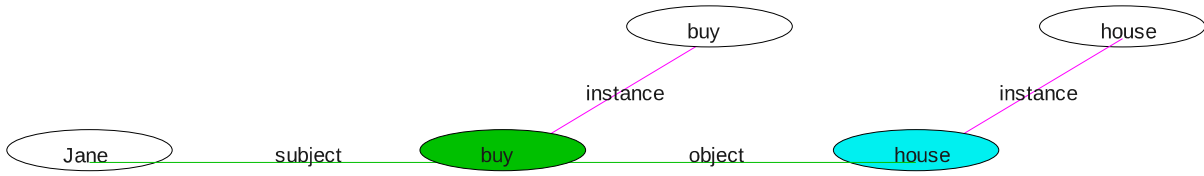


Fig. 17

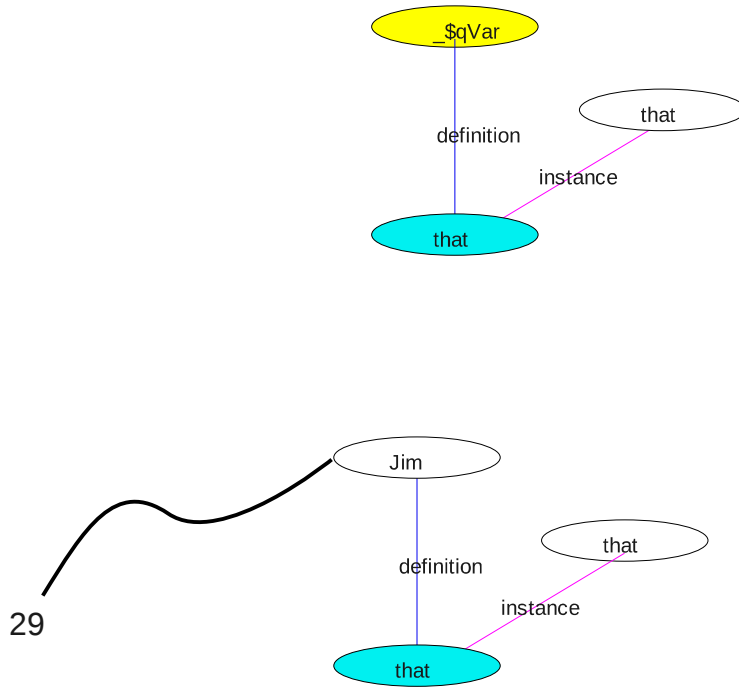


