

# ONTOLOGIA SCRITTA IN DL-Lite<sub>A</sub>

## CONCEPTS

ACTOR  $\subseteq \exists \text{ actor2movie}$

ACTOR  $\subseteq \text{id}(\text{id})$

ACTOR  $\subseteq \text{id}(\text{name})$

ACTOR  $\subseteq \text{id}(\text{surname})$

ACTOR  $\subseteq \text{id}(\text{sex})$

AKANAME  $\subseteq \exists \text{ actorsaka}^-$

AKANAME  $\subseteq \text{id}(\text{akaname})$

AKANAME  $\subseteq \text{id}(\text{akasurname})$

PRODDESIGNER  $\subseteq \exists \text{ proddesignby}^-$

PRODDESIGNER  $\subseteq \text{id}(\text{name})$

PRODDESIGNER  $\subseteq \text{id}(\text{surname})$

DIRECTOR  $\subseteq \exists \text{ directedby}^-$

DIRECTOR  $\subseteq \text{id}(\text{name})$

DIRECTOR  $\subseteq \text{id}(\text{surname})$

PRODUCER  $\subseteq \exists \text{ prodby}^-$

PRODUCER  $\subseteq \text{id}(\text{name})$

PRODUCER  $\subseteq \text{id}(\text{surname})$

AKATITLE  $\subseteq \exists \text{ moviesaka}^-$

AKATITLE  $\subseteq \text{id}(\text{title})$

ITAKATITLE  $\subseteq \exists \text{ moviesitaka}^-$

ITAKATITLE  $\subseteq \text{id}(\text{title})$

CINEMATOGRAPHER  $\subseteq \exists \text{ cinematographyby}^-$

CINEMATOGRAPHER  $\subseteq \text{id}(\text{name})$

CINEMATOGRAPHER  $\subseteq \sigma(\text{surname})$

DESIGNER  $\subseteq \exists \text{ designer2movie}^-$

DESIGNER  $\subseteq \sigma(\text{name})$

DESIGNER  $\subseteq \sigma(\text{surname})$

DISTRIBUTOR  $\subseteq \exists \text{ distributed}^-$

DISTRIBUTOR  $\subseteq \sigma(\text{name})$

KEYWORD  $\subseteq \sigma(\text{word})$

PLOT  $\subseteq \exists \text{ plot2movie}$

PLOT  $\subseteq \sigma(\text{id})$

PLOT  $\subseteq \sigma(\text{plot})$

PLOT  $\subseteq \sigma(\text{author})$

GOOF  $\subseteq \exists \text{ goof2movie}$

GOOF  $\subseteq \sigma(\text{id})$

GOOF  $\subseteq \sigma(\text{goof})$

ALTVERSION  $\subseteq \exists \text{ altversion2movie}$

ALTVERSION  $\subseteq \sigma(\text{id})$

ALTVERSION  $\subseteq \sigma(\text{version})$

TRIVIA  $\subseteq \exists \text{ trivia2movies}$

TRIVIA  $\subseteq \sigma(\text{id})$

TRIVIA  $\subseteq \sigma(\text{trivia})$

TAG  $\subseteq \exists \text{ tag2movie}$

TAG  $\subseteq \sigma(\text{id})$

TAG  $\subseteq \sigma(\text{tag})$

CRAZYCREDIT  $\subseteq \exists \text{ crazycredit2movie}$

CRAZYCREDIT  $\subseteq \sigma(\text{id})$

CRAZYCREDIT  $\subseteq \sigma(\text{credit})$

LANGUAGE  $\subseteq \exists \text{ lang2movie}$

LANGUAGE  $\subseteq \text{f}(\text{name})$

LINK  $\subseteq \exists \text{ movielinks}^-$

LINK  $\subseteq \text{f}(\text{id})$

LINK  $\subseteq \text{f}(\text{featured\_in})$

