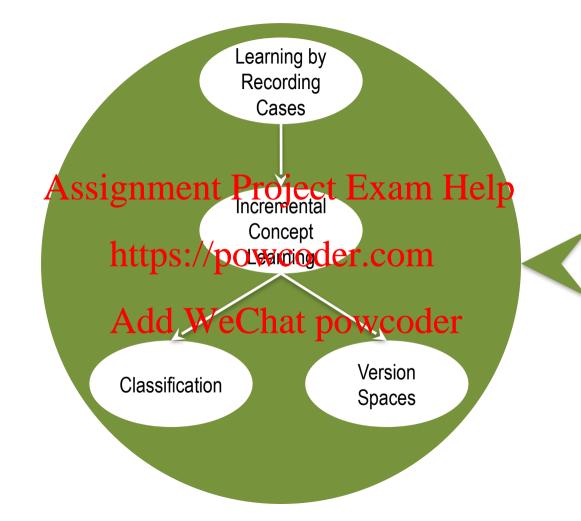
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Learning



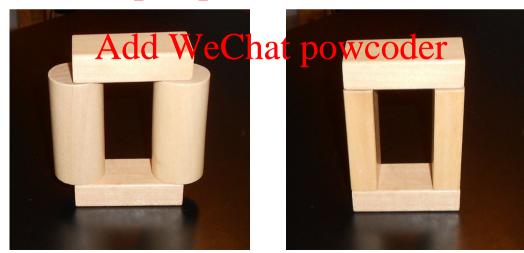
Lesson Preview

- Learning concepts
- Equivalence classes Assignment Project Exam Help
- Concept hierarchies

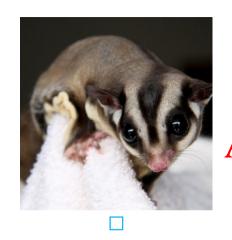
https://powcoder.com

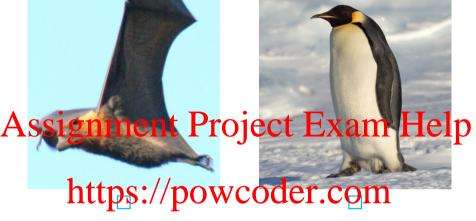
- Types of concepts
- Bottom-up search Add WeChat powcoder





Which of these are birds?

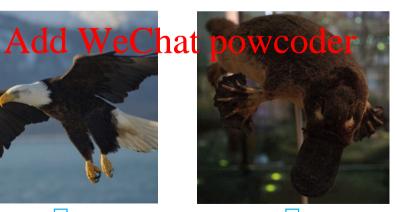


















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Add WeChat powcoder an?

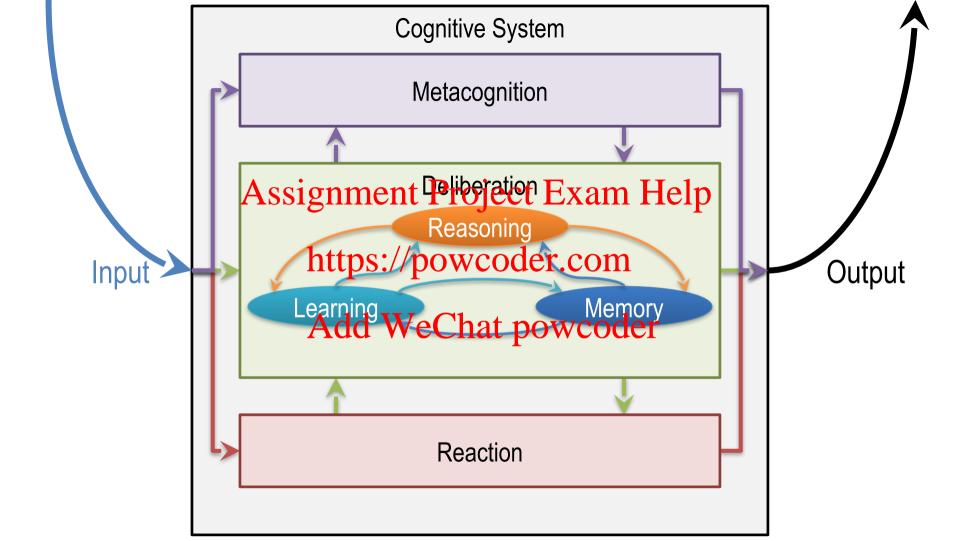
Blue?