Fig. 18

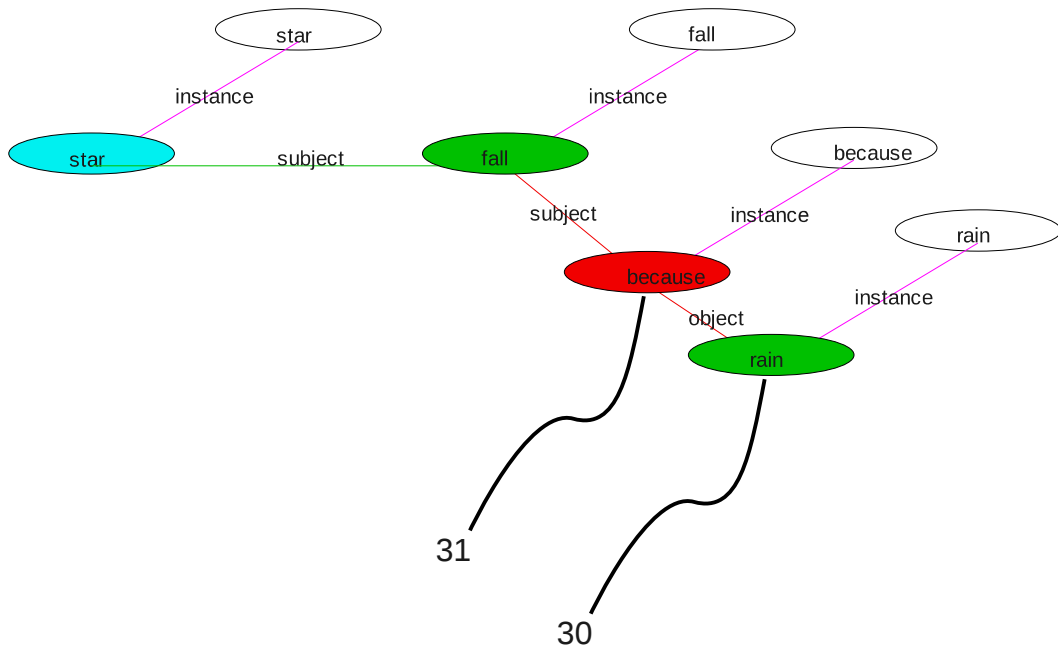
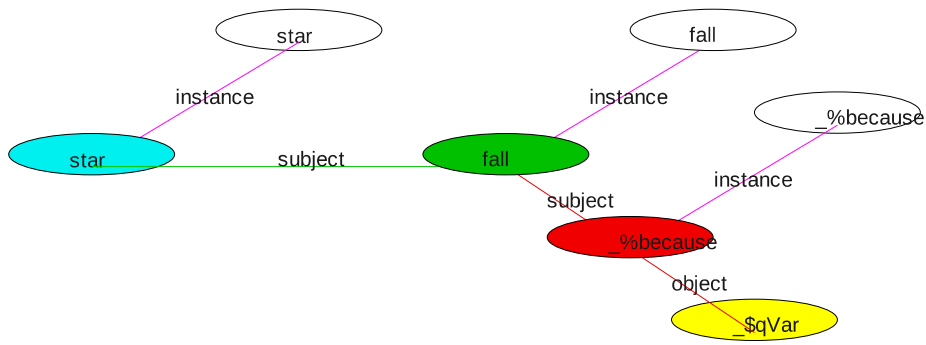


