

Description logic view: DOLCE-EL

Classes

abstract

abstract \sqsubseteq particular
abstract $\sqsubseteq \neg$ perdurant
abstract $\sqsubseteq \neg$ quality
abstract $\sqsubseteq \neg$ endurant

abstract-quality

abstract-quality \sqsubseteq quality
abstract-quality $\sqsubseteq \exists$ inherent-in non-physical-endurant
abstract-quality $\sqsubseteq \neg$ physical-quality
abstract-quality $\sqsubseteq \neg$ temporal-quality

abstract-region

abstract-region \sqsubseteq region
abstract-region $\sqsubseteq \neg$ temporal-region
abstract-region $\sqsubseteq \neg$ physical-region

accomplishment

accomplishment \sqsubseteq event

achievement

achievement \sqsubseteq event

amount-of-matter

amount-of-matter \sqsubseteq physical-endurant
amount-of-matter $\sqsubseteq \neg$ feature
amount-of-matter $\sqsubseteq \neg$ physical-object

arbitrary-sum

arbitrary-sum $\sqsubseteq \exists$ part endurant
arbitrary-sum \sqsubseteq endurant
arbitrary-sum $\sqsubseteq \neg$ non-physical-endurant
arbitrary-sum $\sqsubseteq \neg$ physical-endurant

dependent-place

dependent-place \sqsubseteq feature

endurant

endurant \sqsubseteq spatio-temporal-particular
endurant $\sqsubseteq \exists$ participant-in perdurant
endurant $\sqsubseteq \neg$ quality
endurant $\sqsubseteq \neg$ perdurant
endurant $\sqsubseteq \neg$ abstract

event

event \sqsubseteq perdurant

feature

feature \sqsubseteq physical-endurant
feature $\sqsubseteq \exists$ host physical-endurant
feature $\sqsubseteq \neg$ amount-of-matter
feature $\sqsubseteq \neg$ physical-object

non-physical-endurant

non-physical-endurant \sqsubseteq endurant
non-physical-endurant $\sqsubseteq \neg$ physical-endurant
non-physical-endurant $\sqsubseteq \neg$ arbitrary-sum

non-physical-object

non-physical-object \sqsubseteq non-physical-endurant
non-physical-object $\sqsubseteq \exists$ generically-dependent-on physical-endurant

particular

perdurant

perdurant \sqsubseteq spatio-temporal-particular
perdurant $\sqsubseteq \exists$ has-quality temporal-location.q
perdurant $\sqsubseteq \exists$ participant endurant
perdurant $\sqsubseteq \neg$ abstract
perdurant $\sqsubseteq \neg$ endurant
perdurant $\sqsubseteq \neg$ quality

physical-endurant

physical-endurant $\sqsubseteq \exists$ has-quality spatial-location.q
physical-endurant $\sqsubseteq \exists$ has-quality physical-quality
physical-endurant \sqsubseteq endurant
physical-endurant $\sqsubseteq \neg$ non-physical-endurant
physical-endurant $\sqsubseteq \neg$ arbitrary-sum

physical-object

physical-object \sqsubseteq physical-endurant
physical-object $\sqsubseteq \neg$ amount-of-matter
physical-object $\sqsubseteq \neg$ feature

physical-quality

physical-quality \sqsubseteq quality
physical-quality $\sqsubseteq \exists$ inherent-in physical-endurant
physical-quality $\sqsubseteq \neg$ abstract-quality
physical-quality $\sqsubseteq \neg$ temporal-quality

physical-region

physical-region \sqsubseteq region
physical-region $\sqsubseteq \neg$ temporal-region
physical-region $\sqsubseteq \neg$ abstract-region

process

process \sqsubseteq stative

proposition

proposition \sqsubseteq abstract

quale

quale \equiv region $\sqcap \exists$ atomic-part-of region

quality

quality \sqsubseteq spatio-temporal-particular
quality $\sqsubseteq \exists$ inherent-in particular
quality $\sqsubseteq \neg$ endurant
quality $\sqsubseteq \neg$ abstract
quality $\sqsubseteq \neg$ perdurant

