Homework 8

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| Senses for Sing | Selectional Restrictions |
| [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=sing&i=0&h=00000#c) (v) **sing** (deliver by singing) *"Sing Christmas carols"* | [+SONG] |
| [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=sing&i=1&h=00000#c) (v) **sing** (produce tones with the voice) *"She was singing while she was cooking"; "My brother sings very well"* | [+HUMAN] |
| [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=sing&i=2&h=00000#c) (v) **sing** (to make melodious sounds) *"The nightingale was singing"* | [+ANIMAL] |
| [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=sing&i=3&h=00000#c) (v) [whistle](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=whistle), **sing** (make a whining, ringing, or whistling sound) *"the kettle was singing"; "the bullet sang past his ear"* | [+OBJECT] |
| [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=sing&i=4&h=00000#c) (v) [spill the beans](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=spill+the+beans), [let the cat out of the bag](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=let+the+cat+out+of+the+bag), [talk](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=talk), [tattle](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=tattle), [blab](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=blab), [peach](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=peach), [babble](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=babble), **sing**, [babble out](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=babble+out), [blab out](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=blab+out) (divulge confidential information or secrets) *"Be careful--his secretary talks"* | [+INFORMATION] |

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| Senses for Search | Selectional Restrictions |
|  [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=search&i=5&h=000000000#c) (v) **search**, [seek](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=seek), [look for](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=look+for) (try to locate or discover, or try to establish the existence of) *"The police are searching for clues"; "They are searching for the missing man in the entire county"* | [+DISCOVERABLE] |
|  [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=search&i=6&h=000000000#c) (v) **search**, [look](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=look) (search or seek) *"We looked all day and finally found the child in the forest"; "Look elsewhere for the perfect gift!"* | [+FINDABLE] |
|  [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=search&i=7&h=000000000#c) (v) [research](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=research), **search**, [explore](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=explore) (inquire into) *"the students had to research the history of the Second World War for their history project"; "He searched for information on his relatives on the web"; "Scientists are exploring the nature of consciousness"* | [+INQUIRABLE] |
|  [S:](http://wordnetweb.princeton.edu/perl/webwn?o2=&o0=1&o8=1&o1=1&o7=&o5=&o9=&o6=&o3=&o4=&s=search&i=8&h=000000000#c) (v) **search** (subject to a search) *"The police searched the suspect"; "We searched the whole house for the missing keys"* | [+SUBJECT] |

2.1 I failed to fly on the plane today due to my fear of flying.

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| Main Verb: Fly | | |
| Main Arguments | | |
| ARG0: I (Subject) | ARG2: Fear (Instrument) | ARG4: N/A |
| ARG1: The plane (Object) | ARG3: N/A | ARG5: N/A |
| Modifying Arguments: TMP: Today, CAU: Due to my fear | | |

2.2 Fred’s mentor taught him how to paint.

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| Main Verb: Taught | | |
| Main Arguments | | |
| ARG0: Fred’s mentor (Subject) | ARG2: N/A | ARG4: N/A |
| ARG1: Him (Patient) | ARG3: N/A | ARG5: N/A |
| Modifying Arguments: N/A | | |

2.3 She always arrived to school early, for fear of being late.

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| Main Verb: Arrived | | |
| Main Arguments | | |
| ARG0: She (Subject) | ARG2: Fear (Instrument) | ARG4: To school (End Point) |
| ARG1: School (Object) | ARG3: N/A | ARG5: N/A |
| Modifying Arguments: DIR: To School, MNR: Early, CAU: Fear of being late. | | |

2.4 The pilot decided it was time for a career change.

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| Main Verb: Decided | | |
| Main Arguments | | |
| ARG0: The pilot (Subject) | ARG2: N/A | ARG4: N/A |
| ARG1: Career change (Object) | ARG3: N/A | ARG5: N/A |
| Modifying Arguments: N/A | | |

2.5 I did not drive to school on Monday because of rain.

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| Main Verb: Drive | | |
| Main Arguments | | |
| ARG0: I (Subject) | ARG2: Rain (Instrument) | ARG4: To school (End Point) |
| ARG1: School (Object) | ARG3: N/A | ARG5: N/A |
| Modifying Arguments: DIR: To school, TMP: Monday, CAU: because of rain, NEG: Did not | | |

3. Thematic roles are natural extensions to the first-order logic representation of arguments because they attempt to capture the semantic commonality between the arguments.