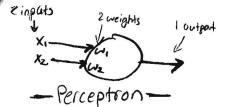
1. Briefly, and concisely, explain what a script is and describe the basic components of a script.

A script was created to act like a movie script where actions are taking place and the whole thing is diveded into scenes. You can have situational, instrumental, or personal scripts where each of the three involves sandthing and its environment that can either be expressed publicly to the world or novovely can know about it (like a Personal script). The script is built with scenes, props, players, and locations/environments/stoutions (like other a footbod restaurant, or a nice forgreshwarent etc) where they are all components of the scripts that are used to interact with each other.

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every aonlistin



2. Describe, completely, the process necessary to train/teach a single perceptron.

X, and X2

W, and W,

A single perceptron has two inputs, each with a weight, and with only I output. To train it we use a STEP function that will calculate the result of output and we compare it to our desired output. For the step function to work we set up or I value that the STEP function uses to determine the different type of outputs. With each weight we multiply it with their paired input values and gend the result to the STEP function. It its correct then we move on, else we must factor in the error rate and calculate a new weight for what went wrong Then We loop back around following this process of checking for weights to be correct and once every combination of X, and X2 sourced with the w. and we then the perception has successfully been taught how to work. (This is how we taught the perception in class to do an OR gate with inputs 60,01.10, And II and in this example on TD3; XI=1 and X2=0 we had the weights at something like w.==a and w===4 so Ir-a+0==a and STEP(-a)=0 because if our t was less than or equal to 0 then output was 0, so we had to recallulate the weight because output Should be | but STEP (-a) = 0. We change x, weight and continue until everything passes with the new weight, exc 3. Briefly, and concisely, explain what the Frame problem is in the context of planning systems.

Frome Problem/Frame Axions have a problem that can be fixed by the notion of strips with the Decision Triangle which retains all post and preconditions for an action to occur. This is where the frame problem comes into play because they cannot check the pre- and post-conditions of an action and yet alone figure out how the resolved the problem, so therefore frames connect backwards propagate to obtain its solution path. So in a planning system you must know you you can be these problems with strains of your actions and that is only there is a frame problem, and preconditions and give the results of its actions as past-conditions

4. Symbol based learning systems use generalization and specialization operations on symbolic expressions while processing training data. Explain both operations and give an example of each.

Generalization - goes from specific to general, and finds the most generalized form that will work for all positive instances.

Esmall, red, ball 3 most specific

Esmall, Y, ball 3

EX, Y, Z 3 most represented

Specialization - takes the most general and attempts to locate the most specific thing that works for

€x, y, z } most general

€x, red, z }

€small, red, ball 3 most specific

5. Indicate, in the space provided, if the following statements are true or false. If false, briefly explain why. It uses prototypes which are stored in memory like they in the 1D3 algorithm builds a decision tree from the leaft. Every living person has a complete and detailed Opera script. Rule based production systems that use data driven reasoning cannot	do
adequately respond to the why query. Inductive bias is introduced when criteria is used to constrain a concept base.	
i) A Semantic network represents knowledge as a graph. - frame - generalization - semantic network - perceptron ii) Cuth will never pass this class. - Tom - Dick - Harry - Curtis iii) Replacing constants with variables is a form of generalization - generalization - specialization - specialization - specialization	
- reinforcement iv) If concept p is more general than concept q, then p <u>Covers q</u> . - replaces - covers - entropies - biases v) <u>Reinforcement</u> uses both specific-to-general and general-to-specific approaches to learning. - Candidate elimination - Backpropagation - Reinforcement - Planning	