LINK  $\subseteq \text{f}(\text{referenced\_in})$

LINK  $\subseteq \text{f}(\text{spin})$

LINK  $\subseteq \text{f}(\text{spoofed})$

LINK  $\subseteq \text{f}(\text{version})$

LINK  $\subseteq \text{f}(\text{followed})$

LINK  $\subseteq \text{f}(\text{features})$

LINK  $\subseteq \text{f}(\text{remake})$

LINK  $\subseteq \text{f}(\text{ref})$

COUNTRY  $\subseteq \exists \text{ in}$

COUNTRY  $\subseteq \text{f}(\text{name})$

LOCATION  $\subseteq \exists \text{ in}^-$

LOCATION  $\subseteq \text{f}(\text{city})$

SFXCOMPANY  $\subseteq \exists \text{ country2sfx}^-$

SFXCOMPANY  $\subseteq \exists \text{ sfxby}^-$

SFXCOMPANY  $\subseteq \text{f}(\text{name})$

COMPOSER  $\subseteq \exists \text{ musicby}^-$

COMPOSER  $\subseteq \text{f}(\text{name})$

COMPOSER  $\subseteq \text{f}(\text{surname})$

EDITOR  $\subseteq \exists \text{ editby}^-$

EDITOR  $\subseteq \text{f}(\text{name})$

EDITOR  $\subseteq \text{f}(\text{surname})$

WRITER  $\subseteq \exists$  writerby<sup>-</sup>

WRITER  $\subseteq \text{f}(\text{name})$

WRITER  $\subseteq \text{f}(\text{surname})$

SOUNDTRACK  $\subseteq \text{f}(\text{name})$

SOUNDTRACK  $\subseteq \text{f}(\text{writer})$

SOUNDTRACK  $\subseteq \text{f}(\text{composer})$

SOUNDTRACK  $\subseteq \text{f}(\text{musician})$

PRODCOMPANY  $\subseteq \exists$  prodcompany2movie

PRODCOMPANY  $\subseteq \exists$  prodcompany2country

PRODCOMPANY  $\subseteq \text{f}(\text{name})$

MOVIES  $\subseteq \exists$  lang2movie<sup>-</sup>

MOVIES  $\subseteq \exists$  designer2movie<sup>-</sup>

MOVIES  $\subseteq \exists$  distributed

MOVIES  $\subseteq \exists$  releasein

MOVIES  $\subseteq \exists$  shotin

MOVIES  $\subseteq \exists$  located

MOVIES  $\subseteq \exists$  musicby

MOVIES  $\subseteq \exists$  editby

MOVIES  $\subseteq \exists$  writerby

MOVIES  $\subseteq \exists$  prodcompany2movie<sup>-</sup>

MOVIES  $\subseteq \exists$  actor2movie<sup>-</sup>

MOVIES  $\subseteq \exists$  proddesignby

MOVIES  $\subseteq \exists$  directedby

MOVIES  $\subseteq \exists$  cinematographyby

MOVIES  $\subseteq \text{f}(\text{id})$

MOVIES  $\subseteq \text{f}(\text{title})$

MOVIES  $\subseteq$  ⚡(year)

MOVIES  $\subseteq$  ⚡(runtimes)

MOVIES  $\subseteq$  ⚡(sound)

MOVIES  $\subseteq$  ⚡(genre)

MOVIES  $\subseteq$  ⚡(colortype)

MOVIES  $\subseteq$  ⚡(crewcoverage)

MOVIES  $\subseteq$  ⚡(castcoverage)

MOVIES  $\subseteq$  ⚡(votes)

MOVIES  $\subseteq$  ⚡(rank)

MOVIES  $\subseteq$  ⚡(mpaa)

CERTIFICATE  $\subseteq$  🚩 released

CERTIFICATE  $\subseteq$  🚩 cert2movie

CERTIFICATE  $\subseteq$  ⚡(type)

