

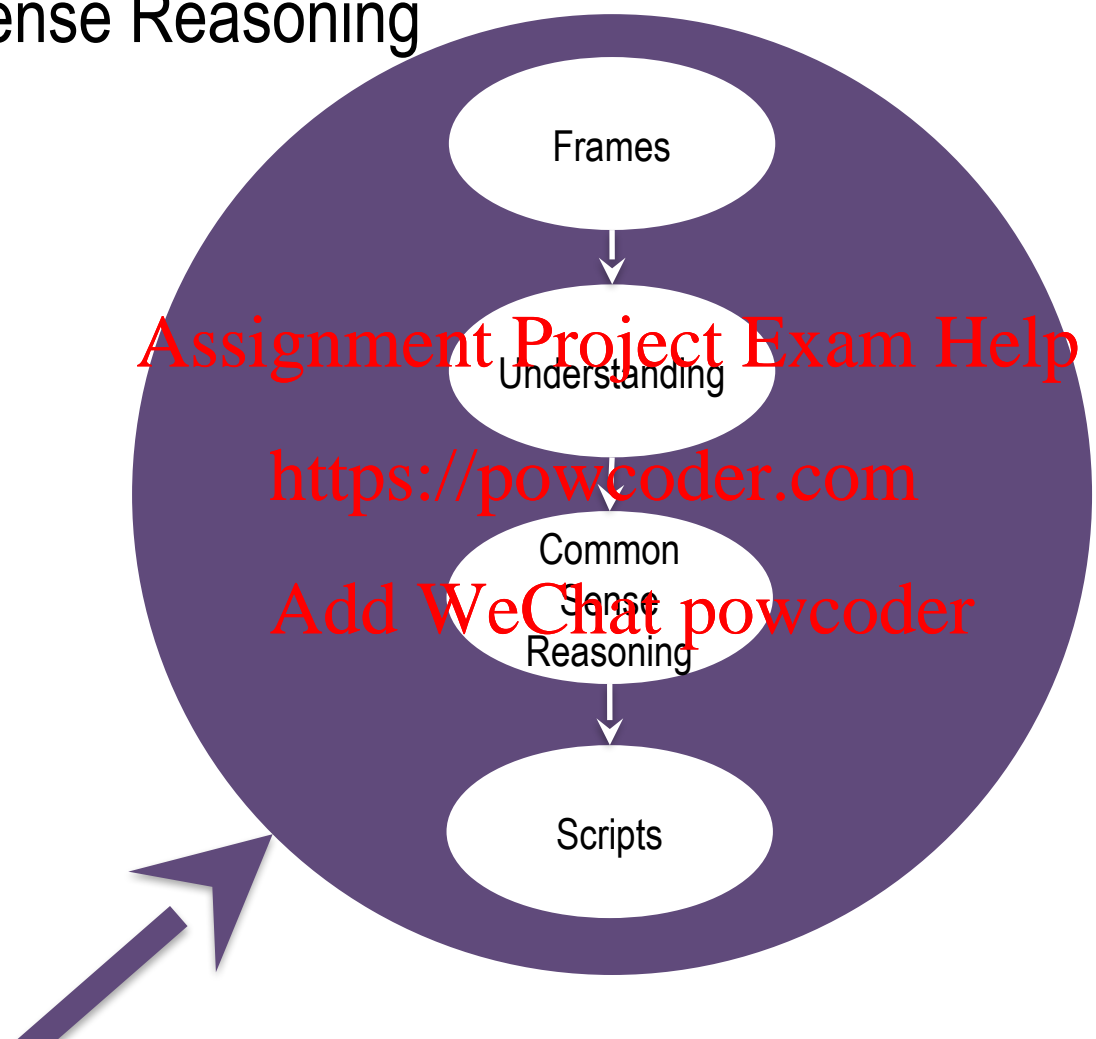
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Scripts

Common Sense Reasoning



Lesson Preview

- Defining scripts

- Form vs. content

- Generating expectations

- Hierarchies of scripts

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Ali asked, "Do you think
we'll have many
customers in the next half-
hour?"

Does this story make
sense?

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☐ Yes

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Sarah replied, "Go ahead
and grab your lunch."

☐ No

Definition of Scripts

A causally¹ coherent² set of events³.

1: Each event sets off, or causes, the next event.

2: The causal connections between events make sense.

3: The parts are actions or scenes in the world.

Parts of a Script

Entry conditions:

Conditions necessary to execute the script.

Roles: Agents involved in the execution of the script.

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Result: Conditions that will be true after the script has taken place.

Track: Variations or “subclasses” of the particular script.

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Props: Objects involved in the execution of the script.

Scenes: The sequence of events that occurs during execution of the script.

