

API Documentation

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August 28, 2010

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1 Module *temporaldrt*

Temporal logic extension of `nlk.sem.drt` Keeps track of time referents and temporal DRS-conditions.

New function resolving `LOC`PRO(*t*) from a non-finite verb to the location time referent introduced by a finite auxiliary.

Version: 1.0

Date: Tue, 24 Aug 2010

Author: Peter Makarov

1.1 Functions

DrtVariableExpression(*variable*)

This is a factory method that instantiates and returns a subtype of `DrtAbstractVariableExpression` appropriate for the given variable. Extended with `DrtTimeVariableExpression` for time referents.

is_indvar(*expr*)

An individual variable must be a single lowercase character other than 'e', 't', 'n', followed by zero or more digits.

Parameters

`expr: str`

Return Value

`boolean` True if *expr* is of the correct form

is_propername(*expr*)

A proper name is capitalized. We assume that `John(x)` uniquely identifies the bearer of the name John and so, when going from Kamp & Reyle's DRT format into classical FOL logic, we change a condition like that into `John = x`.

Parameters

`expr: str`

Return Value

`boolean` True if *expr* is of the correct form

is_timevar(*expr*)

An time variable must be a single lowercase 't' or 'n' character followed by zero or more digits. Do we need a separate type for utterance time *n*?

Parameters

`expr: str`

Return Value

`boolean` True if *expr* is of the correct form

<code>test()</code>

<code>test_2()</code>

<code>test_3()</code>

<code>test_4()</code>

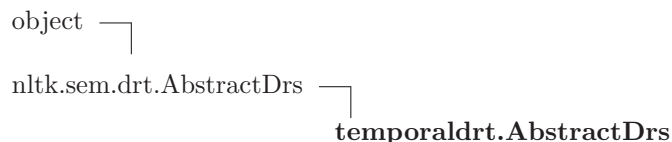
<code>unique_variable(pattern=None, ignore=None)</code>

Return a new, unique variable. param pattern: Variable that is being replaced. The new variable must be the same type. param term: a set of Variables that should not be returned from this function. return: Variable
--

1.2 Variables

Name	Description
TIME_TYPE	Value: i
__package__	Value: None

1.3 Class *AbstractDrs*



Known Subclasses: *temporaldrt.DrtBooleanExpression*, *temporaldrt.DRS*, *temporaldrt.DrtAbstractVariableExpression*, *temporaldrt.DrtApplicationExpression*, *temporaldrt.DrtEqualityExpression*, *temporaldrt.DrtLambdaExpression*, *temporaldrt.DrtNegatedExpression*, *temporaldrt.PossibleAntecedents*

This is the base abstract Temporal DRT Expression from which every Temporal DRT Expression extends.

1.3.1 Methods

<code>__add__(self, other)</code>

Overrides: <i>nltk.sem.drt.AbstractDrs.__add__</i>
--

<code>__gt__(self, other)</code>

Overrides: <i>nltk.sem.drt.AbstractDrs.__gt__</i>

<code>__lt__(self, other)</code>

Overrides: <i>nltk.sem.drt.AbstractDrs.__lt__</i>

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self, other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self, other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self, first, second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self, variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

normalize(*self*)

Rename auto-generated unique variables

resolve(*self, trail=[] , output=[]*)

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Inherited from nltk.sem.drt.AbstractDrs**__and__**(), **draw**(), **get_refs**(), **is_pronoun_function**(), **resolve_anaphora**(), **tp_equals**(), **typecheck**()***Inherited from object*****__delattr__**(), **__format__**(), **__getattr__**(), **__hash__**(), **__init__**(), **__new__**(), **__reduce__**(), **__reduce_ex__**(), **__repr__**(), **__setattr__**(), **__sizeof__**(), **__str__**(), **__subclasshook__**()**1.3.2 Properties**

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.4 Class ConcatenationDRS



DRS of the form '(DRS + DRS)'

1.4.1 Methods

replace(*self*, *variable*, *expression*, *replace_bound=False*)

Replace all instances of variable *v* with expression *E* in *self*, where *v* is free in *self*.

Parameters

variable: **Variable** The variable to replace
expression: **Expression** The expression with which to replace it
replace_bound: **boolean** Should bound variables be replaced?

Overrides: nltk.sem.logic.Expression.replace

simplify(*self*)

Return Value

beta-converted version of this expression

Overrides: nltk.sem.logic.Expression.simplify exit(inherited documentation)

Inherited from *nltk.sem.drt.ConcatenationDRS*

`__eq__()`, `fol()`, `getOp()`, `get_refs()`

Inherited from *nltk.sem.drt.AbstractDrs*

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from *nltk.sem.logic.BinaryExpression*

`__init__()`, `findtype()`, `str()`, `visit()`

Inherited from *nltk.sem.logic.Expression*

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `substitute_bindings()`, `variables()`

Inherited from *object*

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from *temporaldrt.DrtBooleanExpression*(Section 1.8)

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: temporaldrt.AbstractDrs.resolve extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

__add__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__add__

__gt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__gt__

__lt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__lt__

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

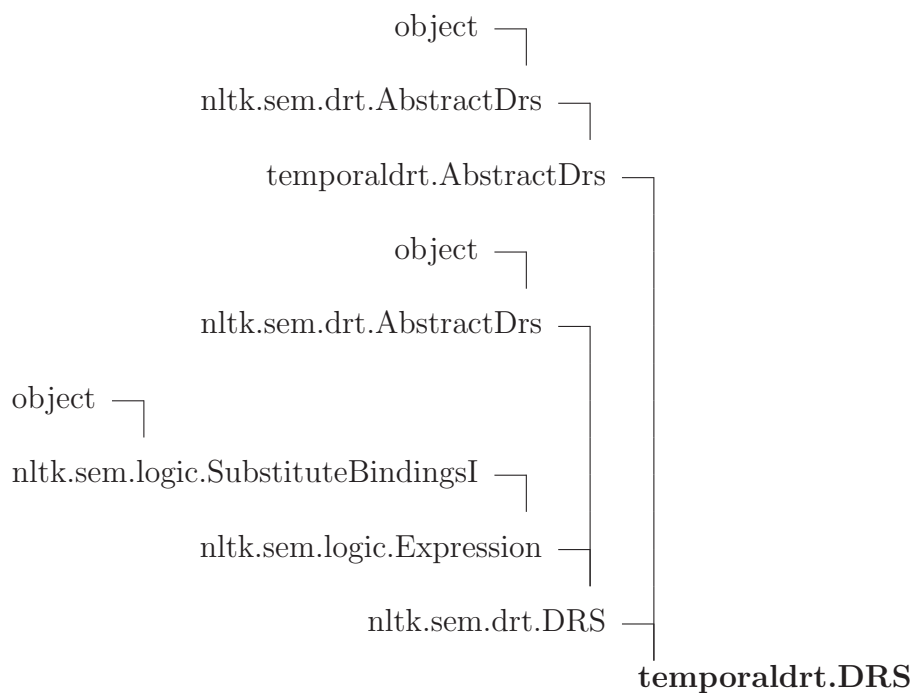
normalize(*self*)

Rename auto-generated unique variables

1.4.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.5 Class DRS



A Temporal Discourse Representation Structure.

1.5.1 Methods

replace(*self*, *variable*, *expression*, *replace_bound=False*)

Replace all instances of variable *v* with expression *E* in *self*, where *v* is free in *self*.

Parameters

variable: Variable The variable to replace
expression: Expression The expression with which to replace it
replace_bound: boolean Should bound variables be replaced?

Overrides: nltk.sem.logic.Expression.replace

resolve(*self*, *trail=[]*, *output=[]*)

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(*t*), for which purpose the PossibleAntecedents class is not used.

Overrides: temporaldrt.AbstractDrs.resolve extit(inherited documentation)

simplify(*self*)

Return Value

beta-converted version of this expression

Overrides: nltk.sem.logic.Expression.simplify extit(inherited documentation)

Inherited from nltk.sem.drt.DRS

`__eq__()`, `__init__()`, `fol()`, `free()`, `get_refs()`, `str()`, `variables()`, `visit()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `findtype()`, `negate()`, `substitute_bindings()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattribute__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.AbstractDrs(Section 1.3)

__add__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__add__

__gt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__gt__

__lt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__lt__

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

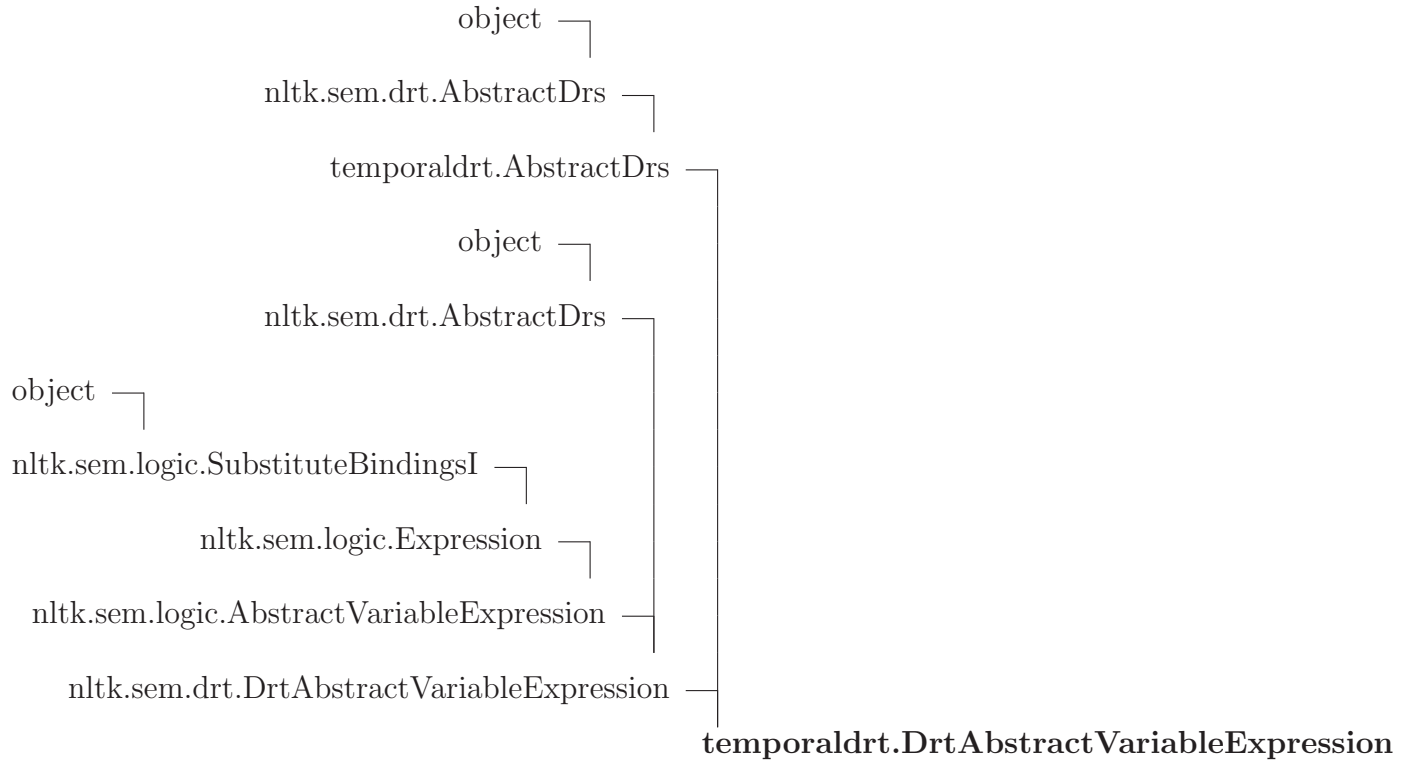
normalize(*self*)

Rename auto-generated unique variables

1.5.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.6 Class *DrtAbstractVariableExpression*



Known Subclasses: *temporaldrt.DrtConstantExpression*, *temporaldrt.DrtIndividualVariableExpression*, *temporaldrt.DrtFunctionVariableExpression*

1.6.1 Methods

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *nltk.sem.drt.DrtAbstractVariableExpression*