Red?

Swims?

Builds nests?

. . .



```
Has wings?
Has feathers?
Has talons?
Has a beak?
Flies? Assignment Project Exam Helptions
Lays eggs? https://powcoder.com
          Add WeChat powcoder
               Cognitive System
                                   Output
```



Add WeChat powcoder

Input

Cognitive System

```
10 \text{ percepts} = 1024 \text{ combinations}
100 percepts = 1.2 \times 10^{30} combinations
               = 1.2 nonillion combinations
    percepts = 2.0 \times 10^{90} combinations
               = more combinations than
          at Assignment Project Exam Help
                 https://powcoder.com
                 Add WeChat powcoder
                      Cognitive System
                                             Output
```



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Input

Cognitive System



Add WeChat powcoder

Input

Cognitive System

2" per Assignment Project Exam Helpons

htequivalence dela sees"

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Input

Cognitive System

For each of these three animals, choose the value for each percept that applies to that animal.

Eagle	Bluebird	Penguin
Lays eggs?	Lays eggs?	Lays eggs?
o Yes o No o Maxbesig	nment Project Maxtem	Helmes o No o Maybe
Has wings?	Has wings?	Has wings?
o Yes o No o Maybe 🏌	ttps://powloodMaytem Has talons?	o Yes o No o Maybe
Has talons?	Has talons?	Has talons?
o Yes o No o Maybe	Add WeeChat pwwoede	r o Yes o No o Maybe
Flies?	Flies?	Flies?

o Yes o No o Maybe o Yes o No o Maybe O Yes O No O Maybe

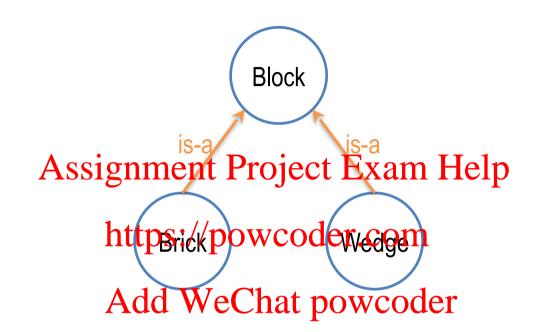
Has fur? Has fur? Has fur? o Yes o No o Maybe o Yes o No o Maybe

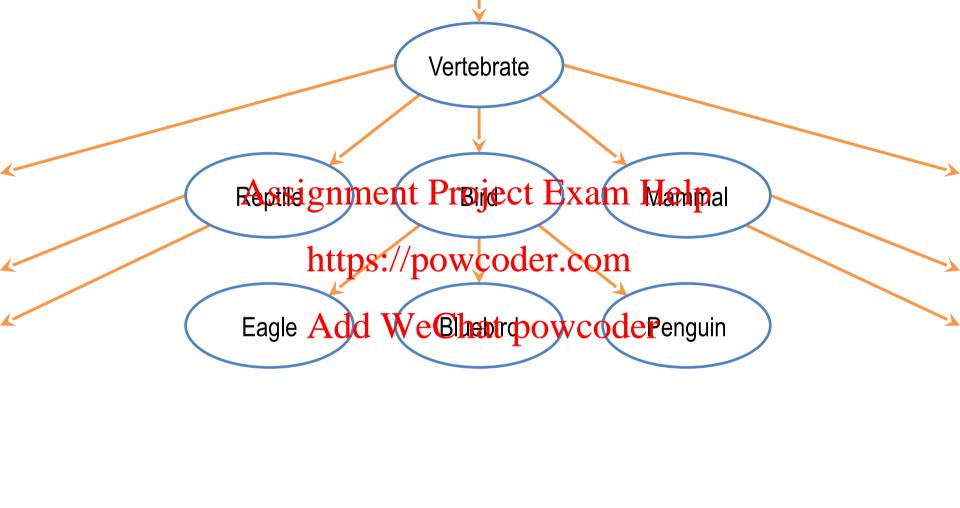
o Yes o No o Maybe Large? Large? Large?

o Yes o No o Maybe

o Yes o No o Maybe

o Yes o No o Maybe





How would you characterize the class 'bird' given the characterization of its subclasses below?

