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Northwest University

Xi'an 710127, P.R. China

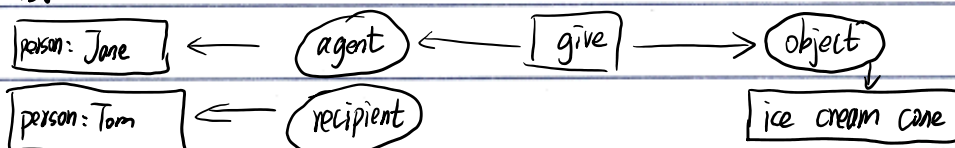
3. ① Jane gave Tom an ice cream cone.

谓词逻辑: $\exists x \exists y \exists w (agent(x) \wedge recipient(y) \wedge give(x, y, w) \wedge object(x, w))$

概念依赖: Agent(Jane) Recipient(Tom)

give(Jane, Tom, ice cream cone) object(Jane, ice cream cone)

概念图:



② Basketball players are tall

谓词逻辑: $\forall x (isBasketballplayers(x) \wedge tall(x))$

概念依赖: Concept(Basketball players)

Attribute(tall, Basketball players)



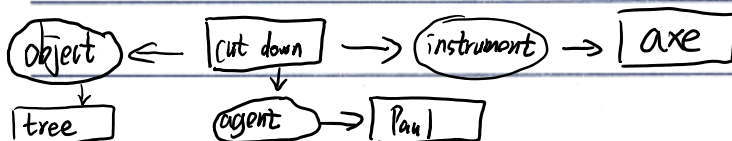
③ Paul cut down the tree with an axe.

Paul(cut down, Paul, tree, axe)

概念依赖: Agent(Paul)

Instrument(axe)

Action(cut down, Paul, tree, axe)





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④ Place all the ingredients in a bowl and mix thoroughly

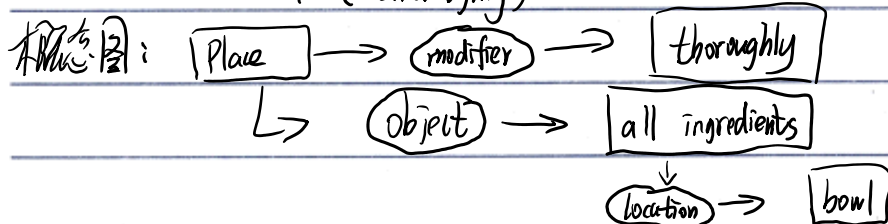
Mix (Place, all ingredients, bowl, thoroughly)

概念依赖: Action (Place)

object (all ingredients)

Location (bowl)

Modifier (thoroughly)



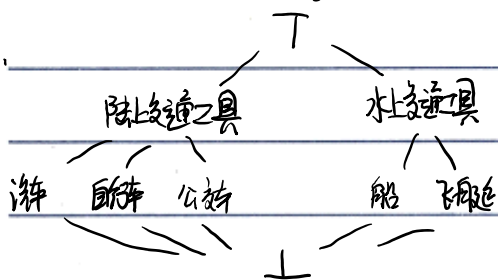
5. ① John eats soup with one hand

② Kate's belief is to negate John's view that he likes pizza

9. John (eat, John, soup, part of hands)

Belief (Kate, negate, View (John, Likes (pizza)))

13.



最好表示为树，树结构清晰地显示了超类型与子类型的层次关系



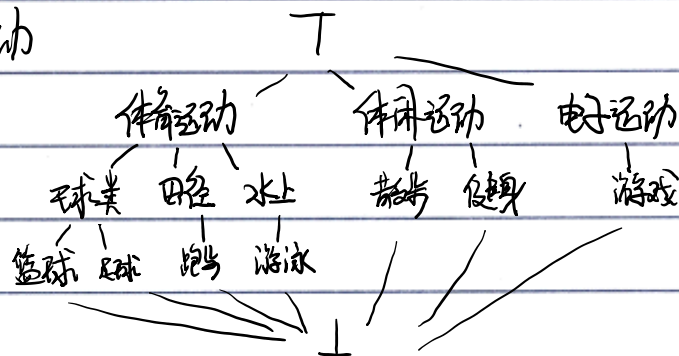
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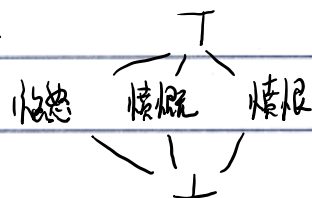
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② 运动



③ 情感



14. 不可以用树表示，树只能有一个父结点，但是没有公共的超类型会导致
 有多个父结点，因此不能用树，但网络结构允许一个类型与多个类型相联甚至
 形成交叉