



# TRABALHO ONTOLOGIA

LUCAS LOBATO DA SILVA AMORIM



# DOMÍNIO: CONSELHO JEDI







MOTIVAÇÃO



Essa ontologia pode ser usada para representar e organizar informações relacionadas aos Jedi, seu treinamento, filosofia e hierarquia dentro da ordem Jedi.





DOMÍNIO

## Classes:

- Jedi: Representa um Jedi individual, com propriedades como nome, espécie, mestre, aprendizes, etc.
- MestreJedi: Subclasse de Jedi, representando um Jedi que alcançou o nível de mestre.
- AprendizJedi (Padawan): Subclasse de Jedi, representando um Jedi em treinamento.
- ConselhoJedi: Representa o conselho que governa a ordem Jedi, com propriedades como nome, membros, etc.



## Propriedades:

- nome: O nome do Jedi ou do Conselho Jedi.
- mestre: O mestre Jedi de um aprendiz.
- aprendizes: Os aprendizes Jedi sob a tutela de um mestre.
- membros: Os membros do Conselho Jedi.



Nome: Mace Windu

Mestre: Não possui

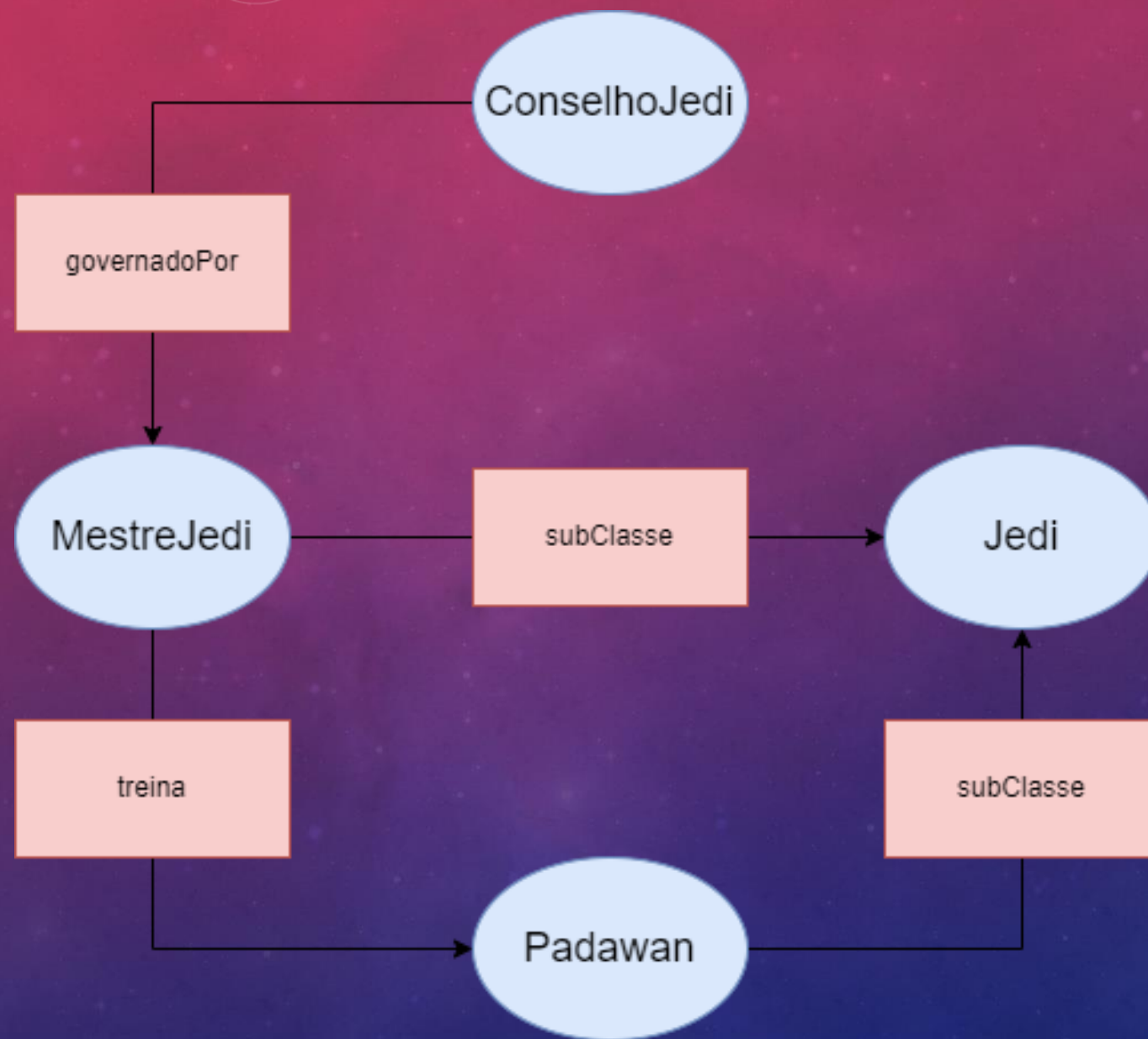
Aprendiz: Depa Billaba

Membro: Sim

## Relações:

- treinadoPor: Relaciona um Jedi aprendiz ao seu mestre Jedi.
- treina: Relaciona um mestre Jedi ao seu aprendiz
- governadoPor: Relaciona o Conselho Jedi à ordem que governa.
- governa: Relaciona um mestre Jedi ao conselho Jedi.





The background features a dark, starry night sky. Overlaid on this are several concentric circles. The innermost circle is a solid dark blue. The next ring out is a lighter blue with a fine, grainy texture. The outermost ring is a solid magenta color. On the right side, there is a faint, semi-circular scale with numerical markings from 120 to 190. The word "IMPLEMENTAÇÃO" is centered within the innermost blue circle in a white, sans-serif font.

IMPLEMENTAÇÃO



Class hierarchy: MestreJedi

Class hierarchy: MestreJedi



MestreJedi — http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi#MestreJedi

Annotations Usage

Annotations: MestreJedi

Annotations +

Description: MestreJedi

Equivalent To +

SubClass Of +

Jedi

General class axioms +

SubClass Of (Anonymous Ancestor)