`fol()`, `get_refs()`

Inherited from *nltk.sem.drt.AbstractDrs*

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

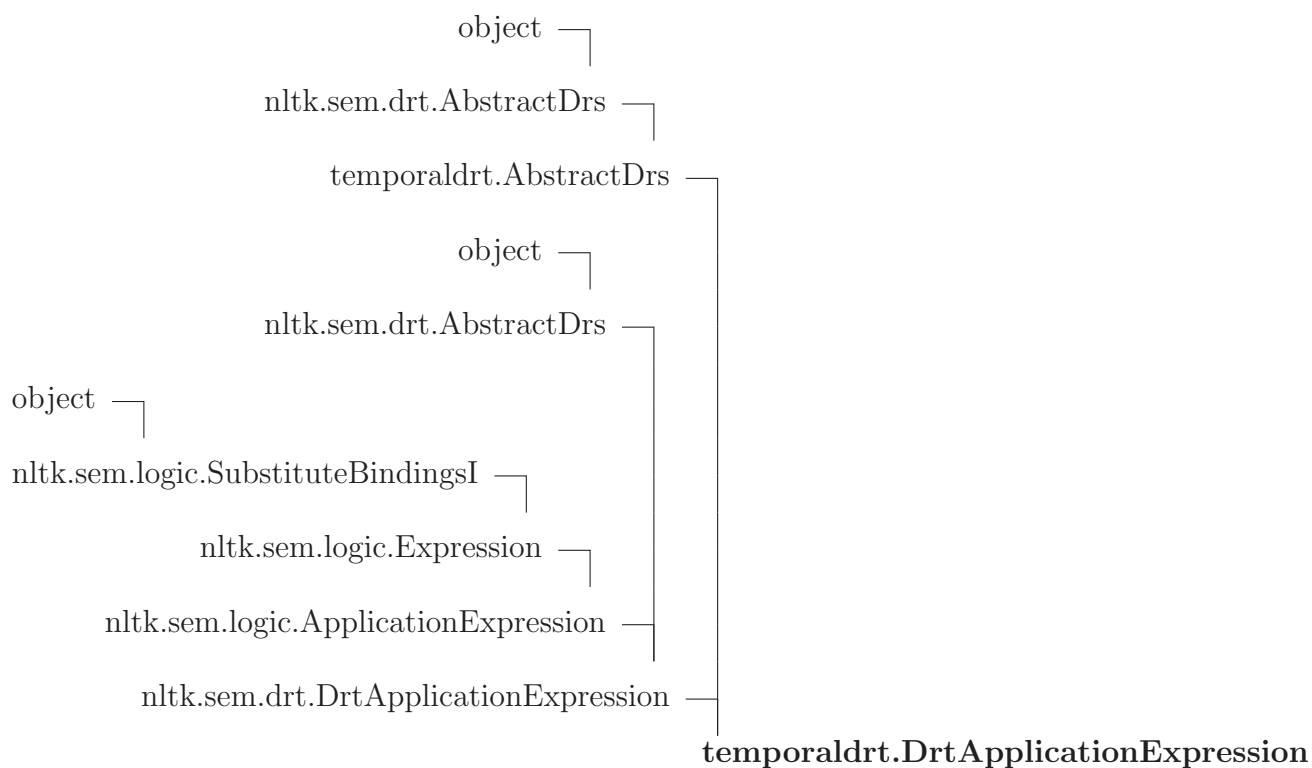
Inherited from `nltk.sem.logic.AbstractVariableExpression``__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`***Inherited from `nltk.sem.logic.Expression`***`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `substitute_bindings()`, `variables()`***Inherited from `object`***`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`***Inherited from `temporaldrt.AbstractDrs` (Section 1.3)***`__add__(self, other)`Overrides: `nltk.sem.drt.AbstractDrs.__add__``__gt__(self, other)`Overrides: `nltk.sem.drt.AbstractDrs.__gt__``__lt__(self, other)`Overrides: `nltk.sem.drt.AbstractDrs.__lt__``__neg__(self)`Overrides: `nltk.sem.drt.AbstractDrs.__neg__``__or__(self, other)`Overrides: `nltk.sem.drt.AbstractDrs.__or__``applyto(self, other)`Overrides: `nltk.sem.drt.AbstractDrs.applyto``make_EqualityExpression(self, first, second)`Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression``make_VariableExpression(self, variable)`Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression``normalize(self)`

Rename auto-generated unique variables

1.6.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.7 Class *DrtApplicationExpression*



Known Subclasses: *temporaldrt.DrtTimeApplicationExpression*, *temporaldrt.DrtPossiblePresuppAccom*, *temporaldrt.DrtPresuppositionApplicationExpression*, *temporaldrt.DrtProperNameApplicationExpression*

1.7.1 Methods

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *nltk.sem.drt.DrtApplicationExpression*

fol(), *get_refs*()

Inherited from *nltk.sem.drt.AbstractDrs*

__and__(), *draw*(), *is_pronoun_function*(), *resolve_anaphora*(), *tp_equals*(), *typecheck*()

Inherited from *nltk.sem.logic.ApplicationExpression*

__eq__(), *__init__*(), *findtype*(), *free*(), *simplify*(), *str*(), *uncurry*(), *visit*()

Inherited from *nltk.sem.logic.Expression*

__call__(), *__hash__*(), *__neq__*(), *__repr__*(), *__str__*(), *negate*(), *replace*(), *substitute_bindings*(), *variables*()

Inherited from *object*

__delattr__(), *__format__*(), *__getattr__*(), *__new__*(), *__reduce__*(), *__reduce_ex__*(), *__setattr__*(), *__sizeof__*(), *__subclasshook__*()

Inherited from *temporaldrt.AbstractDrs*(Section 1.3)

__add__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__add__*

__gt__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__gt__*

__lt__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__lt__*

__neg__(*self*)

Overrides: *nltk.sem.drt.AbstractDrs.__neg__*

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

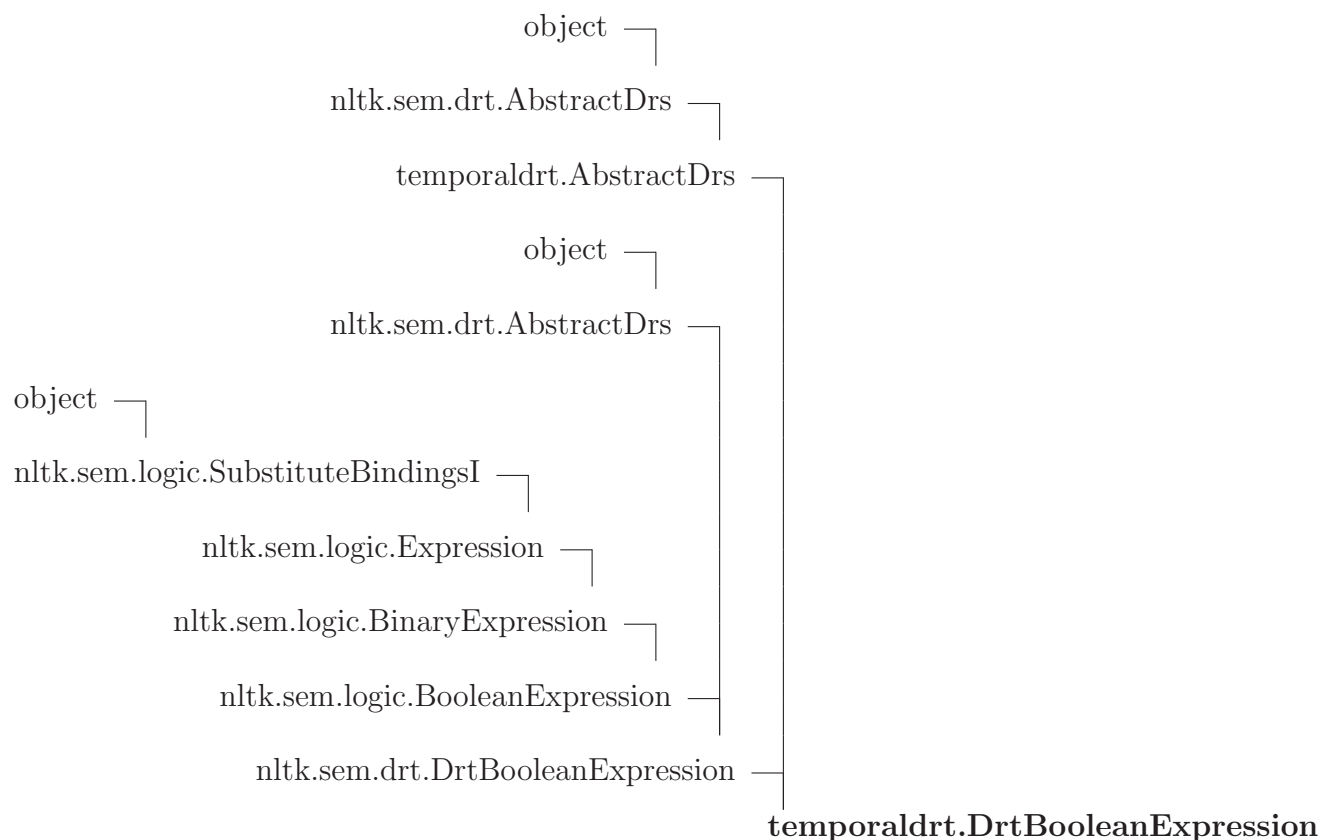
normalize(*self*)

Rename auto-generated unique variables

1.7.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from nltk.sem.logic.ApplicationExpression</i>	
args	
<i>Inherited from object</i>	
__class__	

1.8 Class DrtBooleanExpression



Known Subclasses: temporaldrt.ConcatenationDRS, temporaldrt.DrtIffExpression, temporaldrt.DrtImpExpression, temporaldrt.DrtOrExpression

1.8.1 Methods

```
resolve(self, trail=[], output=[])
```

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve exitit`(inherited documentation)

Inherited from nltk.sem.drt.DrtBooleanExpression

```
get_refs()
```

Inherited from nltk.sem.drt.AbstractDrs

`--and--()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from *nltk.sem.logic.BinaryExpression*

`--eq--()`, `--init--()`, `findtype()`, `str()`, `visit()`

Inherited from *nltk.sem.logic.Expression*

`--call--()`, `--hash--()`, `--neq--()`, `--repr--()`, `--str--()`, `free()`, `negate()`, `replace()`, `simplify()`, `substitute_bindings()`, `variables()`

Inherited from *object*

`--delattr--()`, `--format--()`, `--getattr--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--setattr--()`, `--sizeof--()`, `--subclasshook--()`

Inherited from *temporaldrt.AbstractDrs* (Section 1.3)

`--add--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`--gt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`--lt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`--neg--(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`--or--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

normalize(<i>self</i>)
Rename auto-generated unique variables

1.8.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

Known Subclasses: *temporaldrt.DrtProperNameExpression*

1.9.1 Methods

Inherited from nltk.sem.drt.DrtAbstractVariableExpression

`fol()`, `get_refs()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.ConstantExpression

`free()`

Inherited from nltk.sem.logic.AbstractVariableExpression

`__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `negate()`, `substitute_bindings()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPR(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.__add__*

`__gt__(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.__gt__*

`--lt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

`--neg--(self)`

Overrides: `nltk.sem.drt.AbstractDrs.--neg--`

`--or--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.--or--`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

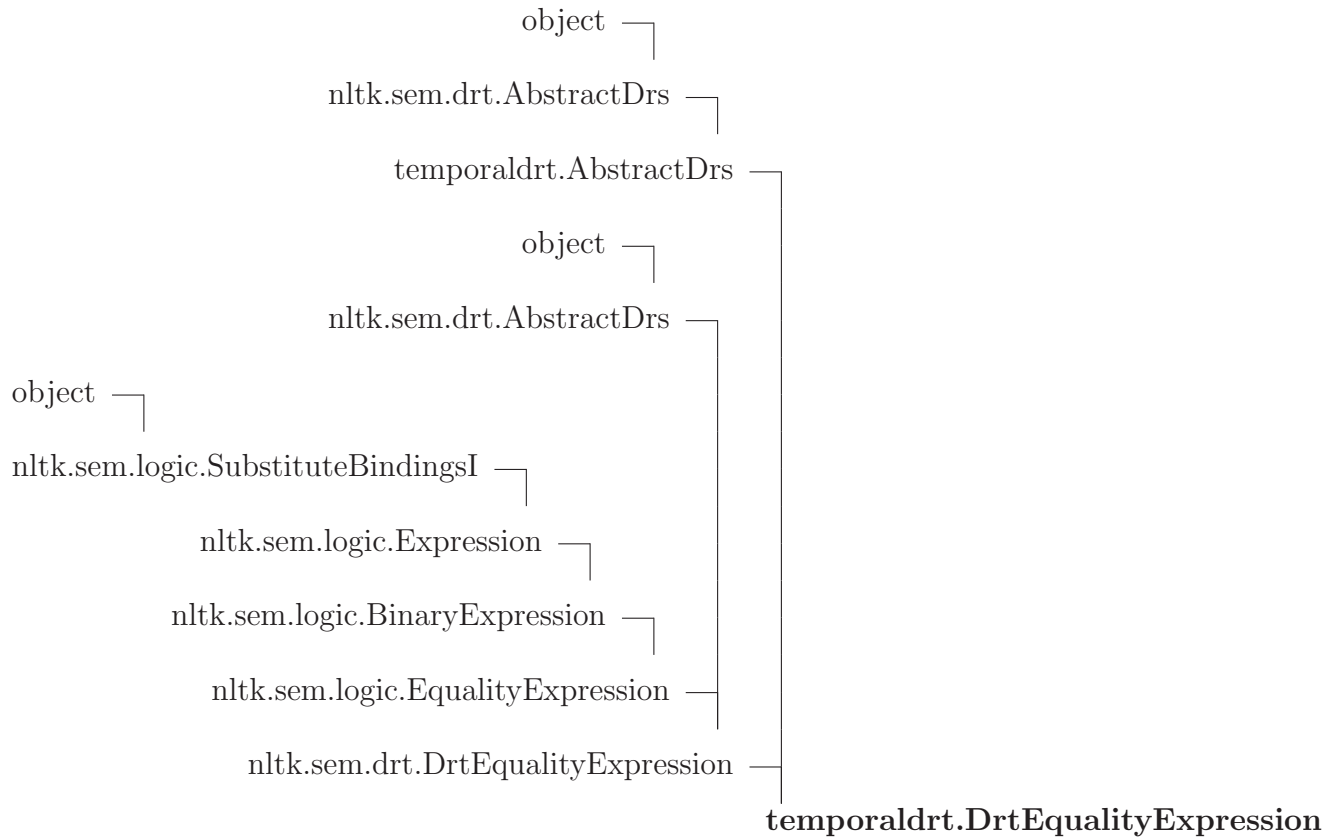
`normalize(self)`

Rename auto-generated unique variables

1.9.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from <code>object</code></i>	
<code>--class--</code>	

1.10 Class *DrtEqualityExpression*



1.10.1 Methods

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *nltk.sem.drt.DrtEqualityExpression*

fol(), *get_refs*()

Inherited from *nltk.sem.drt.AbstractDrs*

and(), *draw*(), *is_pronoun_function*(), *resolve_anaphora*(), *tp_equals*(), *typecheck*()

Inherited from *nltk.sem.logic.EqualityExpression*

`getOp()`

Inherited from *nltk.sem.logic.BinaryExpression*

`__eq__()`, `__init__()`, `findtype()`, `str()`, `visit()`

Inherited from *nltk.sem.logic.Expression*

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `replace()`, `simplify()`, `substitute_bindings()`, `variables()`

Inherited from *object*

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from *temporaldrt.AbstractDrs*(Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`__lt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`__neg__(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`__or__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

