

HW2

Timo Wang

January 24, 2020

1 Concept Definitions

1.1 Danilo Ribeiro

This **entity** concept is defined below.

```
(isa DaniloRibeiro Individual)
(isa DaniloRibeiro MaleHuman)
(isa DaniloRibeiro PhDStudent)
(prettyString-Canonical DaniloRibeiro "Ribeiro, Danilo")
(comment DaniloRibeiro "A male PhD student at Northwestern University.")
```

1.2 Irina Rabkina

This **entity** concept is defined below.

```
(isa IrinaRabkina Individual)
(isa IrinaRabkina FemaleHuman)
(isa IrinaRabkina PhDStudent)
(prettyString-Canonical IrinaRabkina "Rabkina, Irina")
(comment DaniloRibeiro "A female PhD student at Northwestern University.")
```

1.3 Faculty Office

This **collection** concept is defined below.

```
(isa FacultyOffice ContactLocationType)
(isa FacultyOffice SpatiallyDisjointObjectType)
(genls FacultyOffice OfficeRoom)
(genls FacultyOffice OfficeSpace-Personal)
(genls FacultyOffice PartOfBuilding)
(genls FacultyOffice RoomInAConstruction)
(comment FacultyOffice
  "Single-room offices where one or two faculties typically work.")
```

1.4 Room 3106

This **entity** concept is defined below.

```
(isa Room-3106 RoomInAConstruction)
(isa Room-3106 PartOfBuilding)
(isa Room-3106 SpatiallyDisjointObjectType)
```

```
(prettyString-Canonical Room-3106 "RM 3106")
(comment Room-3106 "An office in Mudd Building with number 3106.")
```

1.5 Irina's Office

This **entity** concept is defined below.

```
(isa OfficeOfIrina OfficeRoom)
(isa OfficeOfIrina RoomInAConstruction)
(isa OfficeOfIrina PartOfBuilding)
(comment OfficeOfIrina "The office where Irina Rabkina works.")
```

1.6 AI Collaboration Room

This **entity** concept is defined below.

```
(isa AICollaborationRoom StudyRoom)
(isa AICollaborationRoom WorkRoom)
(isa AICollaborationRoom PartOfBuilding)
(isa AICollaborationRoom RoomInAConstruction)
(comment AICollaborationRoom
  "The room for people to study or work together in the field of AI")
```

1.7 Women's restroom

This **entity** concept is defined below.

```
(isa WomensRestroom WomensRoom)
(isa WomensRestroom PublicRestroom)
(isa WomensRestroom PartOfBuilding)
(isa WomensRestroom RoomInAConstruction)
(comment WomensRestroom
  "The restroom for women only in the Mudd Building")
```

1.8 Men's restroom

This **entity** concept is defined below.

```
(isa MensRestroom WomensRoom)
(isa MensRestroom PublicRestroom)
(isa MensRestroom PartOfBuilding)
(isa MensRestroom RoomInAConstruction)
(comment MensRestroom
  "The restroom for men only in the Mudd Building")
```

1.9 Welcome desk

This **entity** concept is defined below.

```
(isa WelcomeDesk InformationCenter)
(isa WelcomeDesk InformationProvidingOrganization)
(isa WelcomeDesk SingleSiteOrganization)
(isa WelcomeDesk PartOfBuilding)
(comment WelcomeDesk
  "The location where visitors or students or professors
  can get some quick information.")
```

1.10 Companions Kiosk

This **entity** concept is defined below.

```
(isa CompanionsKiosk InformationCenter)
(isa CompanionsKiosk InformationProvidingOrganization)
(isa CompanionsKiosk SingleSiteOrganization)
(isa CompanionsKiosk CompanionsDomain)
(isa CompanionsKiosk PartOfBuilding)
(comment CompanionsKiosk
  "A kiosk where visitors or students or professors can get
  the direction to the office of whomever they want to visit.")
```

1.11 Northwest conference room

This **entity** concept is defined below.

```
(isa ConferenceRoom-Northwest ConferenceRoom)
(isa ConferenceRoom-Northwest MeetingSpace)
(isa ConferenceRoom-Northwest PartOfBuilding)
(isa ConferenceRoom-Northwest RoomInAConstruction)
(comment ConferenceRoom-Northwest
  "The conference room at the north west corner of Mudd.")
```

1.12 Open workspace

This **collection** concept is defined below.

```
(isa OpenWorkspace ExistingObjectType)
(isa OpenWorkspace SpatiallyDisjointObjectType)
(genls OpenWorkspace PartOfBuilding)
(genls OpenWorkspace WorkEnvironment)
(comment OpenWorkspace
  "A space or environment where everyone can utilize to do work.")
```

1.13 Around the corner

This **predicate** concept is defined below.

```
(isa aroundCornerFrom BinaryPredicate)
(isa aroundCornerFrom RelativeLocationalPredicate)
(genlPreds aroundCornerFrom near)
(arity aroundCornerFrom 2)
(arg1Isa aroundCornerFrom SpatialThing)
(arg2Isa aroundCornerFrom SpatialThing)
(comment aroundCornerFrom
  "This relation predicate indicates that arg1 is around the corner
  from arg2.")
```

1.14 Across the hall

This **predicate** concept is defined below.

```
(isa acrossTheHallFrom BinaryPredicate)
(isa acrossTheHallFrom RelativeLocationalPredicate)
(genlPreds acrossTheHallFrom near)
```

```
(arity acrossTheHallFrom 2)
(arg1Isa acrossTheHallFrom SpatialThing)
(arg2Isa acrossTheHallFrom SpatialThing)
(comment acrossTheHallFrom
  "This relation predicate indicates that arg1 is across the hall
  from arg2.")
```

1.15 Next door

This **predicate** concept is defined below.

```
(isa nextDoorTo BinaryPredicate)
(isa nextDoorTo RelativeLocationalPredicate)
(genlPreds nextDoorTo near)
(arity nextDoorTo 2)
(arg1Isa nextDoorTo SpatialThing)
(arg2Isa nextDoorTo SpatialThing)
(comment nextDoorTo
  "This relation predicate indicates that arg1 is next door to
  arg2.")
```

2 Sentences

2.1

```
(isa working001 WorkingEvent)
(doneBy working001 DaniloRibeiro)
(eventOccursAt working001 Room-3106)
```

2.2

```
(aroundCornerFrom CompanionsKiosk OfficeOfIrina)
```

2.3

```
(isa ow001 OpenWorkspace)
(acrossTheHallFrom WelcomeDesk ow001)
```

2.4

```
(isa office001 OfficeRoom)
(nextDoorTo office001 OfficeOfIrina)
(aroundCornerFrom office001 Room-3106)
(nextDoorTo AICollaborationRoom office001)
```