Bird

o Yes o No o Maxbeignment Project Maxbem Helyes o No o Maybe Has wings?

Has talons?

Has fur?

Has fur?

Large?

o Yes o No o Maybe

Yes

Large?

o Yes o No o Maybe https://powcoder.com

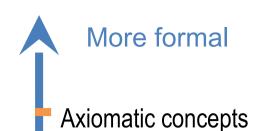
Yes

Large?

Eagle Penguin Add WeChat bowcoder Lays eggs? Lays eggs? Yes Yes Lays eggs? Yes Has wings? Has wings? Has wings? Yes Yes Yes Has talons? Has talons? Has talons? Yes No Yes Flies? Flies? Yes Flies? Yes No Has fur? No Has fur? No Has fur? No

Large?

No



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Prototype concepts
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Add WeChatepolev conclusts



Axiomatic concepts:

Concepts defined by a formal set of necessary and sufficient conditions.

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Axiomatic concepts:

Concepts defined by a formal set of necessary and sufficient conditions.

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Circle: all points in a plane that are equidistant from a single point.

Prototype concepts:

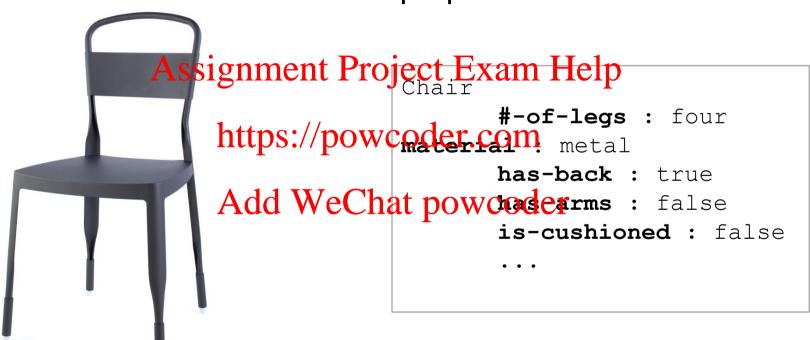
Base concepts defined by a typical example with overridable properties.

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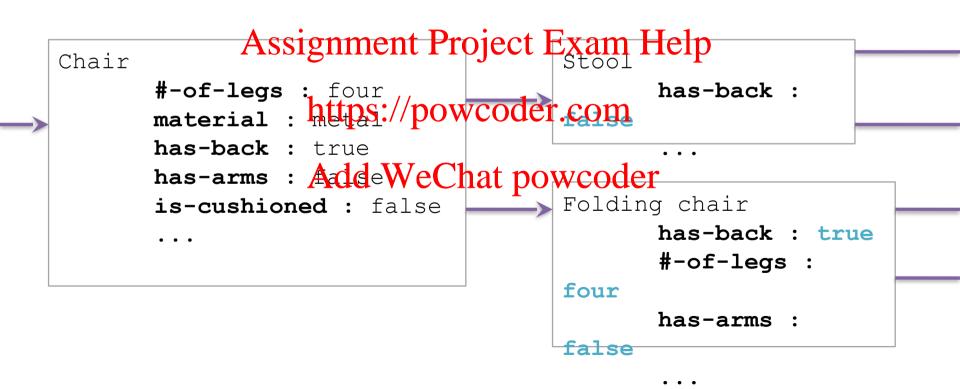
Prototype concepts:

Base concepts defined by a typical example with overridable properties.



Prototype concepts:

Base concepts defined by a typical example with overridable properties.



Exemplar concepts:

Concepts defined by implicit abstractions of instances, or exemplars, of the concept.