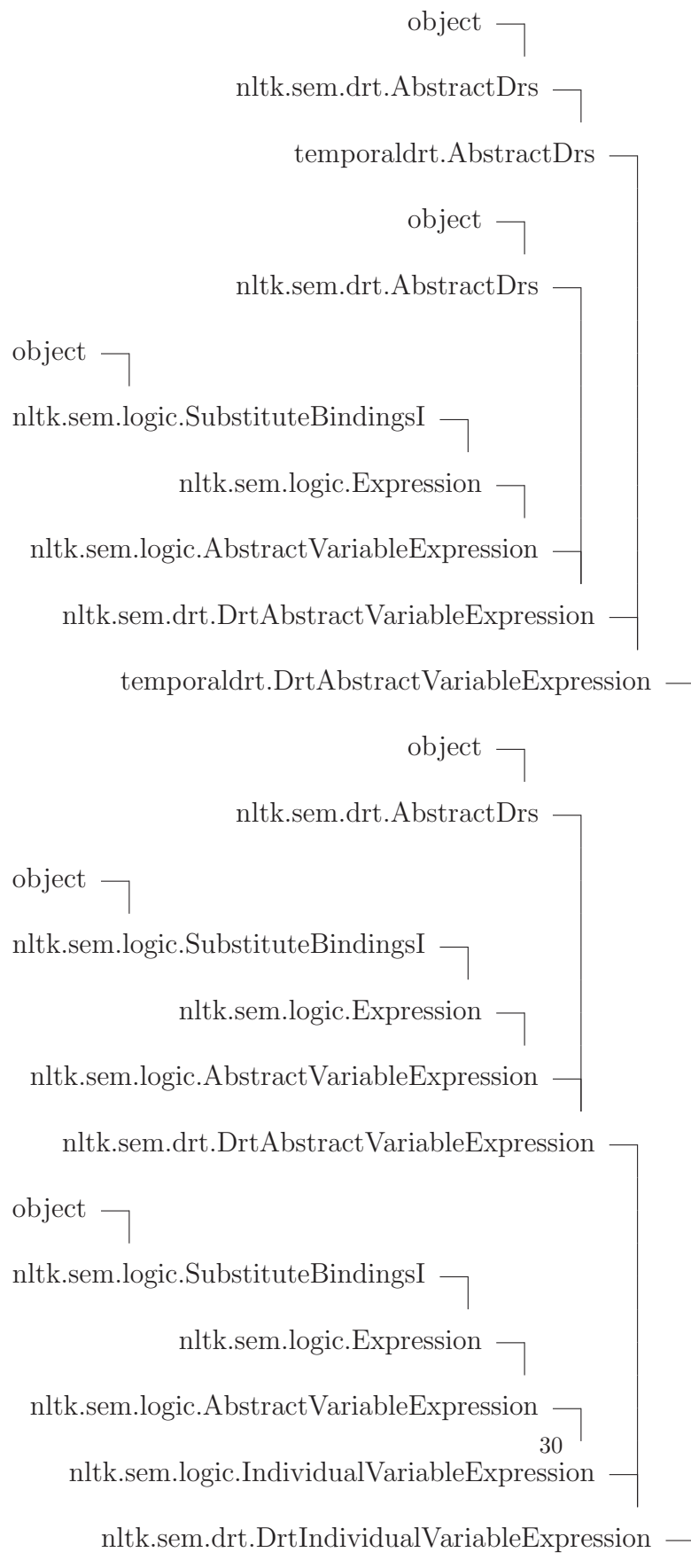
Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

normalize(<i>self</i>)
Rename auto-generated unique variables

1.10.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.11 Class DrtEventVariableExpression



1.11.1 Methods***Inherited from nltk.sem.drt.DrtAbstractVariableExpression***`fol(), get_refs()`***Inherited from nltk.sem.drt.AbstractDrs***`--and--(), draw(), is_pronoun_function(), resolve_anaphora(), tp_equals(), typecheck()`***Inherited from nltk.sem.logic.AbstractVariableExpression***`--eq--(), --init--(), findtype(), replace(), simplify(), str(), visit()`***Inherited from nltk.sem.logic.Expression***`--call--(), --hash--(), --neq--(), --repr--(), --str--(), free(), negate(), substitute_bindings(), variables()`***Inherited from object***`--delattr--(), --format--(), --getattribute--(), --new--(), --reduce--(), --reduce_ex--(), --setattr--(), --sizeof--(), --subclasshook--()`***Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)*****`resolve(self, trail=[], output=[])`**

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)***Inherited from temporaldrt.AbstractDrs(Section 1.3)*****`--add--(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.--add--`**`--gt--(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.--gt--`**`--lt--(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

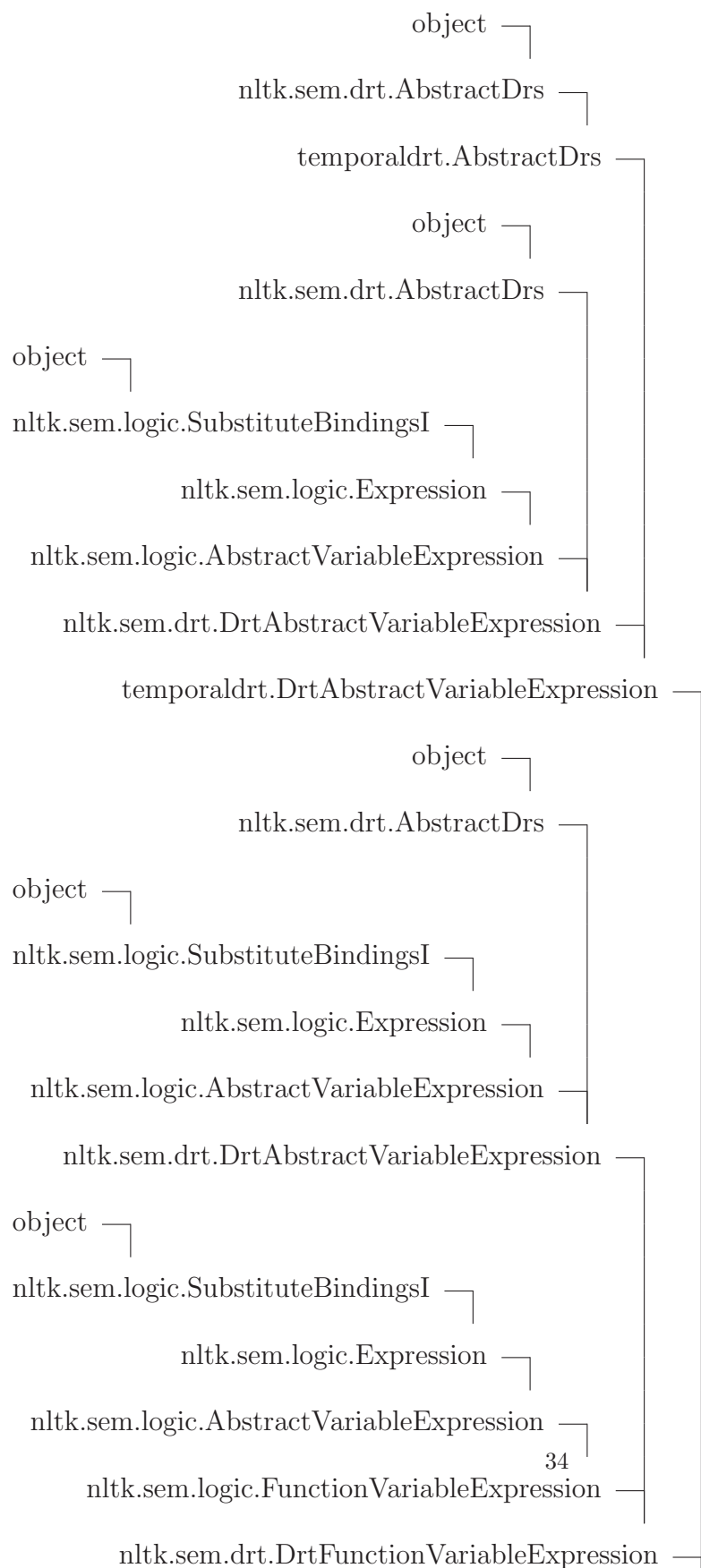
Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

normalize(*self*)

Rename auto-generated unique variables

1.11.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.12 Class **DrtFunctionVariableExpression**

1.12.1 Methods***Inherited from nltk.sem.drt.DrtAbstractVariableExpression***`fol(), get_refs()`***Inherited from nltk.sem.drt.AbstractDrs***`__and__(), draw(), is_pronoun_function(), resolve_anaphora(), tp_equals(), typecheck()`***Inherited from nltk.sem.logic.FunctionVariableExpression***`free()`***Inherited from nltk.sem.logic.AbstractVariableExpression***`__eq__(), __init__(), findtype(), replace(), simplify(), str(), visit()`***Inherited from nltk.sem.logic.Expression***`__call__(), __hash__(), __neq__(), __repr__(), __str__(), negate(), substitute_bindings(), variables()`***Inherited from object***`__delattr__(), __format__(), __getattribute__(), __new__(), __reduce__(), __reduce_ex__(), __setattr__(), __sizeof__(), __subclasshook__()`***Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)*****`resolve(self, trail=[], output=[])`**

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)***Inherited from temporaldrt.AbstractDrs(Section 1.3)*****`__add__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__add__`**`__gt__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__gt__`**`__lt__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

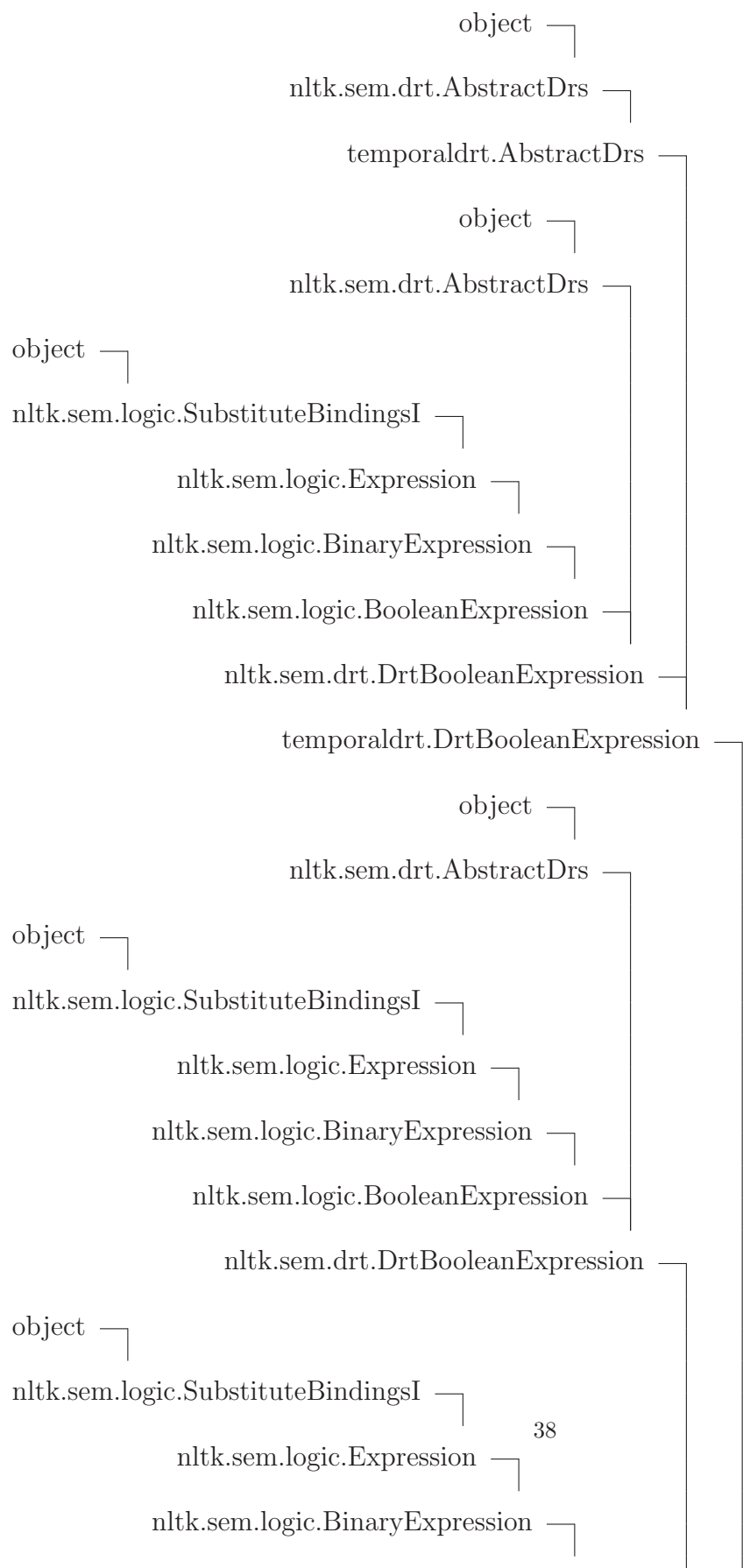
Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

normalize(*self*)

Rename auto-generated unique variables

1.12.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.13 Class **DrtIffExpression**

1.13.1 Methods***Inherited from nltk.sem.drt.DrtIffExpression***`fol()`***Inherited from nltk.sem.drt.DrtBooleanExpression***`get_refs()`***Inherited from nltk.sem.drt.AbstractDrs***`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`***Inherited from nltk.sem.logic.IffExpression***`getOp()`***Inherited from nltk.sem.logic.BinaryExpression***`__eq__()`, `__init__()`, `findtype()`, `str()`, `visit()`***Inherited from nltk.sem.logic.Expression***`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `replace()`, `simplify()`, `substitute_bindings()`, `variables()`***Inherited from object***`__delattr__()`, `__format__()`, `__getattribute__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`***Inherited from temporaldrt.DrtBooleanExpression(Section 1.8)*****`resolve(self, trail=[], output=[])`**

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)***Inherited from temporaldrt.AbstractDrs(Section 1.3)*****`__add__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__add__`**`__gt__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`--lt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

`--neg--(self)`

Overrides: `nltk.sem.drt.AbstractDrs.--neg--`

`--or--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.--or--`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