## **ROLES**

🚩 key2movie<sup>-</sup>  $\subseteq$  MOVIES

🚩 key2movie  $\subseteq$  KEYWORD

🚩 plot2movie<sup>-</sup>  $\subseteq$  MOVIES

🚩 plot2movie  $\subseteq$  PLOT

🚩 goof2movie<sup>-</sup>  $\subseteq$  MOVIES

🚩 goof2movie  $\subseteq$  GOOF

🚩 altversion2movie<sup>-</sup>  $\subseteq$  MOVIES

🚩 alversion2movie  $\subseteq$  ALTVERSION

🚩 trivia2movie<sup>-</sup>  $\subseteq$  MOVIES

🚩 trivia2movie  $\subseteq$  TRIVIA

$\exists \text{ tag2movie}^- \subseteq \text{MOVIES}$

$\exists \text{ tag2movie} \subseteq \text{TAG}$

$\exists \text{ crazycredit2movie}^- \subseteq \text{MOVIES}$

$\exists \text{ crazycredit2movie} \subseteq \text{CRAZYCREDIT}$

$\exists \text{ lang2movie}^- \subseteq \text{MOVIES}$

$\exists \text{ lang2movie} \subseteq \text{LANGUAGE}$

$\exists \text{ movielinks}^- \subseteq \text{LINK}$

$\exists \text{ movielinks} \subseteq \text{MOVIES}$

$\exists \text{ moviesaka}^- \subseteq \text{AKATITLE}$

$\exists \text{ moviesaka} \subseteq \text{MOVIES}$

$\exists \text{ moviesitaka}^- \subseteq \text{ITAKATITLE}$

$\exists \text{ moviesitaka} \subseteq \text{MOVIES}$

$\exists \text{ cinematographyby}^- \subseteq \text{CINEMATOGRAPHER}$

$\exists \text{ cinematographyby} \subseteq \text{MOVIES}$

$\exists \text{ designer2movie}^- \subseteq \text{DESIGNER}$

$\exists \text{ designer2movie} \subseteq \text{MOVIES}$

$\exists \text{ distributed}^- \subseteq \text{DISTRIBUTOR}$

$\exists \text{ distributed} \subseteq \text{MOVIES}$

$\exists \text{ releasein}^- \subseteq \text{COUNTRY}$

$\exists \text{ releasein} \subseteq \text{MOVIES}$

$\exists \text{ located}^- \subseteq \text{COUNTRY}$

$\exists \text{ located} \subseteq \text{MOVIES}$

$\exists \text{ sfxby}^- \subseteq \text{SFXCOMPANY}$

$\exists \text{ sfxby} \subseteq \text{MOVIES}$

$\exists \text{ musicby}^- \subseteq \text{COMPOSER}$

$\exists \text{ musicby}^- \subseteq \text{MOVIES}$

$\exists \text{ editby}^- \subseteq \text{EDITOR}$

$\exists \text{ editby} \subseteq \text{MOVIES}$

$\exists \text{ writerby}^- \subseteq \text{WRITER}$

$\exists \text{ writerby} \subseteq \text{MOVIES}$

$\exists \text{ tracklist}^- \subseteq \text{SOUNDTRACK}$

$\exists \text{ tracklist} \subseteq \text{MOVIES}$

$\exists \text{ prodcompany2movie}^- \subseteq \text{PRODCOMPANY}$

$\exists \text{ prodcompany2movie} \subseteq \text{MOVIES}$

$\exists \text{ actor2movie}^- \subseteq \text{MOVIES}$

$\exists \text{ actor2movie} \subseteq \text{ACTOR}$

$\exists \text{ actorsaka}^- \subseteq \text{AKANAME}$

$\exists \text{ actorsaka} \subseteq \text{ACTOR}$

$\exists \text{ proddesignby}^- \subseteq \text{PRODDESIGNER}$

$\exists \text{ proddesignby} \subseteq \text{MOVIES}$

$\exists \text{ directedby}^- \subseteq \text{DIRECTOR}$

$\exists \text{ directedby} \subseteq \text{MOVIES}$

$\exists \text{ prodby}^- \subseteq \text{PRODUCER}$

$\exists \text{ prodby} \subseteq \text{MOVIES}$

$\exists \text{ prodcompany2country}^- \subseteq \text{COUNTRY}$

$\exists \text{ prodcompany2country} \subseteq \text{PRODCOMPANY}$

$\exists \text{ country2sfx}^- \subseteq \text{SFXCOMPANY}$

$\exists \text{ country2sfx} \subseteq \text{COUNTRY}$

$\exists \text{ in}^- \subseteq \text{LOCATION}$

$\exists \text{ in} \subseteq \text{COUNTRY}$

$\exists \text{distributor2country}^- \subseteq \text{COUNTRY}$

$\exists \text{distributor2country} \subseteq \text{DISTRIBUTOR}$

$\exists \text{released}^- \subseteq \text{COUNTRY}$

$\exists \text{released} \subseteq \text{CERTIFICATE}$

$\exists \text{cert2movie}^- \subseteq \text{MOVIE}$

$\exists \text{cert2movie} \subseteq \text{CERTIFICATE}$

## **CONCEPTS ATTRIBUTES**

$\rho(\text{id}) \subseteq \text{xsd:int}$

