

Assignment Project Exam Help

Common

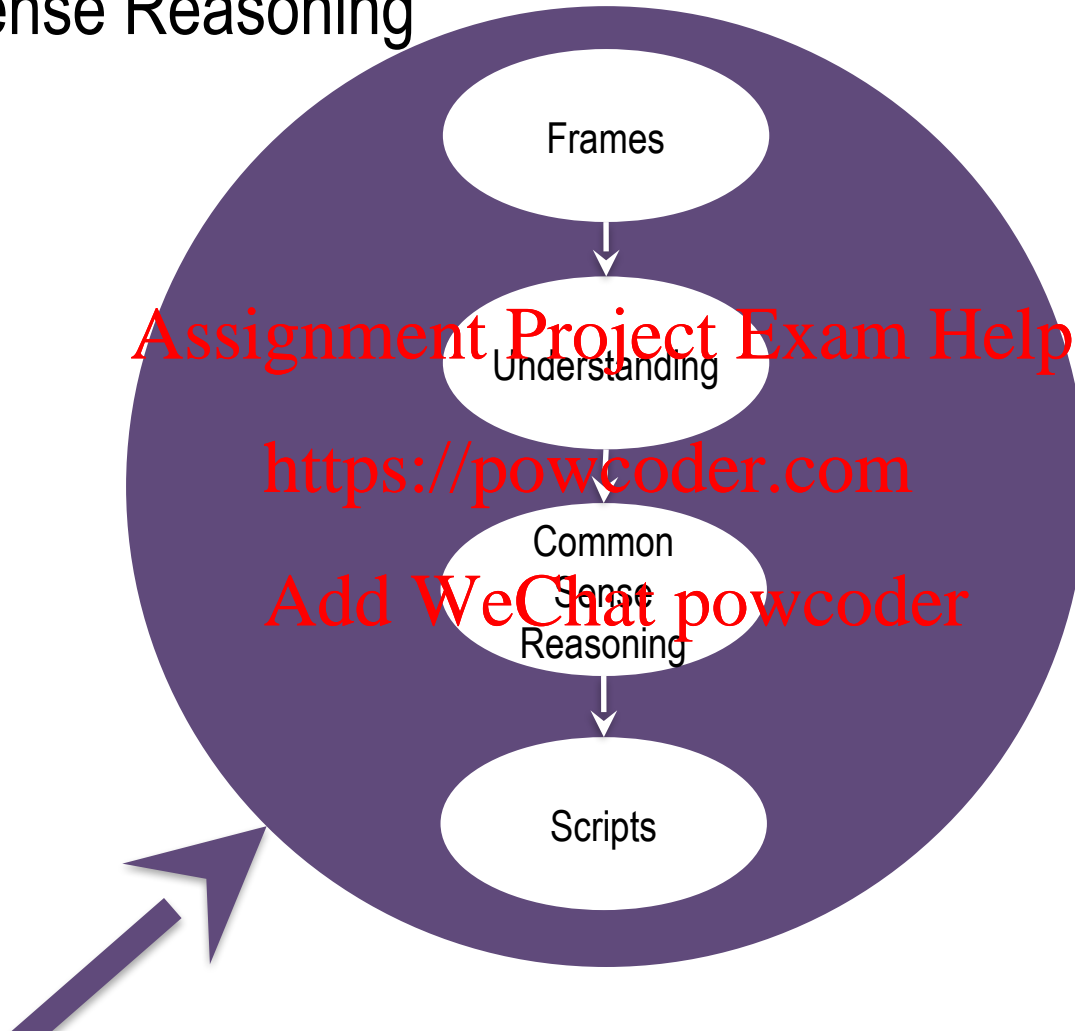
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Sense

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Reasoning

Common Sense Reasoning



Lesson Preview

- Primitive actions
- Actions and subactions
- State changes

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Ashok **ate** a frog.

Ashok **ate** out at a restaurant.

I could tell something was really **eating** him.

The manager would rather **eat** the losses
than devote more resources to the project.

The river gradually **ate** away at the
riverbank.

The drip **ate** a hole through the wallpaper.

The forest was completely **eaten** by the fire.

He **ate** crow when his prediction was false.

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Ashok **ate** a frog.

Ashok **ate** a frog.

Ashok **ate** out at a restaurant.

Ashok **devoured** a frog.

I could tell something was really **eating** him.

Ashok **consumed** a frog.

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The manager would rather **eat** the losses
than devote more resources to the project.

Ashok **ingested** a frog.

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The river gradually **ate** away at the
riverbank.