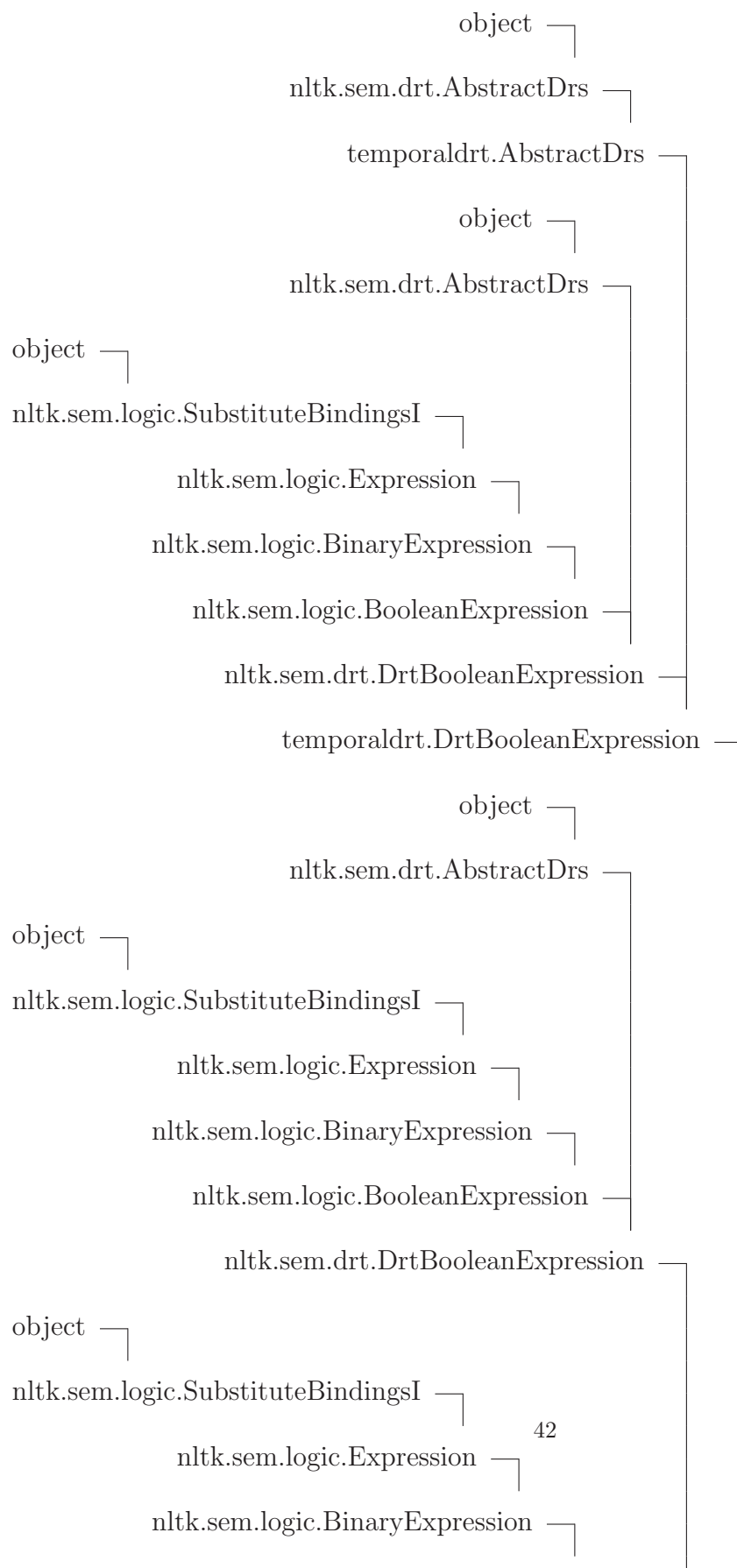
Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

`normalize(self)`

Rename auto-generated unique variables

1.13.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from <code>object</code></i>	
<code>--class--</code>	

1.14 Class **DrtImpExpression**

1.14.1 Methods

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *nltk.sem.drt.DrtImpExpression*

fol()

Inherited from *nltk.sem.drt.DrtBooleanExpression*

get_refs()

Inherited from *nltk.sem.drt.AbstractDrs*

__and__(), *draw*(), *is_pronoun_function*(), *resolve_anaphora*(), *tp_equals*(), *typecheck*()

Inherited from *nltk.sem.logic.ImpExpression*

getOp()

Inherited from *nltk.sem.logic.BinaryExpression*

__eq__(), *__init__*(), *findtype*(), *str*(), *visit*()

Inherited from *nltk.sem.logic.Expression*

__call__(), *__hash__*(), *__neq__*(), *__repr__*(), *__str__*(), *free*(), *negate*(), *replace*(), *simplify*(), *substitute_bindings*(), *variables*()

Inherited from *object*

__delattr__(), *__format__*(), *__getattr__*(), *__new__*(), *__reduce__*(), *__reduce_ex__*(), *__setattr__*(), *__sizeof__*(), *__subclasshook__*()

Inherited from *temporaldrt.AbstractDrs*(Section 1.3)

__add__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__add__*

__gt__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__gt__*

`--lt--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

`--neg--`(*self*)

Overrides: `nltk.sem.drt.AbstractDrs.--neg--`

`--or--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--or--`

`applyto`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression`(*self*, *first*, *second*)

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression`(*self*, *variable*)

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

`normalize`(*self*)

Rename auto-generated unique variables

1.14.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from object</i>	
<code>--class--</code>	

1.15 Class DrtIndividualVariableExpression



Known Subclasses: *temporaldrt.DrtEventVariableExpression*, *temporaldrt.DrtTimeVariableExpression*

1.15.1 Methods

Inherited from nltk.sem.drt.DrtAbstractVariableExpression

`fol()`, `get_refs()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.AbstractVariableExpression

`__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `substitute_bindings()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.__add__*

`__gt__(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.__gt__*

`__lt__(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.__lt__*

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

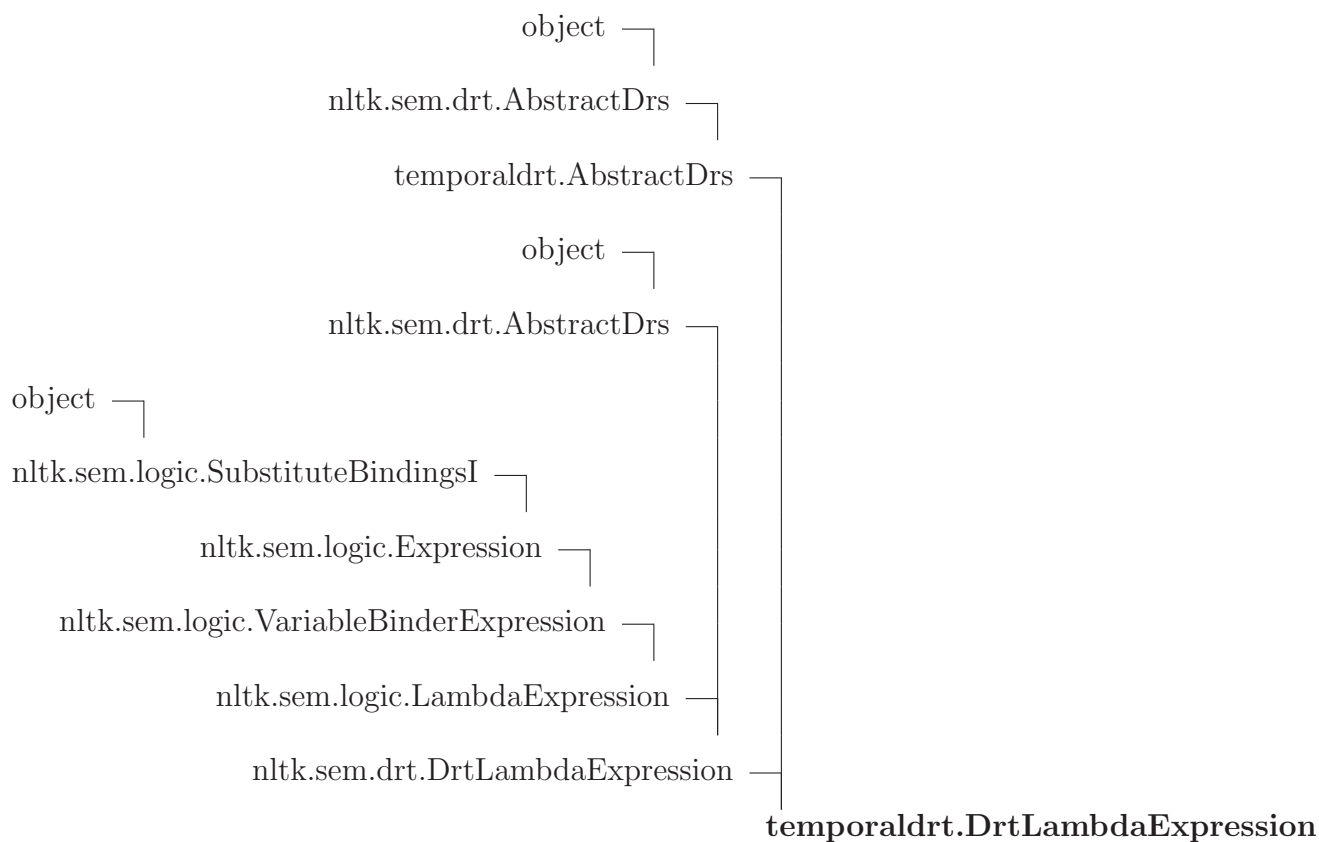
normalize(*self*)

Rename auto-generated unique variables

1.15.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.16 Class *DrtLambdaExpression*



1.16.1 Methods

`alpha_convert(self, newvar)`

Rename all occurrences of the variable introduced by this variable binder in the expression to `@newvar`.

Parameters

`newvar`: *Variable*, for the new variable

Overrides: *nltk.sem.logic.VariableBinderExpression.alpha_convert*

replace(*self*, *variable*, *expression*, *replace_bound=False*)

Replace every instance of 'variable' with 'expression'

Parameters

variable: Variable The variable to replace
expression: Expression The expression with which to replace it
replace_bound: boolean Should bound variables be replaced?

Overrides: *nltk.sem.logic.Expression.replace*

See Also: *Expression.replace()*

resolve(*self*, *trail=[]*, *output=[]*)

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from nltk.sem.drt.DrtLambdaExpression

fol()

Inherited from nltk.sem.drt.AbstractDrs

__and__(), *draw()*, *get_refs()*, *is_pronoun_function()*, *resolve_anaphora()*, *tp_equals()*, *typecheck()*

Inherited from nltk.sem.logic.LambdaExpression

str()

Inherited from nltk.sem.logic.VariableBinderExpression

__eq__(), *__init__()*, *findtype()*, *free()*, *variables()*, *visit()*

Inherited from nltk.sem.logic.Expression

__call__(), *__hash__()*, *__neq__()*, *__repr__()*, *__str__()*, *negate()*, *simplify()*, *substitute_bindings()*

Inherited from object

__delattr__(), *__format__()*, *__getattr__()*, *__new__()*, *__reduce__()*, *__reduce_ex__()*, *__setattr__()*, *__sizeof__()*, *__subclasshook__()*

Inherited from temporaldrt.AbstractDrs(Section 1.3)

__add__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__add__

__gt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__gt__

__lt__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__lt__

__neg__(*self*)

Overrides: nltk.sem.drt.AbstractDrs.__neg__

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

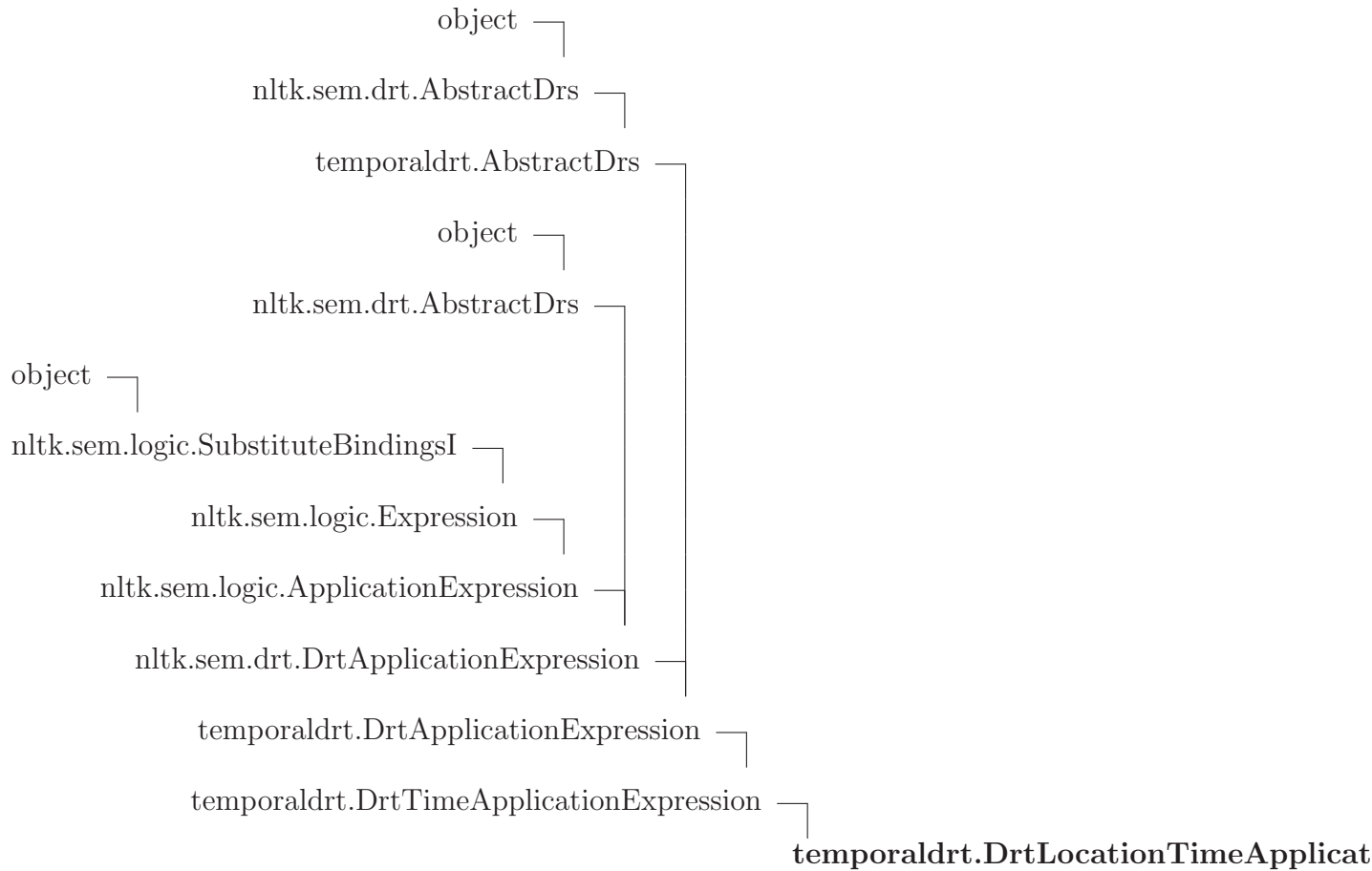
normalize(*self*)