Restaurant Script

Script

script : restaurant

track : formal dining

props : tables, menu, check,
money, F = food, P = place

roles : S = customer, W = waiter,
C = cook, M = cashier,
O = owner

entry : S is hungry, S has money

result : S has less money,
O has more money,
S is not hungry,
S is pleased

scenes :



Scene 1: Entering

Action Frame

prim. : move-object
agent : S
object : S
destination : P

Action Frame

prim. : conclude
agent : S
result :

Action Frame

prim. : see
agent : S
object : table

Action Frame

prim. : move-object
agent : S
object : S
destination : table

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Action Frame

prim. : move-body-part

agent : S

part : body

destination : sitting

Action Frame

prim. : see

agent : W

object : S

Action Frame

prim. : move-object

agent : W

object : W

destination : S

Action Frame

prim. : move-object

agent : W

object : menu

destination : S

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S = Salwa; P = Applebee's; W = Lucas

Action Frame

prim. : move-body-part
agent : S
part : body
destination : sitting

Action Frame

prim. : move-object
agent : W
object : W
destination : S

Action Frame

prim. : see
agent : W
object : S

Action Frame

prim. : move-object
agent : W
object : menu
destination : S

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S = Salwa; P = Applebee's; W = Lucas

Action Frame

prim. : move-body-part
agent : Salwa
part : body
destination : sitting

Action Frame

prim. : move-object
agent : Lucas
object : Lucas
destination : Salwa

Action Frame

prim. : see
agent : Lucas
object : Salwa

Action Frame

prim. : move-object
agent : Lucas
object : menu
destination : Salwa

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S = Ashok; P = Olive Garden; W = Andrew

Action Frame
prim. : move-body-part
agent : Ashok
part : body
destination : sitting

Action Frame
prim. : see
agent : Andrew
object : Ashok

Action Frame
prim. : move-object
agent : Andrew
object : Andrew
destination : Ashok

Action Frame
prim. : move-object
agent : Andrew
object : menu
destination : Ashok

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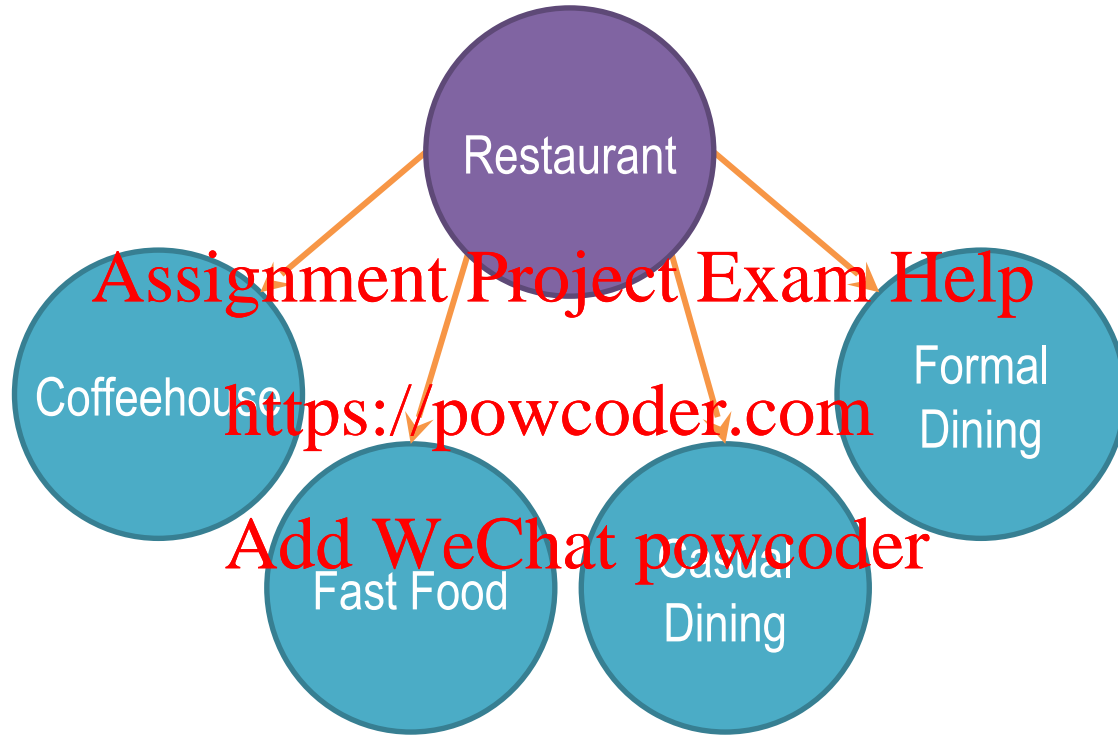


Restaurant

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Which of the following prior topics might help an agent learn a script? Check all that apply.

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- o Semantic Networks
- o Frames
- o Production Systems
- o Learning by Recording Cases
- o Incremental Concept Learning
- o Planning
- o Commonsense Reasoning

Which of the following prior topics might help an agent use a script? Check all that apply.

☐ Generate & Test

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☐ Means-Ends Analysis

☐ Problem Reduction

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☐ Case-Based Reasoning

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☐ Classification

☐ Logic

☐ Understanding

Assignment

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

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To recap...

- Defining scripts

- Form vs. content

- Generating expectations

- Tracks

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