$\rho(\text{name}) \subseteq \text{xsd:string}$

$\rho(\text{surname}) \subseteq \text{xsd:string}$

$\rho(\text{sex}) \subseteq \text{xsd:string}$

$\rho(\text{akaname}) \subseteq \text{xsd:string}$

$\rho(\text{akasurname}) \subseteq \text{xsd:string}$

$\rho(\text{title}) \subseteq \text{xsd:string}$

$\rho(\text{version}) \subseteq \text{xsd:string}$

$\rho(\text{type}) \subseteq \text{xsd:string}$

$\rho(\text{credit}) \subseteq \text{xsd:string}$

$\rho(\text{goof}) \subseteq \text{xsd:string}$

$\rho(\text{word}) \subseteq \text{xsd:string}$

$\rho(\text{featured\_in}) \subseteq \text{xsd:string}$

$\rho(\text{referenced\_in}) \subseteq \text{xsd:string}$

$\rho(\text{spin}) \subseteq \text{xsd:string}$

$\rho(\text{spoofed}) \subseteq \text{xsd:string}$

$\rho(\text{followed}) \subseteq \text{xsd:string}$

$\rho(\text{features}) \subseteq \text{xsd:string}$



$\rho(\text{remake}) \subseteq \text{xsd:string}$   
 $\rho(\text{follows}) \subseteq \text{xsd:string}$   
 $\rho(\text{ref}) \subseteq \text{xsd:string}$   
 $\rho(\text{city}) \subseteq \text{xsd:string}$   
 $\rho(\text{year}) \subseteq \text{xsd:string}$   
 $\rho(\text{runtimes}) \subseteq \text{xsd:string}$   
 $\rho(\text{sound}) \subseteq \text{xsd:string}$   
 $\rho(\text{genre}) \subseteq \text{xsd:string}$   
 $\rho(\text{crewcoverage}) \subseteq \text{xsd:string}$   
 $\rho(\text{castcoverage}) \subseteq \text{xsd:string}$   
 $\rho(\text{colortype}) \subseteq \text{xsd:string}$   
 $\rho(\text{votes}) \subseteq \text{xsd:int}$   
 $\rho(\text{rank}) \subseteq \text{xsd:float}$   
 $\rho(\text{mpaa}) \subseteq \text{xsd:string}$   
 $\rho(\text{akatitle}) \subseteq \text{xsd:string}$   
 $\rho(\text{plot}) \subseteq \text{xsd:string}$   
 $\rho(\text{author}) \subseteq \text{xsd:string}$   
 $\rho(\text{writer}) \subseteq \text{xsd:string}$   
 $\rho(\text{composer}) \subseteq \text{xsd:string}$   
 $\rho(\text{musician}) \subseteq \text{xsd:string}$   
 $\rho(\text{tag}) \subseteq \text{xsd:string}$   
 $\rho(\text{trivia}) \subseteq \text{xsd:string}$   
 $\rho(\text{type}) \subseteq \text{xsd:string}$

## **ROLES ATTRIBUTES**

$\rho(\text{year}) \subseteq \text{xsd:string}$   
 $\rho(\text{date}) \subseteq \text{xsd:string}$   
 $\rho(\text{role}) \subseteq \text{xsd:string}$

## **VALUES DOMAIN**

ACTOR  $\subseteq$   $\mathcal{D}(\text{id})$

ACTOR  $\subseteq$   $\mathcal{D}(\text{name})$

ACTOR  $\subseteq$   $\mathcal{D}(\text{surname})$

ACTOR  $\subseteq$   $\mathcal{D}(\text{sex})$

AKANAME  $\subseteq$   $\mathcal{D}(\text{akaname})$

AKANAME  $\subseteq$   $\mathcal{D}(\text{akasurname})$

AKATITLE  $\subseteq$   $\mathcal{D}(\text{title})$

ALTVERSION  $\subseteq$   $\mathcal{D}(\text{id})$

ALTVERSION  $\subseteq$   $\mathcal{D}(\text{version})$

CERTIFICATE  $\subseteq$   $\mathcal{D}(\text{type})$

CINEMATOGRAPHER  $\subseteq$   $\mathcal{D}(\text{name})$

CINEMATOGRAPHER  $\subseteq$   $\mathcal{D}(\text{surname})$

COMPOSER  $\subseteq$   $\mathcal{D}(\text{name})$

COMPOSER  $\subseteq$   $\mathcal{D}(\text{surname})$

COUNTRY  $\subseteq$   $\mathcal{D}(\text{name})$

CRAZYCREDIT  $\subseteq$   $\mathcal{D}(\text{id})$

CRAZYCREDIT  $\subseteq$   $\mathcal{D}(\text{credit})$

DESIGNER  $\subseteq$   $\mathcal{D}(\text{name})$

DESIGNER  $\subseteq$   $\mathcal{D}(\text{surname})$

DIRECTOR  $\subseteq$   $\mathcal{D}(\text{name})$

DIRECTOR  $\subseteq$   $\mathcal{D}(\text{surname})$

DISTRIBUTOR  $\subseteq$   $\mathcal{D}(\text{name})$

EDITOR  $\subseteq$   $\mathcal{D}(\text{name})$

EDITOR  $\subseteq$   $\mathcal{D}(\text{surname})$

GOOF  $\subseteq$   $\mathcal{D}(\text{id})$

GOOF  $\subseteq$  ⚡(goof)