Rename auto-generated unique variables

1.16.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.17 Class *DrtLocationTimeApplicationExpression*



1.17.1 Methods

<code>resolve(self, trail=[], output=[])</code>
--

Reverses trail list

Overrides: <i>temporaldrt.AbstractDrs.resolve</i>

Inherited from nltk.sem.drt.DrtApplicationExpression

`fol()`, `get_refs()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.ApplicationExpression

`__eq__()`, `__init__()`, `findtype()`, `free()`, `simplify()`, `str()`, `uncurry()`, `visit()`

Inherited from `nltk.sem.logic.Expression`

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `negate()`, `replace()`, `substitute_bindings()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from `temporaldrt.AbstractDrs` (Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`__lt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`__neg__(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`__or__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

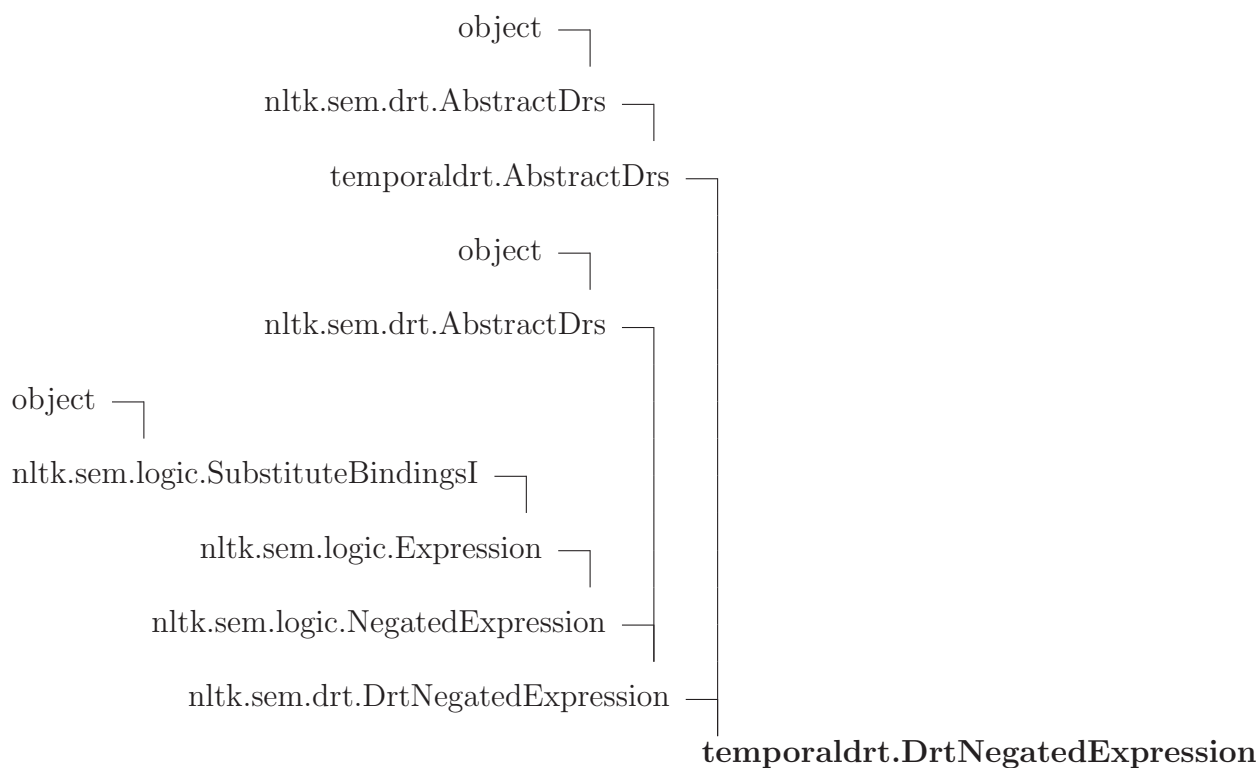
Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

`normalize(self)`

Rename auto-generated unique variables

1.17.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i> type	
<i>Inherited from nltk.sem.logic.ApplicationExpression</i> args	
<i>Inherited from object</i> __class__	

1.18 Class DrtNegatedExpression

1.18.1 Methods

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *nltk.sem.drt.DrtNegatedExpression*

fol(), *get_refs*()

Inherited from *nltk.sem.drt.AbstractDrs*

__and__(), *draw*(), *is_pronoun_function*(), *resolve_anaphora*(), *tp_equals*(), *typecheck*()

Inherited from *nltk.sem.logic.NegatedExpression*

__eq__(), *__init__*(), *findtype*(), *negate*(), *str*(), *visit*()

Inherited from *nltk.sem.logic.Expression*

__call__(), *__hash__*(), *__neq__*(), *__repr__*(), *__str__*(), *free*(), *replace*(), *simplify*(), *substitute_bindings*(), *variables*()

Inherited from *object*

__delattr__(), *__format__*(), *__getattr__*(), *__new__*(), *__reduce__*(), *__reduce_ex__*(), *__setattr__*(), *__sizeof__*(), *__subclasshook__*()

Inherited from *temporaldrt.AbstractDrs*(Section 1.3)

__add__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__add__*

__gt__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__gt__*

__lt__(*self*, *other*)

Overrides: *nltk.sem.drt.AbstractDrs.__lt__*

__neg__(*self*)

Overrides: *nltk.sem.drt.AbstractDrs.__neg__*

__or__(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.__or__

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

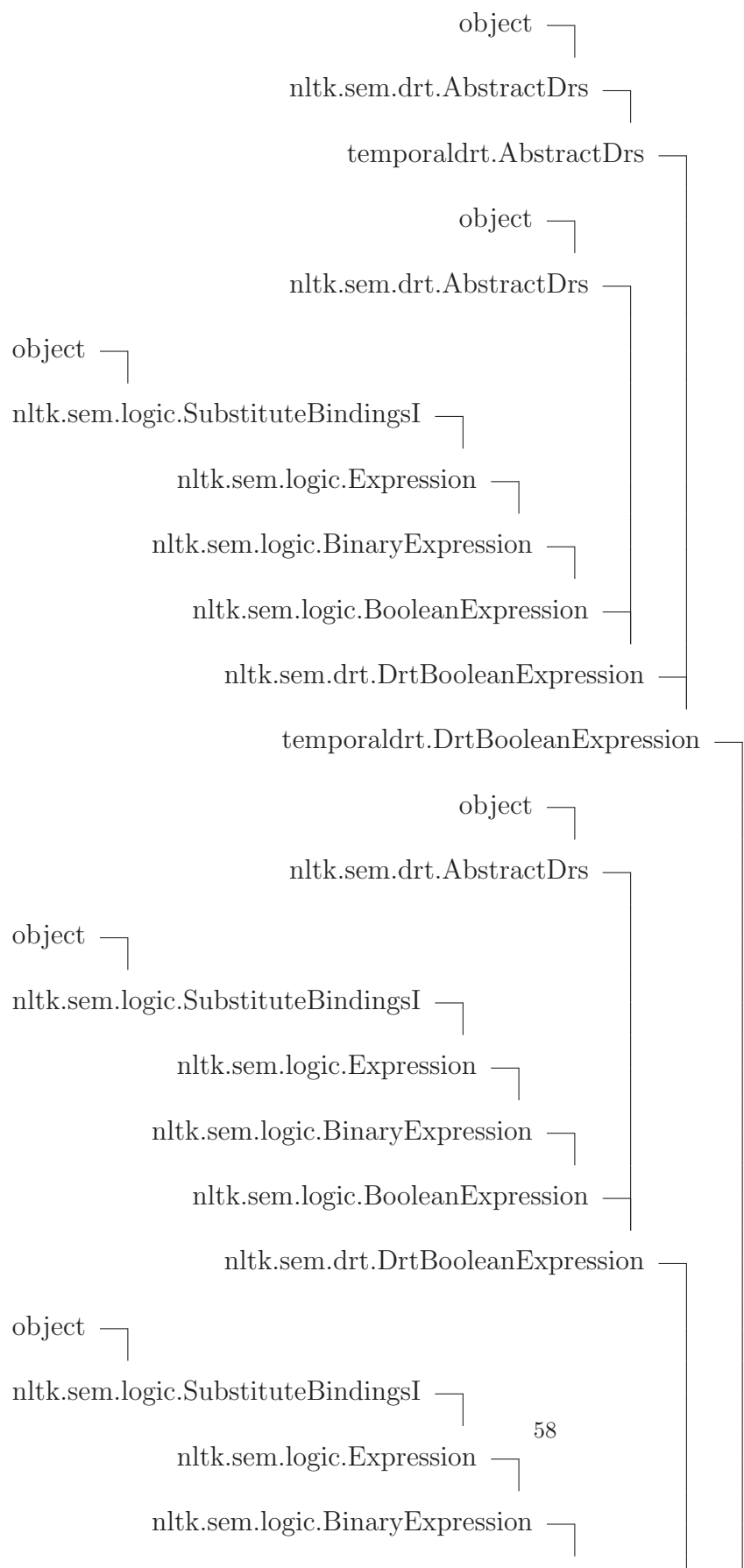
Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

normalize(*self*)

Rename auto-generated unique variables

1.18.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.19 Class **DrtOrExpression**

1.19.1 Methods***Inherited from nltk.sem.drt.DrtOrExpression***`fol()`***Inherited from nltk.sem.drt.DrtBooleanExpression***`get_refs()`***Inherited from nltk.sem.drt.AbstractDrs***`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`***Inherited from nltk.sem.logic.OrExpression***`getOp()`***Inherited from nltk.sem.logic.BinaryExpression***`__eq__()`, `__init__()`, `findtype()`, `str()`, `visit()`***Inherited from nltk.sem.logic.Expression***`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `replace()`, `simplify()`, `substitute_bindings()`, `variables()`***Inherited from object***`__delattr__()`, `__format__()`, `__getattribute__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`***Inherited from temporaldrt.DrtBooleanExpression(Section 1.8)*****`resolve(self, trail=[], output=[])`**

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)***Inherited from temporaldrt.AbstractDrs(Section 1.3)*****`__add__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__add__`**`__gt__(self, other)`**Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

```
__lt__(self, other)
```

Overrides: nltk.sem.drt.AbstractDrs.__lt__

```
__neg__(self)
```

Overrides: nltk.sem.drt.AbstractDrs.__neg__

```
__or__(self, other)
```

Overrides: nltk.sem.drt.AbstractDrs.__or__

```
applyto(self, other)
```

Overrides: nltk.sem.drt.AbstractDrs.applyto

```
make_EqualityExpression(self, first, second)
```

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

```
make_VariableExpression(self, variable)
```

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

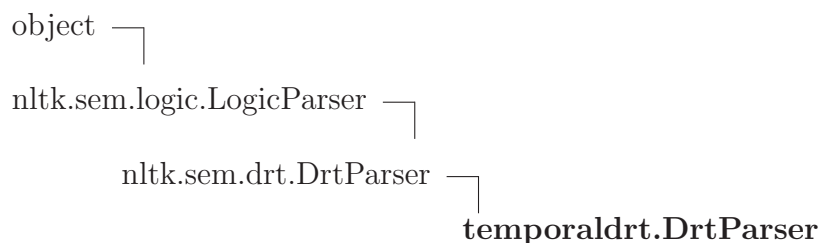
```
normalize(self)
```

Rename auto-generated unique variables

1.19.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.20 Class *DrtParser*



DrtParser producing conditions and referents for temporal logic

1.20.1 Methods

get_BooleanExpression_factory(*self*, *tok*)

This method serves as a hook for other logic parsers that have different boolean operators

Overrides: `nltk.sem.logic.LogicParser.get_BooleanExpression_factory`

handle_DRS(*self*, *tok*, *context*)

Overrides: `nltk.sem.drt.DrtParser.handle_DRS`

make_ApplicationExpression(*self*, *function*, *argument*)

If statement added returning `DrtTimeApplicationExpression`

Overrides: `nltk.sem.logic.LogicParser.make_ApplicationExpression`

make_EqualityExpression(*self*, *first*, *second*)

This method serves as a hook for other logic parsers that have different equality expression classes

Overrides: `nltk.sem.logic.LogicParser.make_EqualityExpression`

make_LambdaExpression(*self*, *variables*, *term*)

Overrides: `nltk.sem.logic.LogicParser.make_LambdaExpression`

make_NegatedExpression(*self*, *expression*)

Overrides: `nltk.sem.logic.LogicParser.make_NegatedExpression`

make_VariableExpression(*self*, *name*)

Overrides: `nltk.sem.logic.LogicParser.make_VariableExpression`

Inherited from *nltk.sem.drt.DrtParser*

`__init__()`, `get_all_symbols()`, `handle()`, `isvariable()`, `make_BooleanExpression()`

