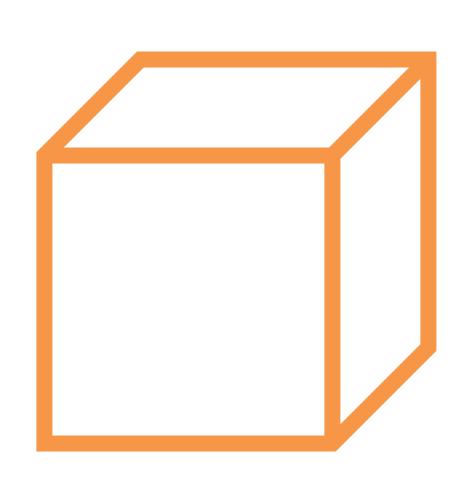


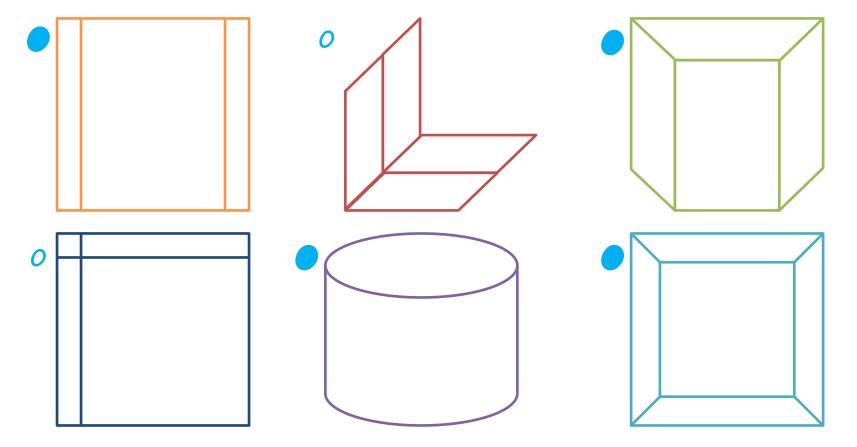
Lesson Preview

- Definition
- Image processing
- Natural language understanding

- Advanced problems



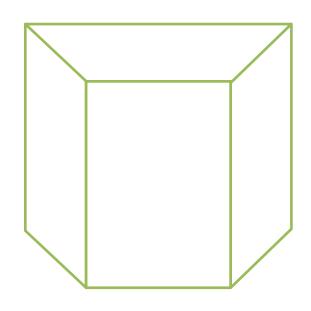
Which of these wireframes depicts a 3D figure that could exist in the real world?



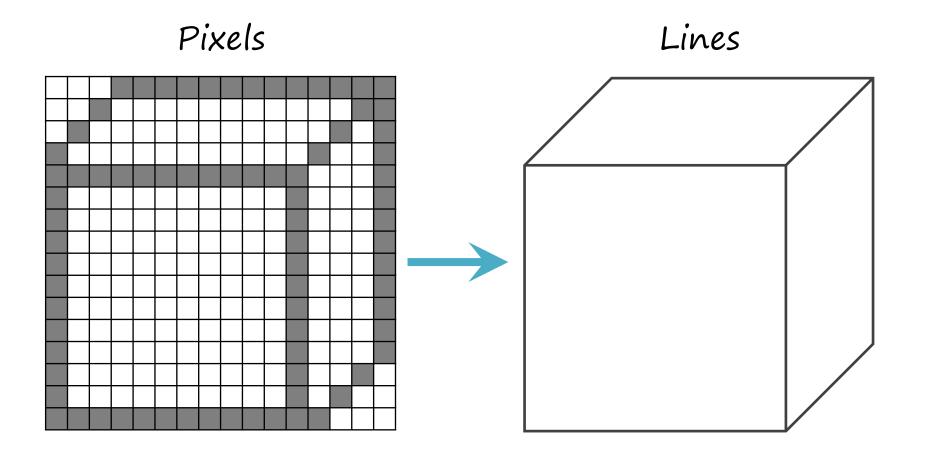
Which of these sentences are grammatically correct?

