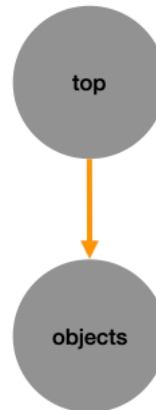


Manual para la representación de la base de conocimientos

Definición de la ontología y de las clases que la conforman:

```
{
  "ontology": [
    {
      "class": "top",
      "mother": null,
      "properties": [],
      "relations": [],
      "individuals": []
    },
    {
      "class": "object",
      "mother": "top",
      "properties": [],
      "relations": [],
      "individuals": []
    }
  ]
}
```



Definición de propiedades booleanas tanto para clases como para individuos:

```
{
  "type": "bool",
  "name": "fun",
  "value": true, <— Valor booleano
  "priority": 0
}
```

Definición de propiedades de valor:

```
{
  "type": "value",
  "name": "size",
  "value": "large", <— puede ser una lista de strings
  "bool": true, <— si es False
  "priority": 0
}
```

Definición de propiedades de implicación (solo para clases):

```
{
  "type": "imp",
  "antecedent": "born",
  "consequent": "study",
  "value": [true, true],
  "priority": 5
}
```

born(_) =>> study(_)

```
{
  "type": "imp",
  "antecedent": ["born", "sleep"],
  "consequent": "study",
  "value": [true, true, true],
  "priority": 5
}
```

born(_) & sleep(_) =>> study(_)

Definición de relaciones:

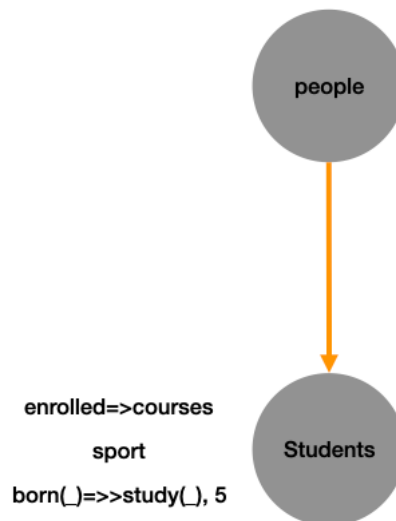
```
{
  "type": "value",
  "subject": "enrolled",
  "object": "courses",
  "value": true,
  "priority": 0
}
```

enrolled => courses

not(enrolled => courses)

Definición de clase con propiedades y relaciones:

```
{
  "clase": "students",
  "mother": "people",
  "properties": [
    {
      "type": "bool",
      "name": "sport",
      "value": true,
      "priority": 0
    },
    {
      "type": "imp",
      "antecedent": "born",
      "consequent": "study",
      "value": [true, true],
      "priority": 5
    }
  ]
}
```



```

"relations": [
  {
    "type": "value",
    "subject": "enrolled",
    "object": "courses",
    "value": true,
    "priority": 0
  }
],
"individuals": []
}

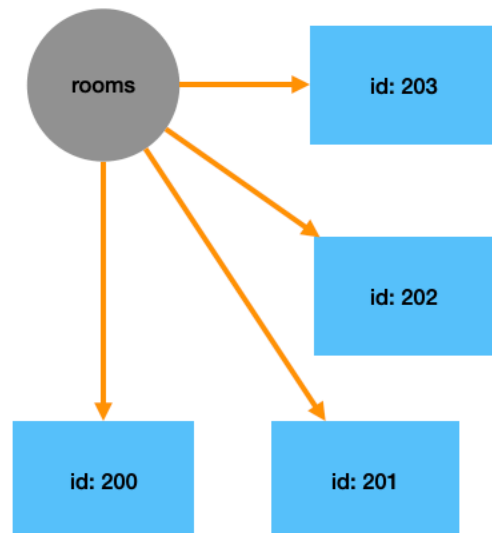
```

Definición de un individuos dentro de clase:

```

{
  "clase": "rooms",
  "mother": "concrete",
  "properties": [],
  "relations": [],
  "individuals": [
    {
      "id": "200",
      "properties": [],
      "relations": []
    },
    {
      "id": "201",
      "properties": [],
      "relations": []
    },
    {
      "id": "202",
      "properties": [],
      "relations": []
    },
    {
      "id": "203",
      "properties": [],
      "relations": []
    }
  ]
}

```



Definición de individuo con propiedades y relaciones:

```
{
  "clase": "students",
  "mother": "people",
  "properties": [],
  "relations": [],
  "individuals": [
    {
      "id": "pete",
      "properties": [
        {
          "type": "bool",
          "name": "teach",
          "value": true,
          "priority": 0
        },
        {
          "type": "value",
          "name": "work",
          "value": "uk",
          "bool": true,
          "priority": 0
        },
        {
          "type": "value",
          "name": "born",
          "value": "mexico",
          "bool": true,
          "priority": 0
        }
      ],
      "relations": [
        {
          "type": "value",
          "subject": "enrolled",
          "object": "prog",
          "value": false,
          "priority": 0
        }
      ]
    }
  ]
}
```