Inherited from *nltk.sem.logic.LogicParser*

`__repr__()`, `assertNextToken()`, `assertToken()`, `attempt_ApplicationExpression()`, `attempt_BooleanExpression()`, `attempt_EqualityExpression()`, `attempt_adjuncts()`, `get_QuantifiedExpression()`, `get_next_token_variable()`, `handle_lambda()`, `handle_negation()`, `handle_open()`, `handle_quant()`, `handle_variable()`, `has_priority()`, `inRange()`, `make_QuantifiedExpression()`,

`parse()`, `parse.Expression()`, `process()`, `process_quoted_token()`, `token()`

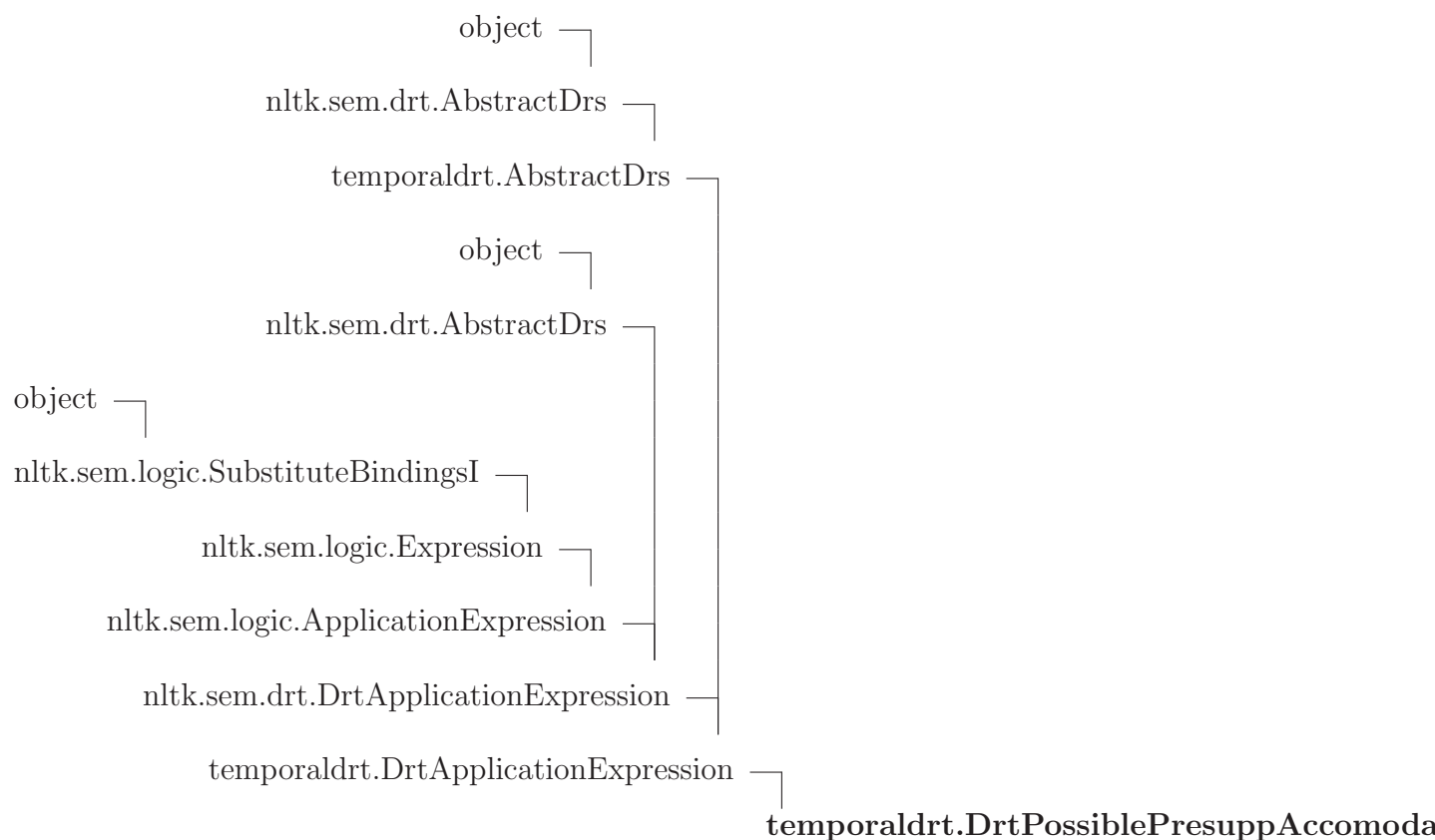
Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

1.20.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

1.21 Class *DrtPossiblePresuppAccommodationExpression*



1.21.1 Methods

Inherited from nltk.sem.drt.DrtApplicationExpression

`fol()`, `get_refs()`

Inherited from *nltk.sem.drt.AbstractDrs*

`--and--()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from *nltk.sem.logic.ApplicationExpression*

`--eq--()`, `--init--()`, `findtype()`, `free()`, `simplify()`, `str()`, `uncurry()`, `visit()`

Inherited from *nltk.sem.logic.Expression*

`--call--()`, `--hash--()`, `--neq--()`, `--repr--()`, `--str--()`, `negate()`, `replace()`, `substitute_bindings()`, `variables()`

Inherited from *object*

`--delattr--()`, `--format--()`, `--getattr--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--setattr--()`, `--sizeof--()`, `--subclasshook--()`

Inherited from *temporaldrt.DrtApplicationExpression*(Section 1.7)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from *temporaldrt.AbstractDrs*(Section 1.3)

`--add--(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.--add--*

`--gt--(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.--gt--*

`--lt--(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.--lt--*

`--neg--(self)`

Overrides: *nltk.sem.drt.AbstractDrs.--neg--*

`--or--(self, other)`

Overrides: *nltk.sem.drt.AbstractDrs.--or--*

applyto(*self*, *other*)

Overrides: nltk.sem.drt.AbstractDrs.applyto

make_EqualityExpression(*self*, *first*, *second*)

Overrides: nltk.sem.drt.AbstractDrs.make_EqualityExpression

make_VariableExpression(*self*, *variable*)

Overrides: nltk.sem.drt.AbstractDrs.make_VariableExpression

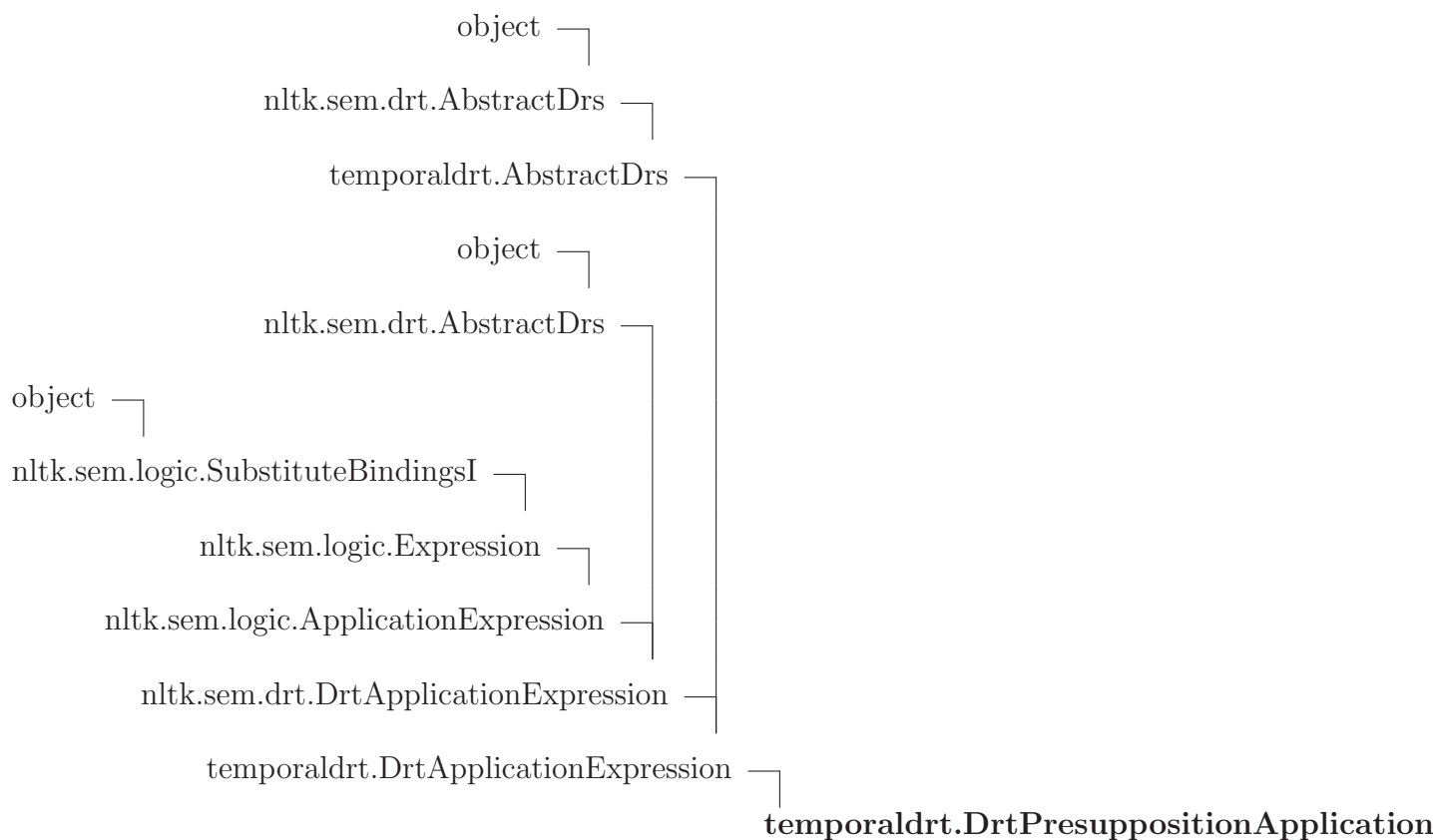
normalize(*self*)

Rename auto-generated unique variables

1.21.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i> type	
<i>Inherited from nltk.sem.logic.ApplicationExpression</i> args	
<i>Inherited from object</i> __class__	

1.22 Class *DrtPresuppositionApplicationExpression*



1.22.1 Methods

get_variable(*self*)

resolve(*self*, *trail*=[], *output*=[])

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: *temporaldrt.AbstractDrs.resolve* extit(inherited documentation)

Inherited from nltk.sem.drt.DrtApplicationExpression

fol(), get_refs()

Inherited from nltk.sem.drt.AbstractDrs

`--and--()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from `nltk.sem.logic.ApplicationExpression`

`--eq--()`, `--init--()`, `findtype()`, `free()`, `simplify()`, `str()`, `uncurry()`, `visit()`

Inherited from `nltk.sem.logic.Expression`

`--call--()`, `--hash--()`, `--neq--()`, `--repr--()`, `--str--()`, `negate()`, `replace()`, `substitute_bindings()`, `variables()`

Inherited from `object`

`--delattr--()`, `--format--()`, `--getattribute--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--setattr--()`, `--sizeof--()`, `--subclasshook--()`

Inherited from `temporaldrt.AbstractDrs` (Section 1.3)

`--add--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`--gt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`--lt--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`--neg--(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`--or--(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

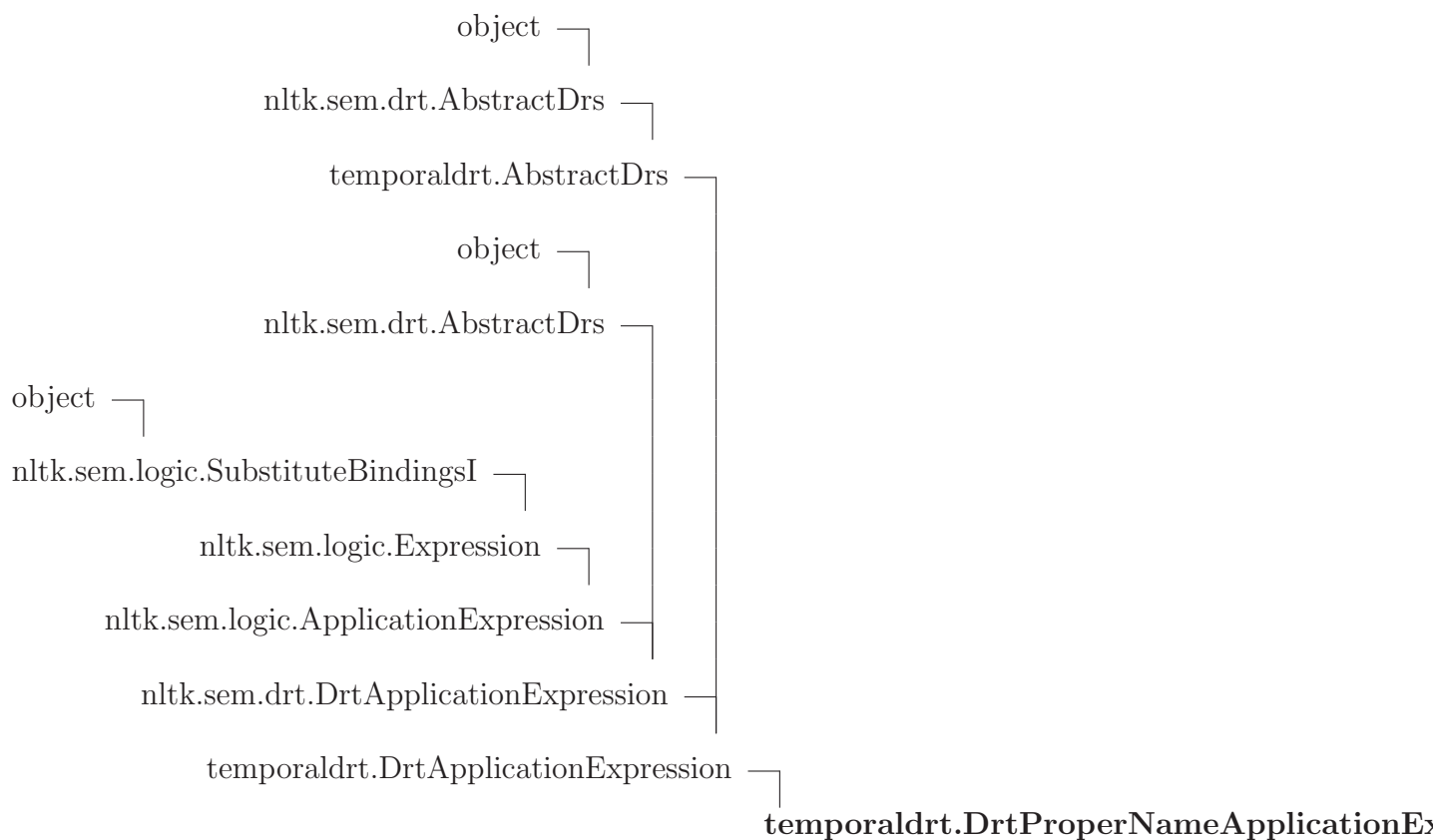
Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

normalize(*self*)