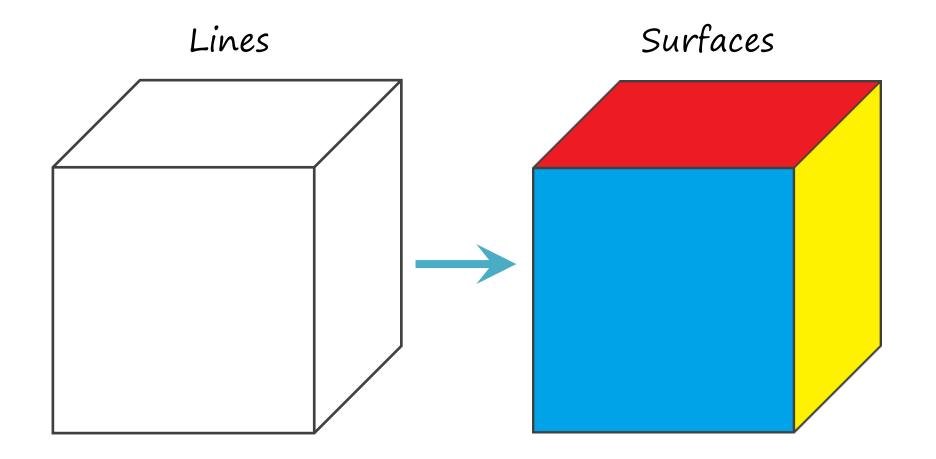
- Ocolorless green ideas sleep furiously.
- o Soft drinks due from thank bills insurance.
- o The treating physician persons the following excluded tasty.
 - Wall decor notifies business cards of nonsensical whims.
 - Tuesday brought a sharp-edged suite of pumpernickel.
 - o Go search or revoke to writing this present understand.

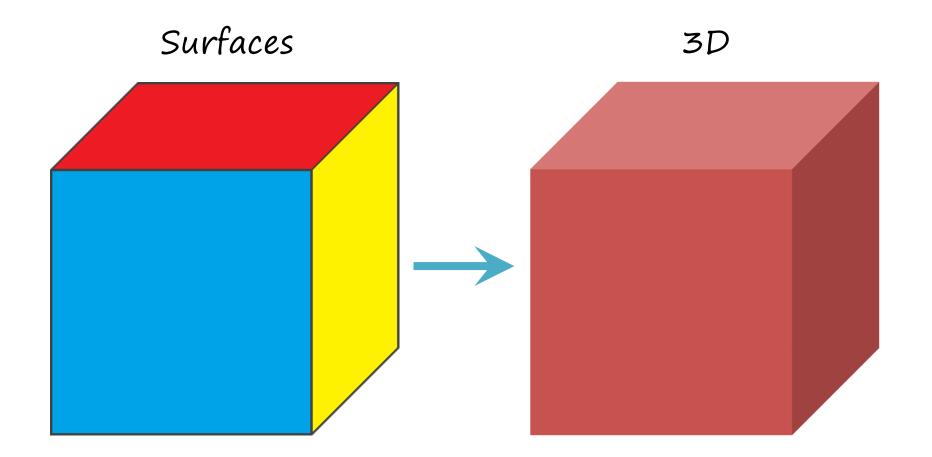
Constraint propagation: a method of inference that assigns values to variables characterizing a problem in such a way that some conditions (called constraints) are satisfied.