Fig. 19

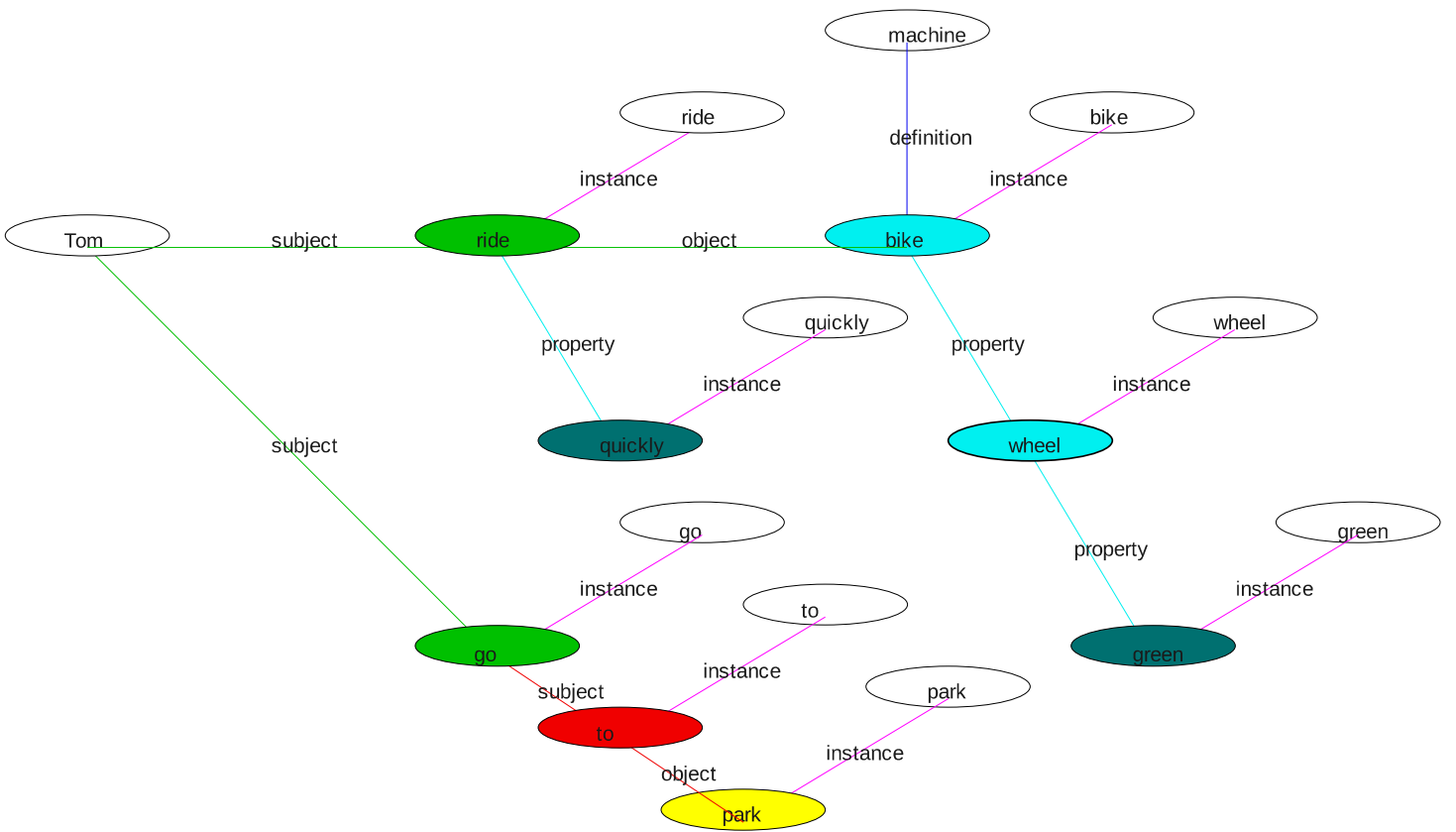
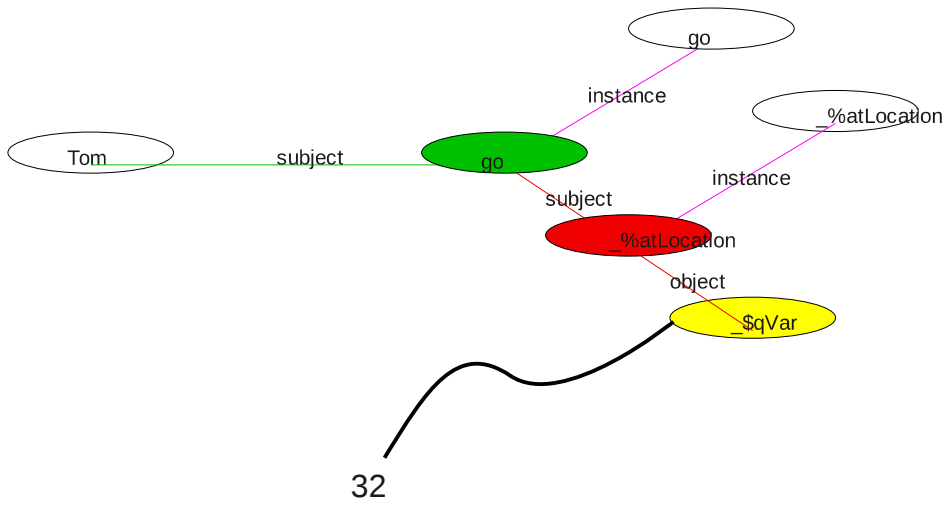