Rename auto-generated unique variables

1.22.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	type
<i>Inherited from nltk.sem.logic.ApplicationExpression</i>	args
<i>Inherited from object</i>	<code>__class__</code>

1.23 Class *DrtProperNameApplicationExpression*

1.23.1 Methods**fol(*self*)**

New condition for proper names added

Overrides: `nltk.sem.drt.DrtApplicationExpression.fol`**get_variable(*self*)****resolve(*self*, *trail*=[], *output*=[])**

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in `LOCPRO(t)`, for which purpose the `PossibleAntecedents` class is not used.Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)***Inherited from nltk.sem.drt.DrtApplicationExpression***`get_refs()`***Inherited from nltk.sem.drt.AbstractDrs***`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`***Inherited from nltk.sem.logic.ApplicationExpression***`__eq__()`, `__init__()`, `findtype()`, `free()`, `simplify()`, `str()`, `uncurry()`, `visit()`***Inherited from nltk.sem.logic.Expression***`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `negate()`, `replace()`, `substitute_bindings()`, `variables()`***Inherited from object***`__delattr__()`, `__format__()`, `__getattribute__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`***Inherited from temporaldrt.AbstractDrs(Section 1.3)*****__add__(*self*, *other*)**Overrides: `nltk.sem.drt.AbstractDrs.__add__`**__gt__(*self*, *other*)**Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`--lt--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

`--neg--`(*self*)

Overrides: `nltk.sem.drt.AbstractDrs.--neg--`

`--or--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--or--`

`applyto`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression`(*self*, *first*, *second*)

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression`(*self*, *variable*)

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

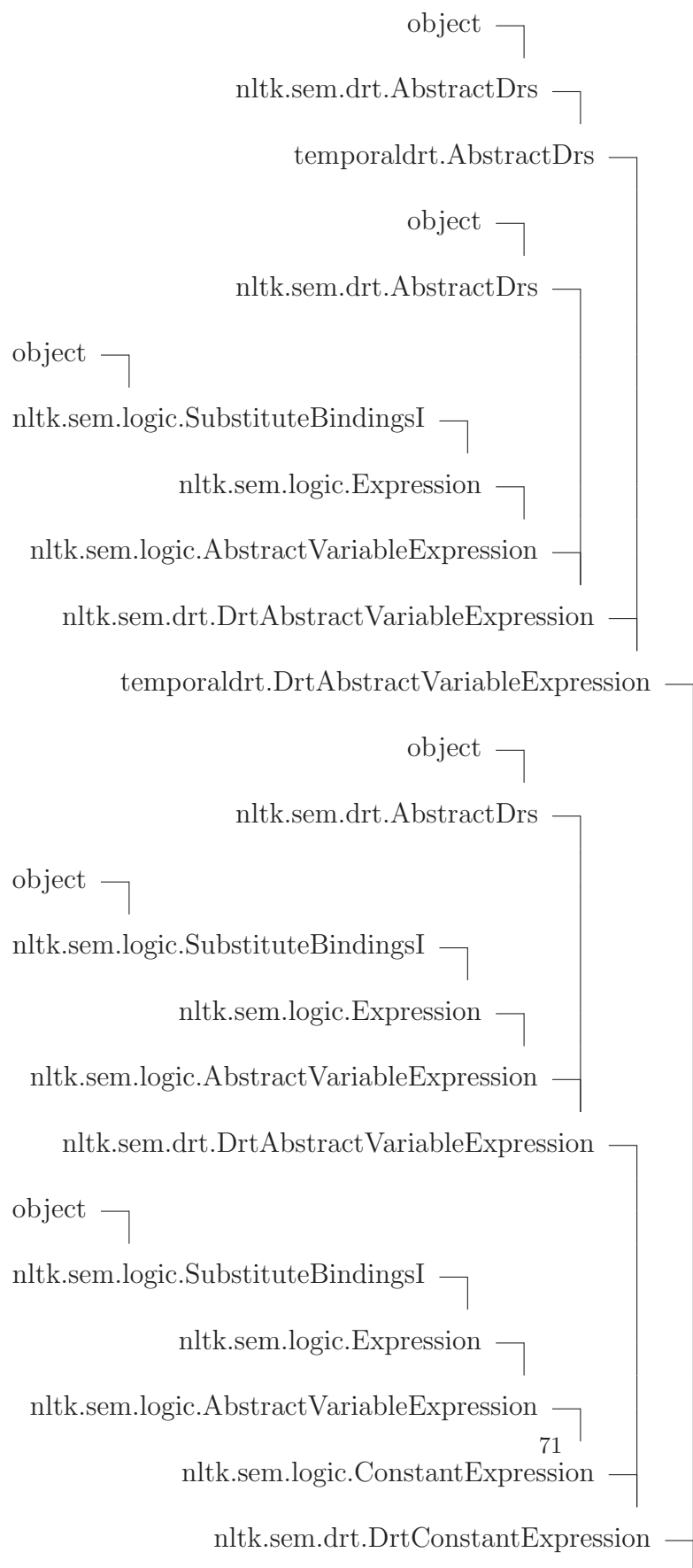
`normalize`(*self*)

Rename auto-generated unique variables

1.23.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from <code>nltk.sem.logic.ApplicationExpression</code></i>	
<code>args</code>	
<i>Inherited from object</i>	
<code>--class--</code>	

1.24 Class *DrtProperNameExpression*



Class for proper names

1.24.1 Methods

Inherited from nltk.sem.drt.DrtAbstractVariableExpression

`fol()`, `get_refs()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.ConstantExpression

`free()`

Inherited from nltk.sem.logic.AbstractVariableExpression

`__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `negate()`, `substitute_bindings()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPR(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`--lt--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--lt--`

`--neg--`(*self*)

Overrides: `nltk.sem.drt.AbstractDrs.--neg--`

`--or--`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.--or--`

`applyto`(*self*, *other*)

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression`(*self*, *first*, *second*)

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression`(*self*, *variable*)

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

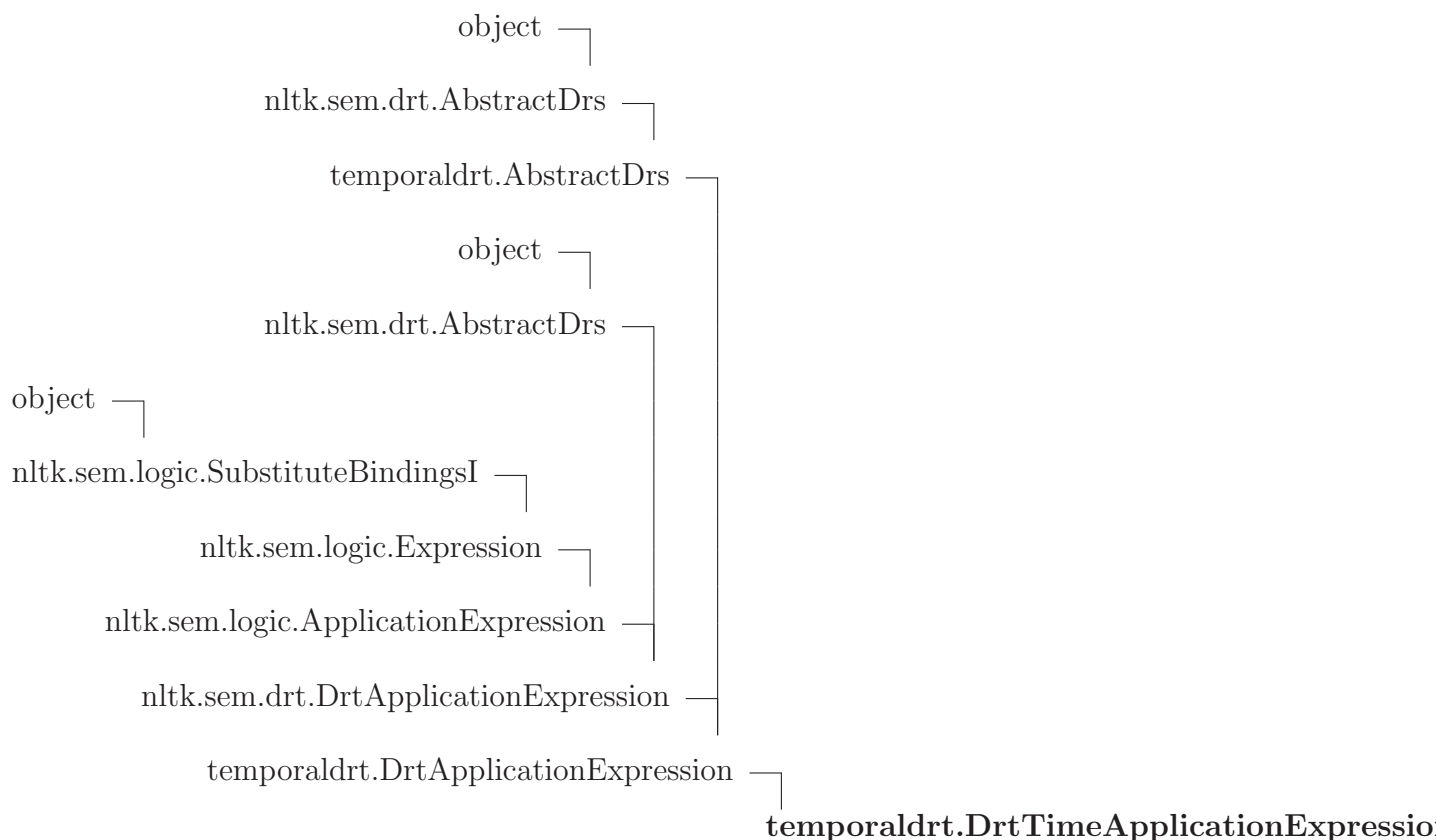
`normalize`(*self*)

Rename auto-generated unique variables

1.24.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from <code>object</code></i>	
<code>--class--</code>	

1.25 Class DrtTimeApplicationExpression



Known Subclasses: temporaldrt.DrtLocationTimeApplicationExpression

Type of DRS-conditions used in temporal logic

1.25.1 Methods

Inherited from nltk.sem.drt.DrtApplicationExpression

fol(), get_refs()

Inherited from nltk.sem.drt.AbstractDrs

`_and_()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.ApplicationExpression

```
__eq__(), __init__(), findtype(), free(), simplify(), str(), uncurry(), visit()
```

Inherited from nltk.sem.logic.Expression

```
--call_(), --hash_(), --neg_(), --repr_(), --str_(), negate(), replace(), substitute_bindings(),
```

`variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.DrtApplicationExpression(Section 1.7)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`__lt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`__neg__(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`__or__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

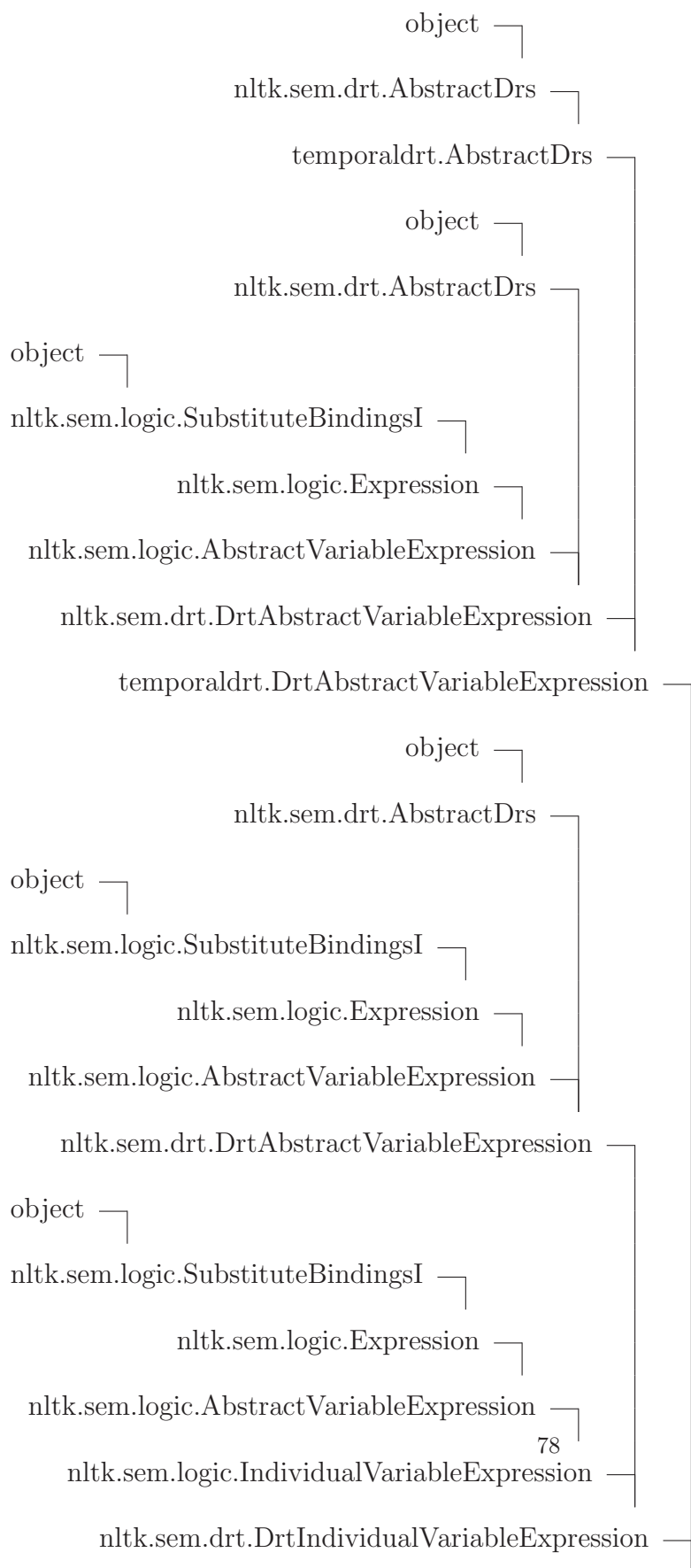
normalize(<i>self</i>)