Instances +

Target for Key +

Disjoint With +

Padawan

Disjoint Union Of +

>treina

Active ontology x Entities x Individuals by class x DL Query x

Classes Object properties Data properties Annotation properties Datatypes Individuals

Object property hierarchy: treina

owl:topObjectProperty

- governa
- governadoPor
- treina
- treinadoPor

Asserted

treina — http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi#treina

Annotations Usage

Annotations: treina

Annotations +

Characteristics: t

- ☐ Functional
- ☐ Inverse functional
- ☐ Transitive
- ☐ Symmetric
- ☐ Asymmetric
- ☐ Reflexive
- ☐ Irreflexive

Description: treina

Equivalent To +

SubProperty Of +

Inverse Of +

treinadoPor

Domains (intersection) +

MestreJedi

Ranges (intersection) +






Padawan

Disjoint With +


SuperProperty Of (Chain) +






-  AltoConselhoJedi
-  AnakinSkywalker
-  MaceWindu
-  ObiWanKenobi
-  Yoda



Annotations 

Types 



 Padawan 

Same Individual As 

Different Individuals 

 MaceWindu, ObiWanKenobi, Yoda 

Object property assertions 






 treinadoPor ObiWanKenobi 

Data property assertions 

Negative object property assertions 

Negative data property assertions 




 AltoConselhoJedi  
 AnakinSkywalker  
 MaceWindu  
 ObiWanKenobi  
 Yoda



Annotations +




Types +

 MestreJedi



Same Individual As +

Different Individuals +


 AnakinSkywalker, MaceWindu, Yoda



Object property assertions +

 governa AltoConselhoJedi



 treina AnakinSkywalker



Data property assertions +

Negative object property assertions +

Negative data property assertions +



The background features a dark, starry night sky. Overlaid on this are several concentric circles. The innermost circle is a solid magenta color. The next ring out is a translucent blue band. This is followed by another translucent magenta ring. The outermost ring is a translucent blue band that contains a white arc with numerical markings ranging from 120 to 190. The word "CONSULTAS" is centered in the magenta circle.