quality-space

region

region \sqsubseteq abstract

relevant-part

relevant-part \sqsubseteq feature

set

set \sqsubseteq abstract

space-region

space-region \sqsubseteq physical-region

spatial-location_q

spatial-location_q \sqsubseteq physical-quality

spatio-temporal-particular

spatio-temporal-region

spatio-temporal-region \sqsubseteq space-region

state

state \sqsubseteq stative

stative

stative \sqsubseteq perdurant

temporal-location_q

temporal-location_q \sqsubseteq temporal-quality

temporal-quality

temporal-quality \sqsubseteq quality

temporal-quality $\sqsubseteq \exists$ inherent-in perdurant

temporal-quality $\sqsubseteq \neg$ abstract-quality

temporal-quality $\sqsubseteq \neg$ physical-quality

temporal-region

temporal-region \sqsubseteq region

temporal-region $\sqsubseteq \neg$ physical-region

temporal-region $\sqsubseteq \neg$ abstract-region

time-interval

time-interval \sqsubseteq temporal-region

Object properties

abstract-location

\sqsubseteq exact-location
 \exists abstract-location Thing \sqsubseteq non-physical-endurant
 $\top \sqsubseteq \forall$ abstract-location abstract-region

abstract-location-of

\sqsubseteq exact-location-of
 \exists abstract-location-of Thing \sqsubseteq abstract-region
 $\top \sqsubseteq \forall$ abstract-location-of non-physical-endurant

atomic-part

\sqsubseteq part
 \exists atomic-part Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ atomic-part particular

atomic-part-of

\sqsubseteq part-of
 \exists atomic-part-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ atomic-part-of particular

boundary

\sqsubseteq proper-part
 \exists boundary Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ boundary particular

boundary-of

\sqsubseteq proper-part-of
 \exists boundary-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ boundary-of particular

constant-participant

\sqsubseteq participant
 \exists constant-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ constant-participant endurant

constant-participant-in

\sqsubseteq participant-in
 \exists constant-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ constant-participant-in perdurant

exact-location

\sqsubseteq generic-location
 \exists exact-location Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ exact-location region

exact-location-of

\sqsubseteq generic-location-of
 \exists exact-location-of Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ exact-location-of particular

generic-constituent

\sqsubseteq immediate-relation
 \exists generic-constituent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generic-constituent particular

generic-constituent-of

\sqsubseteq immediate-relation-i
 \exists generic-constituent-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generic-constituent-of particular

generic-dependent

\sqsubseteq immediate-relation
 \exists generic-dependent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generic-dependent particular

generic-location

\sqsubseteq mediated-relation
 \exists generic-location Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generic-location particular

generic-location-of

\sqsubseteq mediated-relation-i
 \exists generic-location-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generic-location-of particular

generically-dependent-on

\sqsubseteq immediate-relation-i
 \exists generically-dependent-on Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generically-dependent-on particular

has-qual

\sqsubseteq q-location
 \exists has-qual Thing \sqsubseteq quality
 $\top \sqsubseteq \forall$ has-qual quale

has-quality

\sqsubseteq immediate-relation-i
 \exists has-quality Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ has-quality quality

has-t-quality

\sqsubseteq has-quality
 \exists has-t-quality Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ has-t-quality quality

host

\sqsubseteq specifically-constantly-dependent-on
 \exists host Thing \sqsubseteq feature
 $\top \sqsubseteq \forall$ host physical-endurant

host-of

\sqsubseteq specific-constant-dependent
 \exists host-of Thing \sqsubseteq physical-endurant
 $\top \sqsubseteq \forall$ host-of feature

identity-c

\sqsubseteq immediate-relation
TransitivePropertyidentity-c
 \exists identity-c Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ identity-c particular

identity-n

\sqsubseteq immediate-relation
TransitivePropertyidentity-n
 \exists identity-n Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ identity-n particular

immediate-relation

\exists immediate-relation Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ immediate-relation particular

immediate-relation-i

\exists immediate-relation-i Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ immediate-relation-i particular

inherent-in

\sqsubseteq immediate-relation
 \exists inherent-in Thing \sqsubseteq quality
 $\top \sqsubseteq \forall$ inherent-in particular

life

\sqsubseteq constant-participant-in
 \exists life Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ life perdurant

life-of

\sqsubseteq constant-participant
 \exists life-of Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ life-of endurant

mediated-relation

\exists mediated-relation Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ mediated-relation particular

mediated-relation-i

\exists mediated-relation-i Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ mediated-relation-i particular

mereologically-coincides

\sqsubseteq temporary-part
 \exists mereologically-coincides Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ mereologically-coincides endurant

overlaps

\sqsubseteq mediated-relation
 \exists overlaps Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ overlaps particular

part

\sqsubseteq immediate-relation

TransitiveProperty part
 \exists part Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ part particular

part-of

\sqsubseteq immediate-relation-i
TransitiveProperty part-of
 \exists part-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ part-of particular

participant

\sqsubseteq immediate-relation
 \exists participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ participant endurant

participant-in

\sqsubseteq immediate-relation-i
 \exists participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ participant-in perdurant

partly-compresent

\sqsubseteq mediated-relation
 \exists partly-compresent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ partly-compresent particular