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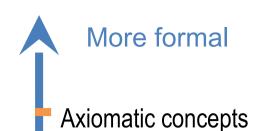
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Prototype concepts
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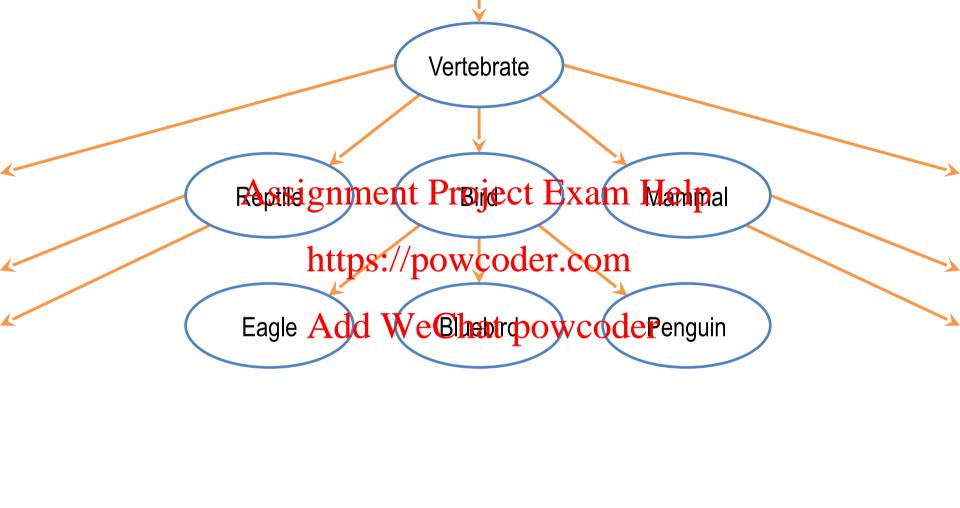


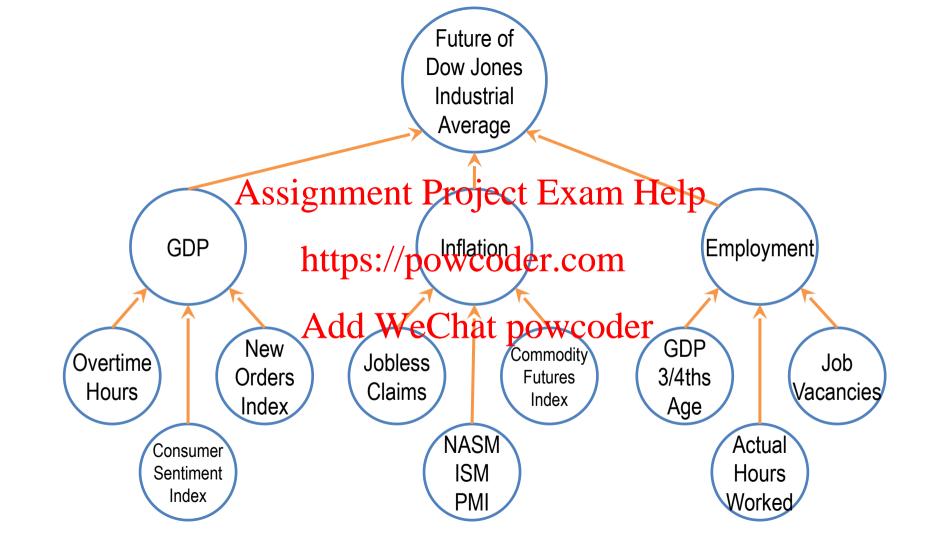
More formal

- 4. Right Triangle
- 2. Reptile .
- 3. Foo
- 5. Holiday
- 1. Inspirational
- 6. Saltiness

- Rank the following concepts based on their formality:
 - 1. Inspirational
- Assignment Project Exame Help
 - 3. Foo
 - https://powcoderigomriangle
 - Add WeChat powcoder

Less formal





Assignment

How would you use classification to design an agent that could answer Raven's progressive matrices?

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To recap...

- Concept learning
- Equivalence classes Assignment Project Exam Help
- Concept hierarchies
- https://powcoder.com
 Axiomatic, prototypical, and exemplar concepts
- Add WeChat powcoder Bottom-up search