CONSULTAS

conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi) : [http://www.semanticweb.org/neolu/ontologies/2023/5/untitled-ontology-4]

File Edit View Reasoner Tools Refactor Window Help

< > conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi)

> Jedi > MestreJedi

Active ontology \* Entities \* Individuals by class \* DL Query \*

Class hierarchy: MestreJedi

Asserted

- owl:Thing
  - ConselhoJedi
    - Jedi
      - MestreJedi
      - Padawan

DL query:

Query (class expression)

MestreJedi

Execute Add to ontology

Query results

Instances (3 of 3)

- MaceWindu
- ObiWanKenobi
- Yoda

Query for

- ☐ Direct superclasses
- ☐ Superclasses
- ☐ Equivalent classes
- ☐ Direct subclasses
- ☐ Subclasses
- ☒ Instances

Result filters

Name contains

☒ Display owl:Thing  
(in superclass results)

☒ Display owl:Nothing  
(in subclass results)

Reasoner active ☒ Show Inferences

Consulta para saber quem são os indivíduos que são Mestre Jedi.



conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi) : [http://www.semanticweb.org/neolu/ontologies/2023/5/untitled-ontology-4]

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< > conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi)

> Jedi > MestreJedi

Active ontology × Entities × Individuals by class × DL Query ×

Class hierarchy: MestreJedi

owl:Thing  
├── ConselhoJedi  
└── Jedi  
    ├── MestreJedi  
    └── Padawan

DL query:

Query (class expression)

Jedi

Execute Add to ontology

Query results

Subclasses (3 of 3)

MestreJedi	?
Padawan	?
owl:Nothing	?

Query for

- ☐ Direct superclasses
- ☐ Superclasses
- ☐ Equivalent classes
- ☐ Direct subclasses
- ☒ Subclasses
- ☐ Instances

Result filters

Name contains

☒ Display owl:Thing  
(in superclass results)

☒ Display owl:Nothing  
(in subclass results)

Reasoner active ☒ Show Inferences

Consulta para saber as subclasses de Jedi.

conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi) : [http://www.semanticweb.org/neolu/ontologies/2023/5/untitled-ontology-4]

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> Jedi > MestreJedi

Active ontology × Entities × Individuals by class × DL Query ×

Class hierarchy: MestreJedi

Asserted

- owl:Thing
  - ConselhoJedi
    - Jedi
      - MestreJedi
      - Padawan

DL query:

Query (class expression)

Padawan and treinadoPor value ObiWanKenobi

Execute Add to ontology

Query results

Instances (1 of 1)

- AnakinSkywalker

Query for

- ☐ Direct superclasses
- ☐ Superclasses
- ☐ Equivalent classes
- ☐ Direct subclasses
- ☐ Subclasses
- ☒ Instances

Result filters

Name contains

☐ Display owl:Thing  
(in superclass results)

☒ Display owl:Nothing  
(in subclass results)

Reasoner active ☒ Show Inferences

Consulta para saber o Padawan que é treinado pelo Obi Wan Kenobi



conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi) : [http://www.semanticweb.org/neolu/ontologies/2023/5/untitled-ontology-4]

File Edit View Reasoner Tools Refactor Window Help

< > conselhoJedi (http://www.semanticweb.org/neolu/ontologies/2023/5/conselhoJedi)

> conselhoJedi

Active ontology \* Entities \* Individuals by class \* DL Query \*

Class hierarchy: conselhoJedi

owl:Thing  
├── conselhoJedi  
└── Jedi  
    ├── MestreJedi  
    └── Padawan

Asserted

DL query:

Query (class expression)

MestreJedi and governa value AltoConselhoJedi

Execute Add to ontology

Query results

Instances (3 of 3)

- MaceWindu
- ObiWanKenobi
- Yoda

Query for

- ☐ Direct superclasses
- ☐ Superclasses
- ☐ Equivalent classes
- ☐ Direct subclasses
- ☐ Subclasses
- ☒ Instances

Result filters

Name contains

☐ Display owl:Thing  
(in superclass results)

☒ Display owl:Nothing  
(in subclass results)

Reasoner active ☒ Show Inferences

Consulta para saber quem são os mestres Jedi que governam o Alto Conselho Jedi.



FIM

Que a força esteja com você