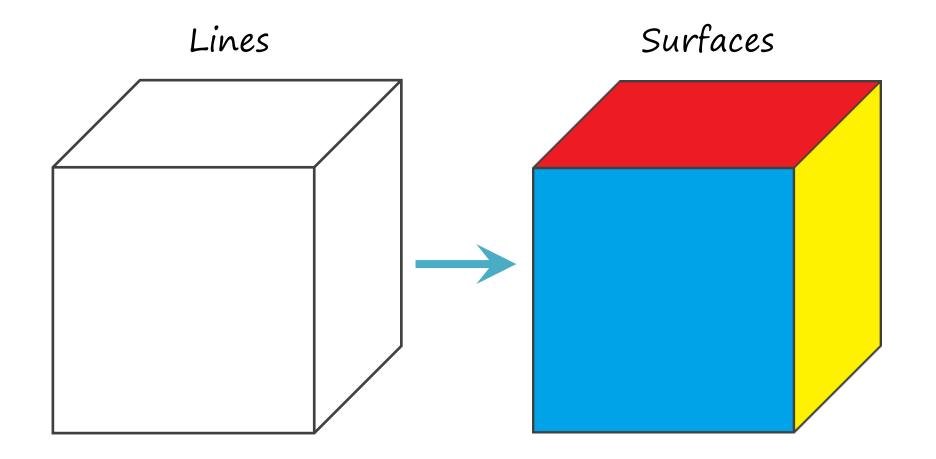


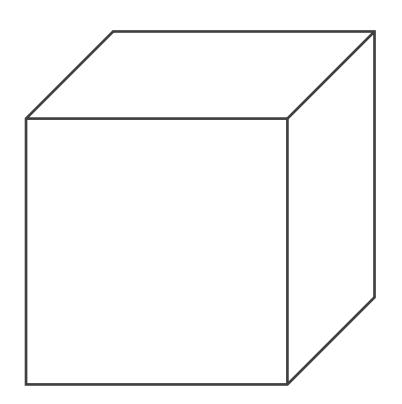
Colorless green ideas sleep furiously.











