

Answers are in red, comments in green. I had fun with the comments.

1 - CONCEPT DEFINITIONS

1. Willie Wilson -e
 - (isa WillieW Professor)
 - (comment WillieW “A fun and lively postdoctoral researcher at Northwestern University. No longer has a moustache.”)
2. Irina Rabkina -e
 - (isa IrinaR PhDStudent)
 - (comment IrinaR “A PhD student at Northwestern University. More is known about her cats than her herself.”)
3. Faculty office -e
 - (isa facultyOffice OfficeRoom)
 - (comment facultyOffice “The faculty office is a room where the University teaching staff come to gossip about students.”)
4. Room 3106 -e
 - (isa room3106 OfficeRoom)
 - (comment room3106 “This is the 3106th room in Mudd Library. Yes, there are 3000+ rooms in Mudd Library.”)
5. Irina’s office -e
 - (isa officeIrina OfficeRoom)
 - (comment officeIrina “This is Irina’s office. Her cats secretly live here.”)
6. AI Collaboration Room 3108 -e
 - (isa room3108 StudyRoom)
 - (comment room3108 “A room sitting across from the infamous Kris Hammond. Students must crawl beneath the shutters to get in.”)
7. Women’s restroom -c
 - (isa womens3rd WomensRoom)
 - (genls WomensRoom PublicRestroom)
 - (isa womens3rd PublicRestroom)
 - (comment womens3rd “Women’s restroom on the 3rd floor of Mudd Library.”)
8. Men’s restroom -c
 - (isa mens3rd MensRoom)
 - (genls MensRoom PublicRestroom)
 - (isa mens3rd PublicRestroom)
 - (comment mens3rd “Men’s restroom on the 3rd floor of Mudd Library.”)
9. Welcome desk -c
 - (isa welcomeDesk Desk-PieceOfFurniture)
 - (genls Desk-PieceOfFurniture Table-PieceOfFurniture)
 - (isa welcomeDesk Table-PieceOfFurniture)

- (comment welcomeDesk “Where lost students end up, asking for directions.”)

10. Companions Kiosk -c

- (isa compKiosk KioskProgram)
- (genls KioskProgram ComputerInterfaceDevice)
- (isa compKiosk ComputerInterfaceDevice)
- (comment compKiosk “A computer interface for people to interact with.”)

11. Northwest conference room -c

- (isa nwConfRoom ConferenceRoom)
- (genls ConferenceRoom Meetingspace)
- (isa nwConfRoom MeetingSpace)
- (comment nwConfRoom “A large room on the 3rd floor of Mudd Library meant for lectures and discussions.”)

12. Open workspace -c

- (isa openWKSP WorkEnvironment)
- (genls WorkEnvironment SocialEnvironment)
- (isa openWKSP SocialEnvironment)
- (comment openWKSP “Open area designed for students to sit around and work together.”)

13. Around the corner -p

- (isa aroundCorner BinaryPredicate)
- (genlpreds aroundCorner near)
- (arity aroundCorner 2)
- (arg1Isas aroundCorner Landmark-Underspecified)
- (arg2Isas aroundCorner Workplace)
- (comment aroundCorner “A symmetrical relation suggesting that one location lies at or around the corner from a location.”)
- NOTE: According to the KB, `Landmark-Underspecified` and `Workplace` are both specs of `SpatialThing`.

14. Across the hall -p

- (isa acrossHall BinaryPredicate)
- (genlpreds acrossHall near)
- (arity acrossHall 2)
- (arg1Isas acrossHall Workplace)
- (arg2Isas acrossHall Artifact)
- (comment acrossHall “A symmetrical relation suggesting that one location is currently across the hall from an object.”)
- NOTE: According to the KB, `Workplace` is a spec of `SpatialThing`.

15. Next door -p

- (isa nextDoor BinaryPredicate)
- (genlpreds nextDoor near)
- (arity nextDoor 2)

- (arg1Isas nextDoor Workplace)
- (arg2Isas nextDoor Workplace)
- (comment nextDoor “A symmetrical relation suggesting that both arguments reside next door or very near one another.”)
- NOTE: According to the KB, `Workplace` is a spec of `SpatialThing`.

2 - SENTENCES

1. Willie Wilson works in Room 3106.
 - NOTE 1: `worksAtFacility` is already in the KB. It has an arity of 2, taking in a `Person` and a `Facility-Generic`
 - NOTE 2: `Professor` is spec of `Person`, and `OfficeRoom` is a spec of `Facility-Generic`
 - (worksAtFacility WillieW room3106)
2. The Companions Kiosk is around the corner from Irina’s office.
 - NOTE: According to the KB, `ComputerInterfaceDevice` is a spec of `Landmark-Underspecified` and `OfficeRoom` is a spec of `Workplace`, and for #4, `OfficeRoom` is also a spec of `Landmark-Underspecified`.
 - (aroundCorner compKiosk officeIrina)
3. An open workspace is across the hall from the welcome desk.
 - NOTE: According to the KB, `WorkEnvironment` and `OfficeRoom` are both specs of `Workplace`.
 - (acrossHall openWKSP welcomeDesk)
4. The AI Collaboration room is next door to the office that’s next door to Irina’s office and around the corner from Room 3106.
 - i. (isa office123 OfficeRoom)
 - And now 2 variations:
 - i. 1st variation:
 1. (nextDoor room3108 office123)
 2. (nextDoor office123 officeIrina)
 3. (aroundCorner room3108 room3106)
 - ii. 2nd variation:
 1. (nextDoor room3108 office123)
 2. (nextDoor office123 officeIrina)
 3. (aroundCorner office123 room3106)