

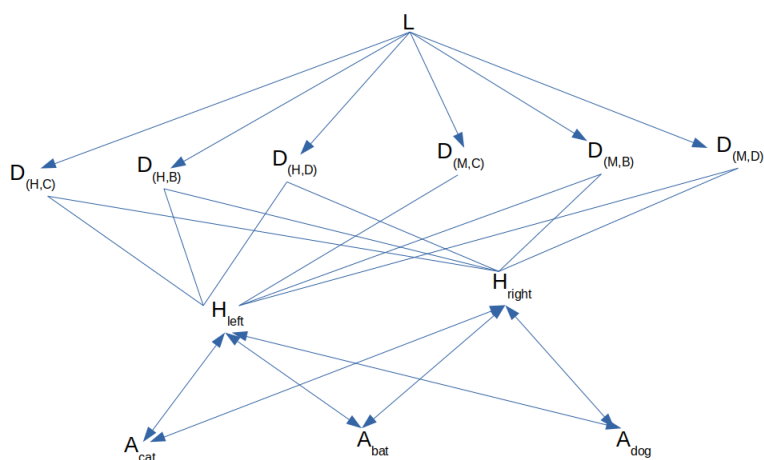
# Autonomous Intelligent Systems Lab 5

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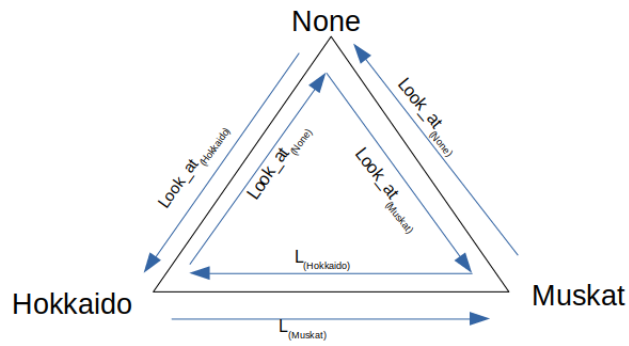
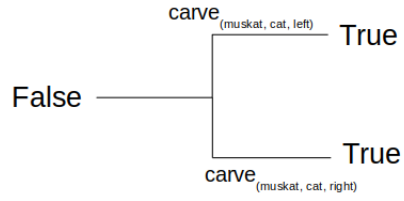
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## 1 Exercise 1

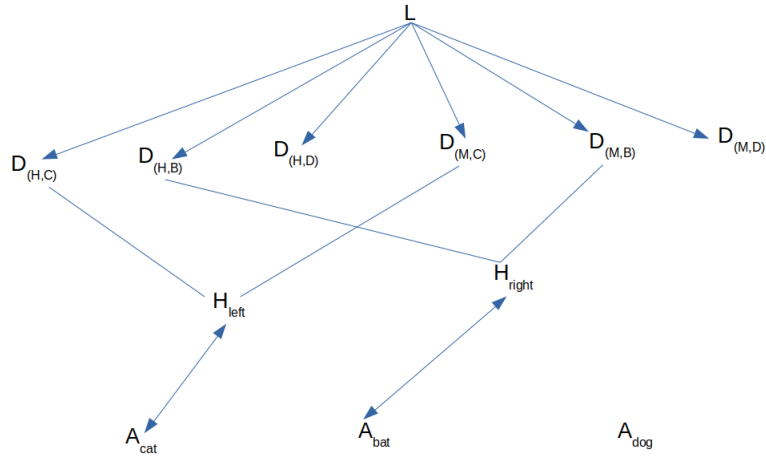
i) Causal Graph:



ii) DTG for  $L$  and  $D_{\{muskat, cat\}}$ :



iii) Causal Graph with unreachable variables,  $A_{dog}$ ,  $D_{muskat, dog}$ ,  $D_{hokkaido, dog}$ :



## 2 Exercise 2

### 2.1 Planner Output

```
step    0: PICK_UP RIGHT DOG
        1: LOOK_AT NONE MUSKAT
        2: CARVE MUSKAT DOG RIGHT
        3: PICK_UP LEFT CAT
        4: CARVE MUSKAT CAT LEFT
        5: LOOK_AT MUSKAT HOKKAIDO
        6: DROP DOG RIGHT
        7: PICK_UP RIGHT BAT
        8: CARVE HOKKAIDO BAT RIGHT
```