ITAKATITLE  $\subseteq$  ⚡(title)

CINEMATOGRAPHER  $\subseteq$  ⚡(name)

CINEMATOGRAPHER  $\subseteq$  ⚡(surname)

KEYWORD  $\subseteq$  ⚡(word)

LANGUAGE  $\subseteq$  ⚡(name)

LINK  $\subseteq$  ⚡(id)

LINK  $\subseteq$  ⚡(featured\_in)

LINK  $\subseteq$  ⚡(referenced\_in)

LINK  $\subseteq$  ⚡(spin)

LINK  $\subseteq$  ⚡(spoofed)

LINK  $\subseteq$  ⚡(version)

LINK  $\subseteq$  ⚡(followed)

LINK  $\subseteq$  ⚡(features)

LINK  $\subseteq$  ⚡(remake)

LINK  $\subseteq$  ⚡(follows)

LINK  $\subseteq$  ⚡(ref)

LOCATION  $\subseteq$  ⚡(city)

MOVIES  $\subseteq$  ⚡(id)

MOVIES  $\subseteq$  ⚡(title)

MOVIES  $\subseteq$  ⚡(year)

MOVIES  $\subseteq$  ⚡(runtimes)

MOVIES  $\subseteq$  ⚡(sound)

MOVIES  $\subseteq$  ⚡(genre)

MOVIES  $\subseteq$  ⚡(colortype)

MOVIES  $\subseteq$  ⚡(castcoverage)

MOVIES  $\subseteq$  ⚡(crewcoverage)

MOVIES  $\subseteq$  ⚡(votes)

MOVIES  $\subseteq$  ⚡(rank)

MOVIES  $\subseteq$  ⚡(mpaa)

PLOT  $\subseteq$  ⚡(id)

PLOT  $\subseteq$  ⚡(plot)

PLOT  $\subseteq$  ⚡(author)

PRODCOMPANY  $\subseteq$  ⚡(name)

PRODDESIGNER  $\subseteq$  ⚡(name)

PRODDESIGNER  $\subseteq$  ⚡(surname)

PRODUCER  $\subseteq$  ⚡(name)

PRODUCER  $\subseteq$  ⚡(surname)

SFXCOMPANY  $\subseteq$  ⚡(name)

SOUNDTRACK  $\subseteq$  ⚡(name)

SOUNDTRACK  $\subseteq$  ⚡(writer)

SOUNDTRACK  $\subseteq$  ⚡(composer)

SOUNDTRACK  $\subseteq$  ⚡(musician)

TAG  $\subseteq$  ⚡(id)

TAG  $\subseteq$  ⚡(tag)

TRIVIA  $\subseteq$  ⚡(id)

TRIVIA  $\subseteq$  ⚡(trivia)

WRITER  $\subseteq$  ⚡(name)

WRITER  $\subseteq$  ⚡(surname)

shotin  $\subseteq$  ⚡(year)

releasein  $\subseteq$  ⚡(date)

actor2movie  $\subseteq$  ⚡(role)

## **ATTRIBUTE FUNCTIONALITY**

(funct id)

(funct name)

(funct surname)

(funct sex)

(funct akaname)

(funct akasurname)

(funct title)

(funct version)

(funct type)

(funct credit)

(funct goof)

(funct word)

(funct featured\_in)

(funct referenced\_in)

(funct spin)

(funct spoofed)

(funct followed)

(funct features)

(funct remake)

(funct follows)

(funct ref)

(funct city)

(funct year)

(funct runtimes)

(funct sound)

(funct genre)

(funct crewcoverage)

(funct castcoverage)

(funct colortype)

(funct votes)

(funct rank)

(funct mpaa)

(funct akatitle)

(funct plot)

(funct author)

(funct writer)

(funct composer)

(funct musician)

(funct tag)

(funct trivia)

(funct year)

(funct date)

(funct role)

## **ROLE FUNCTIONALITY**

(funct altversion2movie)

(funct cinematographyby)

(funct crazycredit2movie)

(funct directedby)

(funct distributor2country)

(funct editby)

(funct goof2movie)

(funct plot2movie)

(funct prodcompany2country)

(funct proddesignby)

(funct tag2movie)

(funct trivia2movie)

(funct actorsaka~)

(funct moviesaka~)

(funct moviesitaka~)

(funct movielinks~)

(funct in~)

(funct released)

(funct cert2movie)