Constraints

Y-Constraint W-Constraint L-Constraint T-Constraint

Constraints

Y-Constraint

fold fold

L-Constraint

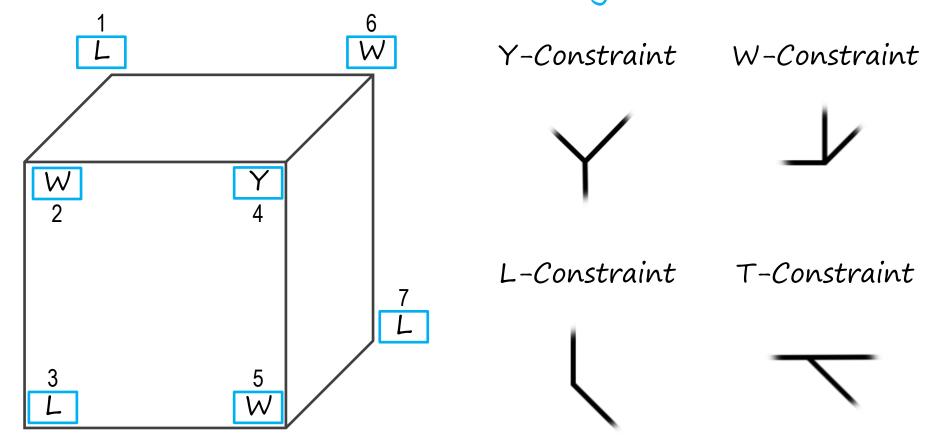
blade blade W-Constraint

fold blade blade

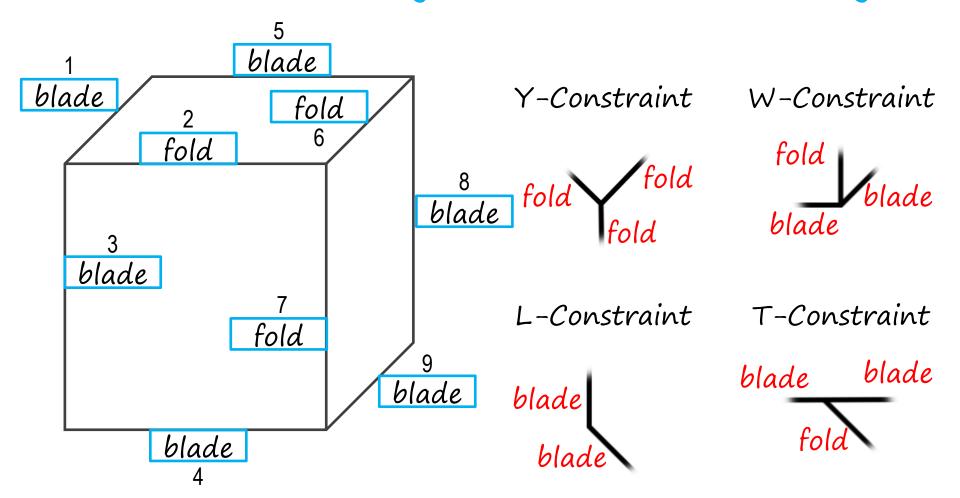
T-Constraint

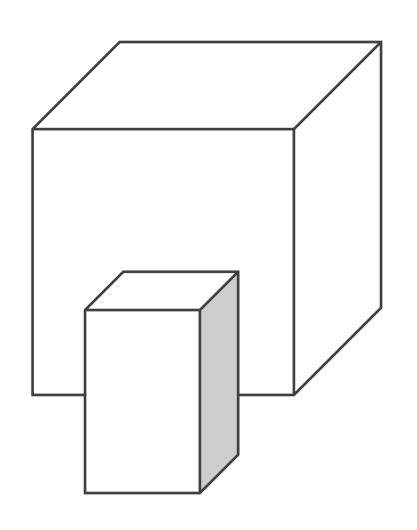
blade blade fold

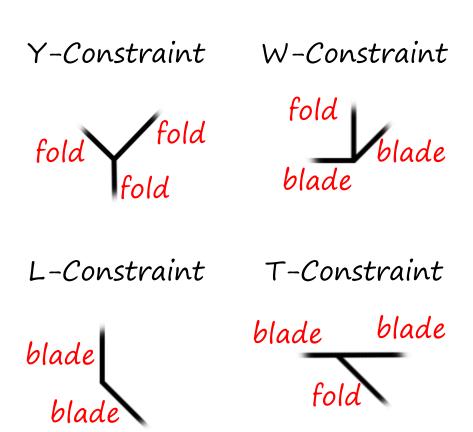
Label each intersection according to the applicable constraint on the right.

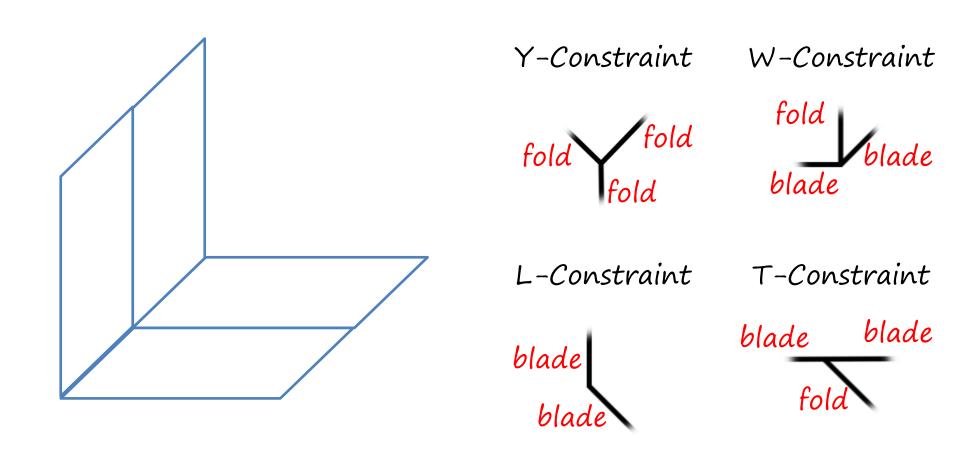


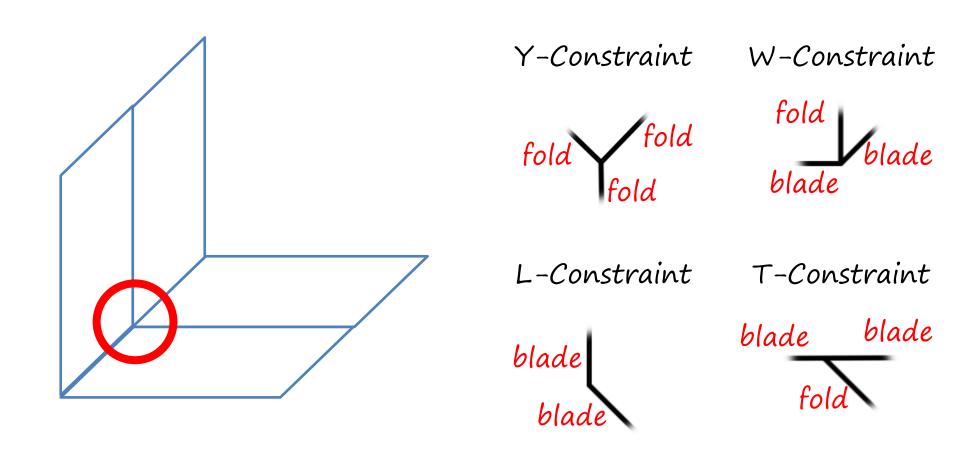
Label each line according to the constraint on the right.