Rename auto-generated unique variables
--

1.25.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i> type	
<i>Inherited from nltk.sem.logic.ApplicationExpression</i> args	
<i>Inherited from object</i> __class__	

1.26 Class DrtTimeVariableExpression



Type of discourse referents of time

1.26.1 Methods

Inherited from nltk.sem.drt.DrtAbstractVariableExpression

`fol()`, `get_refs()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.AbstractVariableExpression

`__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__hash__()`, `__neq__()`, `__repr__()`, `__str__()`, `free()`, `negate()`, `substitute_bindings()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattribute__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

Inherited from temporaldrt.DrtAbstractVariableExpression(Section 1.6)

`resolve(self, trail=[], output=[])`

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

Overrides: `temporaldrt.AbstractDrs.resolve` extit(inherited documentation)

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`__lt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

```
__neg__(self)
```

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

```
__or__(self, other)
```

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

```
applyto(self, other)
```

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

```
make_EqualityExpression(self, first, second)
```

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

```
make_VariableExpression(self, variable)
```

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

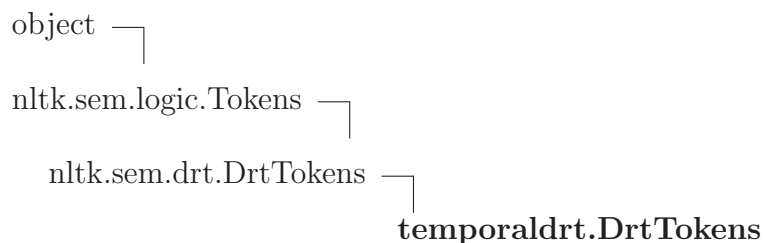
```
normalize(self)
```

Rename auto-generated unique variables

1.26.2 Properties

Name	Description
<i>Inherited from <code>nltk.sem.drt.AbstractDrs</code></i>	
<code>type</code>	
<i>Inherited from <code>object</code></i>	
<code>__class__</code>	

1.27 Class `DrtTokens`



1.27.1 Methods

Inherited from object

`__delattr__()`, `__format__()`, `__getattribute__()`, `__hash__()`, `__init__()`, `__new__()`, `__reduce__()`,
`__reduce_ex__()`, `__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

1.27.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

1.27.3 Class Variables

Name	Description
LOCATION_TIME	Value: 'LOCPR0'
PRESUPPOSITION	Value: 'PRESUPP'
PRESUPP_ACCOMMODATION	Value: 'ACCOMMOD'
<i>Inherited from nltk.sem.drt.DrtTokens</i>	
CLOSE_BRACKET, DRS, DRS_CONC, OPEN_BRACKET, PRONOUN, PUNCT, SYMBOLS, TOKENS	
<i>Inherited from nltk.sem.logic.Tokens</i>	
ALL, AND, BINOPS, CLOSE, COMMA, DOT, EQ, EXISTS, IFF, IMP, LAMBDA, NEQ, NLTK, NOT, OLD_NLTK, OPEN, OR, PROVER9, QUANTS, x	

1.28 Class LocationTimeResolutionException



1.28.1 Methods

Inherited from exceptions.Exception

`__init__()`, `__new__()`

Inherited from exceptions.BaseException

`__delattr__()`, `__getattr__()`, `__getitem__()`, `__getslice__()`, `__reduce__()`, `__repr__()`,
`__setattr__()`, `__setstate__()`, `__str__()`, `__unicode__()`

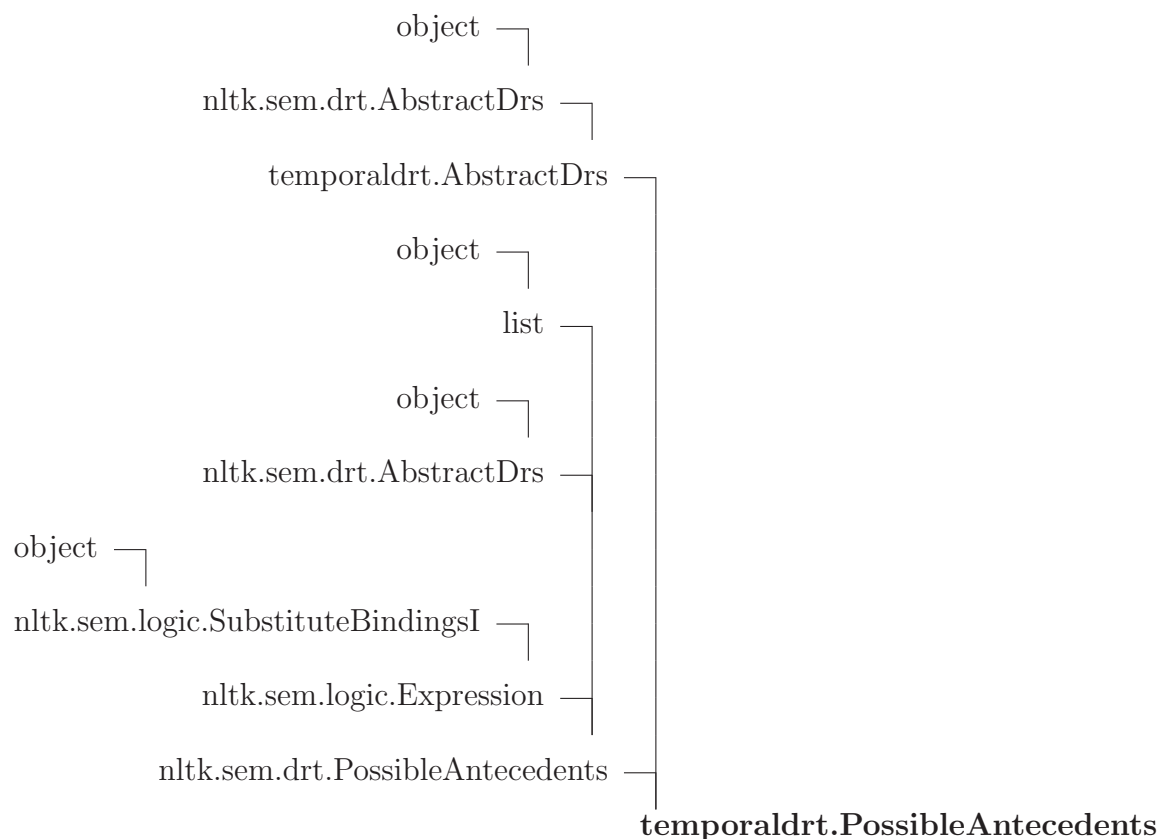
Inherited from object

`__format__()`, `__hash__()`, `__reduce_ex__()`, `__sizeof__()`, `__subclasshook__()`

1.28.2 Properties

Name	Description
<i>Inherited from exceptions.BaseException</i>	
args, message	
<i>Inherited from object</i>	
<code>__class__</code>	

1.29 Class PossibleAntecedents



1.29.1 Methods

Inherited from nltk.sem.drt.PossibleAntecedents

`free()`, `replace()`, `str()`

Inherited from list

`__contains__()`, `__delitem__()`, `__delslice__()`, `__eq__()`, `__ge__()`, `__getattr__()`, `__getitem__()`, `__getslice__()`, `__iadd__()`, `__imul__()`, `__init__()`, `__iter__()`, `__le__()`, `__len__()`, `__mul__()`, `__ne__()`, `__new__()`, `__repr__()`, `__reversed__()`, `__rmul__()`, `__setitem__()`, `__setslice__()`, `__sizeof__()`, `append()`, `count()`, `extend()`, `index()`, `insert()`, `pop()`, `remove()`, `reverse()`, `sort()`

Inherited from nltk.sem.drt.AbstractDrs

`__and__()`, `draw()`, `get_refs()`, `is_pronoun_function()`, `resolve_anaphora()`, `tp_equals()`, `typecheck()`

Inherited from nltk.sem.logic.Expression

`__call__()`, `__neq__()`, `__str__()`, `findtype()`, `negate()`, `simplify()`, `substitute_bindings()`, `variables()`, `visit()`

Inherited from object

`__delattr__()`, `__format__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__subclasshook__()`

Inherited from temporaldrt.AbstractDrs(Section 1.3)

`__add__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__add__`

`__gt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__gt__`

`__lt__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__lt__`

`__neg__(self)`

Overrides: `nltk.sem.drt.AbstractDrs.__neg__`

`__or__(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.__or__`

`applyto(self, other)`

Overrides: `nltk.sem.drt.AbstractDrs.applyto`

`make_EqualityExpression(self, first, second)`

Overrides: `nltk.sem.drt.AbstractDrs.make_EqualityExpression`

`make_VariableExpression(self, variable)`

Overrides: `nltk.sem.drt.AbstractDrs.make_VariableExpression`

`normalize(self)`

Rename auto-generated unique variables

```
resolve(self, trail=[], output=[])
```

resolve anaphora should not resolve individuals and events to time referents.

resolve location time picks out the nearest time referent other than the one in LOCPRO(t), for which purpose the PossibleAntecedents class is not used.

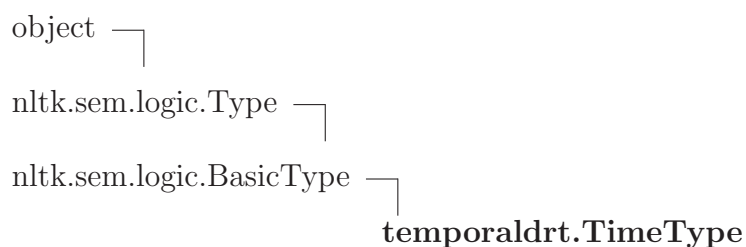
1.29.2 Properties

Name	Description
<i>Inherited from nltk.sem.drt.AbstractDrs</i>	
type	
<i>Inherited from object</i>	
__class__	

1.29.3 Class Variables

Name	Description
<i>Inherited from list</i>	
__hash__	

1.30 Class *TimeType*



Basic type of times added on top of nltk.sem.logic. Extend to utterance time referent 'n'.

1.30.1 Methods

```
__str__(self)
```

```
str(x)
```

Overrides: object.__str__ extit(inherited documentation)

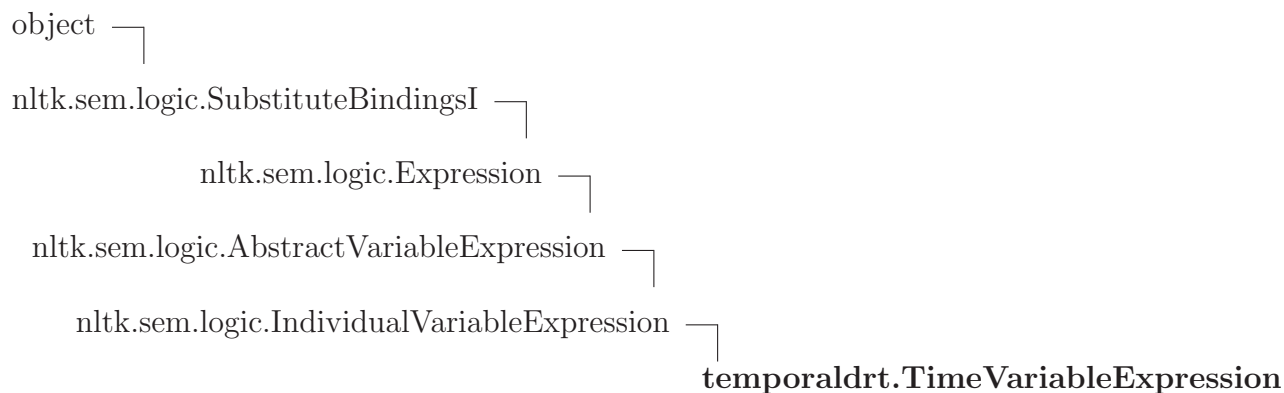
`str(self)`

Inherited from `nltk.sem.logic.BasicType``__eq__()`, `matches()`, `resolve()`**Inherited from `nltk.sem.logic.Type`**`__hash__()`, `__repr__()`**Inherited from `object`**`__delattr__()`, `__format__()`, `__getattr__()`, `__init__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

1.30.2 Properties

Name	Description
<i>Inherited from <code>object</code></i>	
<code>__class__</code>	

1.31 Class `TimeVariableExpression`

**Known Subclasses:** `temporaldrt.DrtTimeVariableExpression`

This class represents variables that take the form of a single lowercase 'i' character followed by zero or more digits.

1.31.1 Methods

Inherited from `nltk.sem.logic.AbstractVariableExpression`

`__eq__()`, `__init__()`, `findtype()`, `replace()`, `simplify()`, `str()`, `visit()`

Inherited from `nltk.sem.logic.Expression`

`__and__()`, `__call__()`, `__gt__()`, `__hash__()`, `__lt__()`, `__neg__()`, `__neq__()`, `__or__()`, `__repr__()`, `__str__()`, `applyto()`, `free()`, `make_VariableExpression()`, `negate()`, `normalize()`, `substitute.bindings()`, `tp_equals()`, `typecheck()`, `variables()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__setattr__()`, `__sizeof__()`, `__subclasshook__()`

1.31.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

1.31.3 Class Variables

Name	Description
<code>type</code>	Value: <code>i</code>

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