Fig. 20

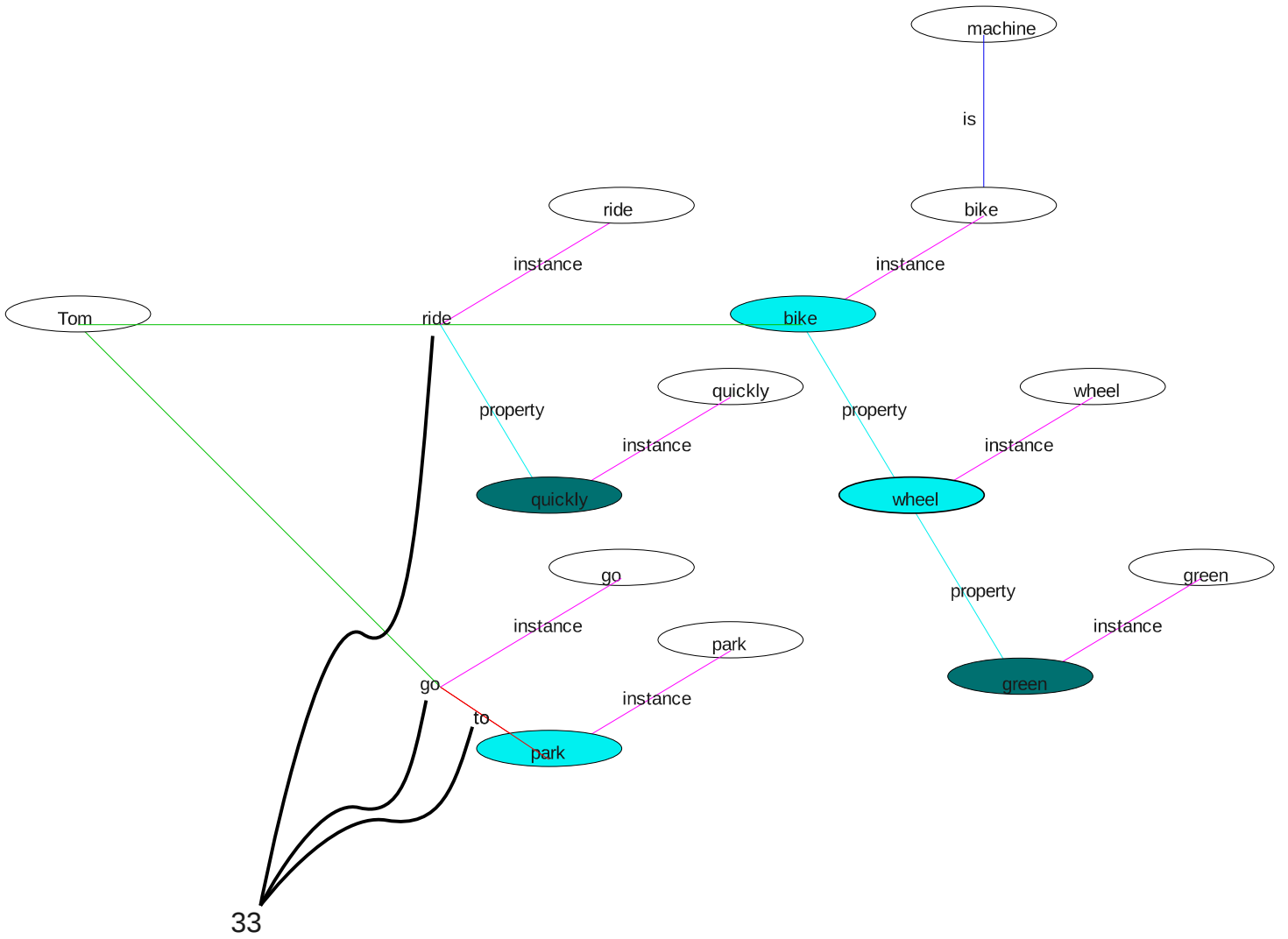


Fig. 21