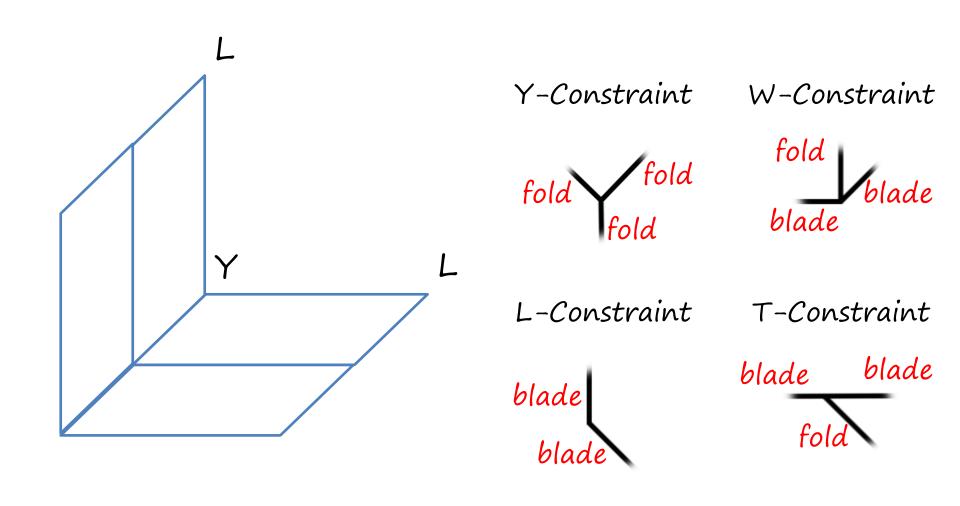


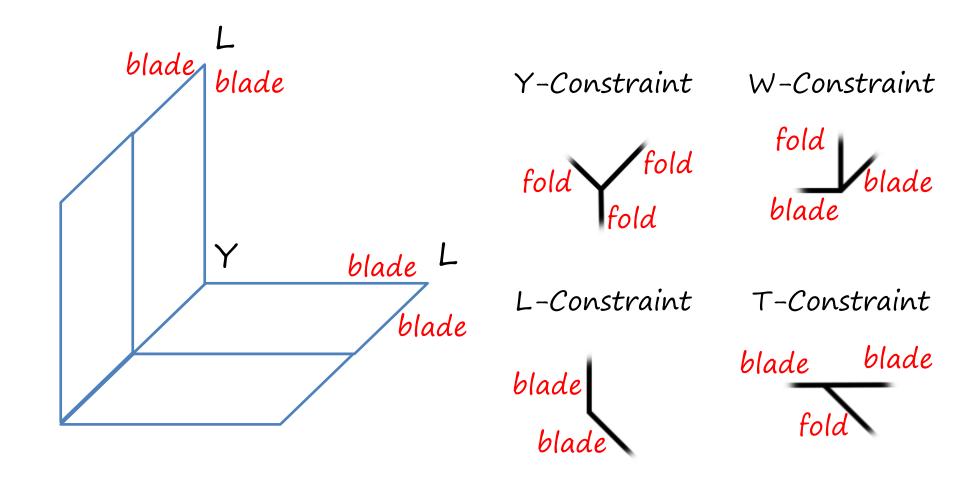


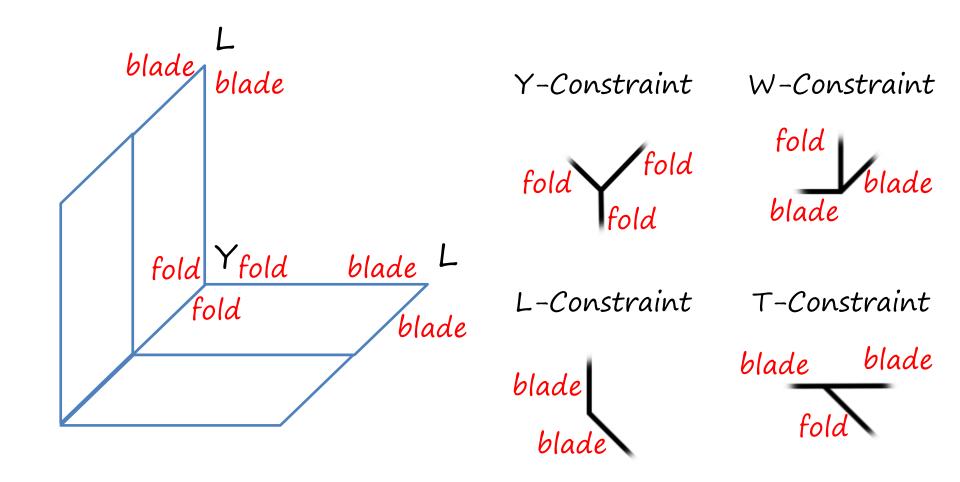


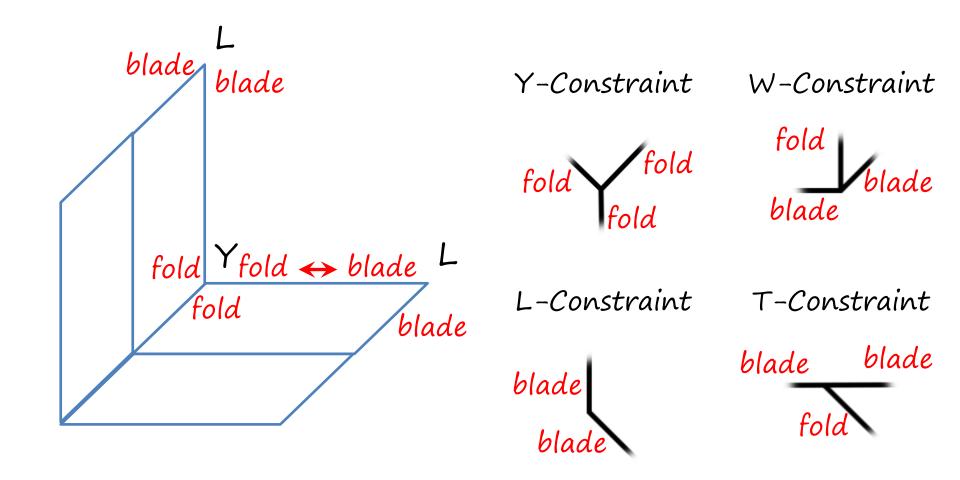


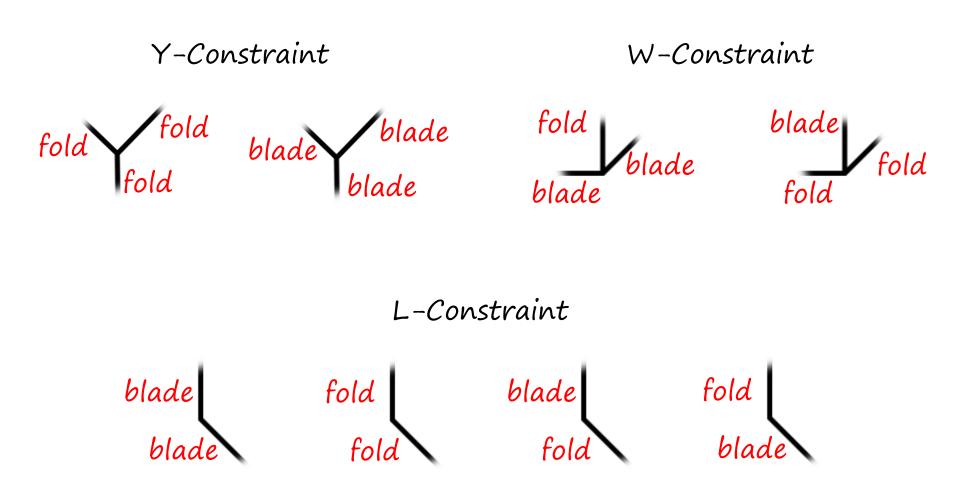












Colorless green ideas sleep furiously. Noun Phrase Verb Phrase Colorless green ideas Sleep furiously. Adjectives Noun Verb Adverb Colorless green ideas Sleep furiously.

Constraints:

Sentence = Noun Phrase + Verb Phrase
Noun Phrase = [Adjectives] + (Noun or Pronoun)
Verb Phrase = Verb + [Adverb]

Soft drinks due from thank bills insurance.

Constraints:

Sentence = Noun Phrase + Verb Phrase
Noun Phrase = [Adjectives] + (Noun or Pronoun)
Verb Phrase = Verb + [Adverb]

Assignment

agent that could answer Raven's progressive matrices?

How would you use constraint propagation to design an

To recap...

Definition

- Image processing
- Natural language understanding
- Advanced problems