physical-location

\sqsubseteq exact-location
 \exists physical-location Thing \sqsubseteq physical-endurant
 $\top \sqsubseteq \forall$ physical-location physical-region

physical-location-of

\sqsubseteq exact-location-of
 \exists physical-location-of Thing \sqsubseteq physical-region
 $\top \sqsubseteq \forall$ physical-location-of physical-endurant

proper-part

\sqsubseteq part
TransitiveProperty proper-part
 \exists proper-part Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ proper-part particular

proper-part-of

\sqsubseteq part-of
TransitiveProperty proper-part-of
 \exists proper-part-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ proper-part-of particular

q-location

\sqsubseteq immediate-relation
 \exists q-location Thing \sqsubseteq quality
 $\top \sqsubseteq \forall$ q-location region

q-location-of

\sqsubseteq immediate-relation-i
 \exists q-location-of Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ q-location-of quality

q-present-at

\sqsubseteq mediated-relation
 \exists q-present-at Thing \sqsubseteq physical-quality
 $\top \sqsubseteq \forall$ q-present-at time-interval

quale-of

\sqsubseteq q-location-of
 \exists quale-of Thing \sqsubseteq quale
 $\top \sqsubseteq \forall$ quale-of quality

r-location

\sqsubseteq immediate-relation
 \exists r-location Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ r-location region

r-location-of

\sqsubseteq immediate-relation-i
 \exists r-location-of Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ r-location-of region

sibling-part

\sqsubseteq mediated-relation
 \exists sibling-part Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ sibling-part particular

spatio-temporal-presence-of

\sqsubseteq exact-location-of
 \exists spatio-temporal-presence-of Thing \sqsubseteq spatio-temporal-region
 $\top \sqsubseteq \forall$ spatio-temporal-presence-of particular

spatio-temporally-present-at

\sqsubseteq exact-location
 \exists spatio-temporally-present-at Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ spatio-temporally-present-at spatio-temporal-region

specific-constant-constituent

\sqsubseteq immediate-relation
 \exists specific-constant-constituent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-constituent particular

specific-constant-constituent-of

\sqsubseteq immediate-relation-i
 \exists specific-constant-constituent-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-constituent-of particular

specific-constant-dependent

\sqsubseteq immediate-relation
 \exists specific-constant-dependent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-dependent particular

specifically-constantly-dependent-on

\sqsubseteq immediate-relation-i
 \exists specifically-constantly-dependent-on Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specifically-constantly-dependent-on particular

strong-connection

\sqsubseteq mediated-relation
 \exists strong-connection Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ strong-connection particular

t-inherent-in

\sqsubseteq inherent-in
 \exists t-inherent-in Thing \sqsubseteq quality
 $\top \sqsubseteq \forall$ t-inherent-in particular

temporary-atomic-part

\sqsubseteq temporary-proper-part
 \exists temporary-atomic-part Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-atomic-part endurant

temporary-atomic-part-of

\sqsubseteq temporary-proper-part-of
 \exists temporary-atomic-part-of Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-atomic-part-of endurant

temporary-part

\sqsubseteq part
 \sqsubseteq partly-compresent
 \exists temporary-part Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-part endurant

temporary-part-of

\sqsubseteq partly-compresent
 \sqsubseteq part-of
 \exists temporary-part-of Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-part-of endurant

temporary-participant

\sqsubseteq participant
 \exists temporary-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ temporary-participant endurant

temporary-participant-in

\sqsubseteq participant-in
 \exists temporary-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-participant-in perdurant

temporary-proper-part

\sqsubseteq temporary-part
 \sqsubseteq proper-part
 \exists temporary-proper-part Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-proper-part endurant

temporary-proper-part-of

\sqsubseteq temporary-part-of

\sqsubseteq proper-part-of
 \exists temporary-proper-part-of Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ temporary-proper-part-of endurant

time-of-q-presence-of

\sqsubseteq mediated-relation-i
 \exists time-of-q-presence-of Thing \sqsubseteq time-interval
 $\top \sqsubseteq \forall$ time-of-q-presence-of physical-quality

total-constant-participant

\sqsubseteq constant-participant
 \exists total-constant-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ total-constant-participant endurant

total-constant-participant-in

\sqsubseteq constant-participant-in
 \exists total-constant-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ total-constant-participant-in perdurant

total-temporary-participant

\sqsubseteq temporary-participant
 \exists total-temporary-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ total-temporary-participant endurant

total-temporary-participant-in

\sqsubseteq temporary-participant-in
 \exists total-temporary-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ total-temporary-participant-in perdurant

weak-connection

\sqsubseteq immediate-relation
 \exists weak-connection Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ weak-connection particular

Data properties

Individuals

Datatypes

string