Ashok **partook** of a frog.

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The drip **ate** a hole through the wallpaper.

Ashok **swallowed** a frog.

The forest was completely **eaten** by the fire.

Ashok **dined** on a frog.

He **ate** crow when his prediction was false.

Ashok **inhaled** a frog.

Primitive Actions

Move-body-part

Move-object

Expel

Ingest

Propel

Speak

See

Heart

Smell

Feel

Move-possession

Move-concept

Think-about

Conclude

Ashok ~~ate~~ **ingested** a frog.

Ashok ~~devoured~~ **ingested** a frog.

Ashok ~~consumed~~ **ingested** a frog.

Ashok **ingested** a frog.

Ashok ~~partook~~ **ingested** a frog.

Ashok ~~swallowed~~ **ingested** a frog.

Ashok ~~dined~~ **ingested** a frog.

Ashok ~~inhaled~~ **ingested** a frog.

Primitive Actions

Move-body-part

Expel

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Move-object

Ingest

Speak

Heart

Feel

Move-concept

Conclude

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Write the primitive action that
subsumes the verbs in the
following sentences.

Primitive Actions

Move-body-part

Expel

Propel

See

Smell

Move-possession

Think-about

Move-object

Ingest

Speak

Hear

Feel

Move-concept

Conclude

John ran .

John pushed the cart.

John took the book from Mary.

John ate ice cream with a spoon.

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John pushed the cart.

Action Frame

primitive :

propel

agent : John

object : cart

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John took the book from Mary.

Action Frame

primitive : move-

possession

agent : John

coagent : cart

object : book

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Write the action frame corresponding to the above sentence, using a primitive action.

Primitive Actions

Move-body-part
Expel
Propel

Move-object
Ingest
Speak
Conclude

See
Smell
Move-possession
Think-about

Heart
Feel
Move-concept

John fertilized the field.

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~~John fertilized the field.~~

John put fertilizer on the field.

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~~John fertilized the field.~~

John put fertilizer on the field.

Action Frame

primitive : move-
possession

agent : John

object : fertilizer

destination : field

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Bill shot Bob.

Bill propelled a bullet into Bob.

Action Frame

primitive : propel
agent : Bill
object : bullet
destination : Bob

Rewrite the sentence
in the form of a
primitive action, then
construct an action
frame for the
sentence.

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Primitive Actions

Move-body-part
Expel
Propel

Move-object
Ingest
Speak
Conclude

See
Smell
Move-possession
Think-about

Heart
Feel
Move-concept

Ashok put the wedge on the block.

Action Frame

primitive : move-

object :

agent : Ashok

object : wedge

destination : block

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Ashok put the wedge on the block.

Action Frame	
	primitive : move-
object	
	agent : Ashok
	object : wedge
	destination :
block	
	sub-action :
	sub-action :
	sub-action :

Action Frame	
	primitive : move-body-
part	
	object : fingers
	destination : open
Action Frame	
	primitive : move-body-
part	
	object : hand
Action Frame	
	primitive : move-body-
part	
	object : fingers
	destination : closed

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Ashok enjoyed eating the frog.

Action Frame

primitive :

ingest

agent : Ashok

object : frog

result :

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Ashok enjoyed eating the frog.

Action Frame

primitive :

inquest

agent : Ashok

object : frog

result :

State-Change Frame

object : Ashok's

mood

destination :

Happy

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Susan comforted Jing.

Action Frame

primitive : do

agent : Susan

result :

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State-Change Frame

object : Jing's

mood

destination :

Happy

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Maria told Ben to throw the ball.

Action Frame

primitive :

propel

agent : Maria

result :

Action Frame

primitive :

propel

agent : Ben

object : ball

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Complete the frame representations for these sentences.

Anika decided to have a glass of water.

Marc loved watching TED talks.

<input type="radio"/> Action	<input type="radio"/> State Change
primitive :	
conclude	
agent : Anika	
result :	
<input type="radio"/> Action	<input type="radio"/> State Change
primitive : ingest	
agent : Anika	
object : glass of water	

<input type="radio"/> Action	<input type="radio"/> State Change
primitive : see	
agent : Marc	
object : TED talks	
result :	
<input type="radio"/> Action	<input type="radio"/> State Change
object : Mark's	
destination :	

Primitive Actions

Move-body-part
Expel
Propel

Move-object
Ingest
Speak
Conclude

See
Smell
Move-possession
Think-about

Heart
Feel
Move-concept

Assignment

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

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To recap...

- Primitive actions
- Actions and sub-actions
- State changes

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