

Yandex.Blog Search

Yandex extension of FOAF: Reference

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Yandex

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Yandex helpdesk site: <http://help.yandex.ru>

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Yandex extension of FOAF

Abstract

Yandex extension of FOAF introduces classes and properties required to describe users' profiles and their blog activities. It represents an attempt to make Semantic Web even more convenient for automated search.

This document contains a detailed description of this extension.

This visual layout and structure of the specification has been adapted from the [FOAF Vocabulary Specification](#) by Dan Brickley and Libby Miller.

Introduction

The main objective of Yandex extension is to introduce classes and properties, that can be used for a detailed description of blog activities, such as posting comments, reading blogs, etc.

This extension is also helpful for authoring profiles. It provides convenient means to store personal information, such as biography, biometrical characteristics and names.

Using the Yandex FOAF extension you can easily specify precise location, by storing country, region, city and postal address in separate properties.

Terminology and Notation

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC 2119](#).

The XML Namespace URI that MUST be used by implementations of this specification is:

```
xmlns ya="http://blogs.yandex.ru/schema/foaf"
```

Yandex extension at a glance

An a-z index of terms, by class and by property

Classes: | [ya:Comments](#) | [ya:Links](#) | [ya:Posts](#) | [ya:Readers](#) | [ya:Syndicated](#) |

Properties: | [ya:address](#) | [ya:bio](#) | [ya:blogActivity](#) | [ya:city](#) | [ya:country](#) | [ya:creationDate](#) | [ya:dateFinish](#) | [ya:dateStart](#) | [ya:feed](#) | [ya:firstName](#) | [ya:height](#) | [ya:middleName](#) | [ya:posted](#) | [ya:received](#) | [ya:region](#) | [ya:school](#) | [ya:secondName](#) | [ya:weight](#) |

A categorized index of terms

Blogs activity	Personal information	Geographical position	Time
ya:BlogActivityClass	ya:firstName	ya:address	ya:creationDate
ya:Comments	ya:middleName	ya:city	ya:dateFinish
ya:Links	ya:secondName	ya:country	
ya:Posts	ya:bio		
ya:Readers	ya:height		
ya:Readers	ya:weight		
ya:blogActivity			
ya:Syndicated			
ya:feed			
ya:posted			

Blogs activity	Personal information	Geographical position	Time
ya:received	ya:school	ya:region	ya:dateStart

Cross-reference: Listing Classes and Properties

Yandex extension introduces the following classes and properties. See the [RDF Schema](#) for more details.

Class: [ya:Comments](#)

Comments — messages that can be posted in a blog as replies (comments) to posts

in-range-of: [ya:blogActivity](#)

in-domain-of: [ya:feed](#), [ya:posted](#), [ya:received](#)

The [ya:Comments](#) class represents messages that can be posted in a blog as replies to posts. Comments usually have a threaded structure and therefore MAY be viewed as RSS-feeds.

Using the [ya:Comments](#) class you can specify links to these RSS-feeds, as well as describe any changes, such as adding and removing comments.

Example

```
<ya:blogActivity>
  <ya:Comments>
    <ya:feed rdf:resource="http://example.com/recent_comments_rss/" dc:type="application/
rss+xml"/>
    <ya:posted>123</ya:posted>
    <ya:received>123</ya:received>
  </ya:Comments>
</ya:blogActivity>
```

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Class: [ya:Links](#)

Links — links to a blog

in-range-of: [ya:blogActivity](#)

in-domain-of: [ya:received](#)

The [ya:Links](#) class represents information about links to someone's blog.

Currently only the number of links can be specified.

Example

```
<ya:blogActivity>
  <ya:Links>
    <ya:received>123</ya:received>
  </ya:Links>
</ya:blogActivity>
```

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Class: ya:Posts

Posts — messages that can be posted in a blog

in-range-of: [ya:blogActivity](#)

in-domain-of: [ya:posted](#)

The [ya:Posts](#) class represents messages, posted by a user in his or her blog. Posts can be threaded and therefore be viewable as RSS-feeds.

Using the [ya:Posts](#) class you can specify links to these RSS-feeds, as well as the total number of posts in a feed.

Example

```
<ya:blogActivity>
  <ya:Posts>
    <ya:feed rdf:resource="http://example.com/users/user/rss/" dc:type="application/rss+xml"/>
    <ya:posted>123</ya:posted>
  </ya:Posts>
</ya:blogActivity>
```

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Class: ya:Readers

Readers — readers of a blog

in-range-of: [ya:blogActivity](#)

in-domain-of: [ya:received](#)

The [ya:Readers](#) class represents information about readers of a blog.

Currently only the number of readers can be specified.

Example

```
<ya:blogActivity>
  <ya:Readers>
    <ya:received>123</ya:received>
  </ya:Readers>
</ya:blogActivity>
```

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Class: ya:Syndicated

Syndicated — a syndicated account

in-range-of: [foaf:nick](#) | [foaf:weblog](#)

in-domain-of: [foaf:knows](#)

Many blog hostings offer their readers an opportunity to read RSS-feeds from other hostings. The [ya:Syndicated](#) class represents a syndicated account, which automatically updates with a feed's latest content. Syndicated accounts are added to friends lists.

Example

```
<foaf:knows>
  <ya:Syndicated>
    <foaf:nick>exler_rss</foaf:nick>
    <rdfs:seeAlso      rdf:resource="http://syndicated.livejournal.com/exler_rss/data/foaf/" />
    <rdfs:seeAlso rdf:resource="http://exler.ru/blog/blog.xml" />
    <foaf:weblog rdf:resource="http://syndicated.livejournal.com/exler_rss/" />
  </ya:Syndicated>
</foaf:knows>
```

[back to top](#)**Class: ya:BlogActivityClass***BlogActivityClass* — activity in a blog**in-range-of:** [ya:feed](#) [ya:posted](#) [ya:received](#)**in-domain-of:** [ya:blogActivity](#)

The [ya:BlogActivityClass](#) class represents any activity that MAY be performed in a blog. This class SHOULD NOT be used directly. Instead you SHOULD use classes, which refer to a particular activity, e. g. [ya:Comments](#), [ya:Links](#), [ya:Posts](#) and [ya:Readers](#).

[back to top](#)**Property: ya:blogActivity***blogActivity* — activity in a blog**domain:** [foaf:Agent](#)**range:** [ya:BlogActivityClass](#)

The [ya:blogActivity](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to an activity, that MAY be performed in a blog.

The activities include adding or removing comments ([ya:Comments](#)), posts ([ya:Posts](#)) or links ([ya:Links](#)), changing the number of readers ([ya:Readers](#)), etc.

Example

Comments:

```
<ya:blogActivity>
  <ya:Comments>
    <ya:feed rdf:resource="recent comments rss" dc:type="application/rss+xml" />
    <ya:posted>123</ya:posted>
    <ya:received>123</ya:received>
  </ya:Comments>
</ya:blogActivity>
```

Posts:

```
<ya:blogActivity>
  <ya:Posts>
    <ya:feed rdf:resource="http://www.valez.ru/users/valez/rss/" dc:type="application/rss+xml" />
    <ya:posted>123</ya:posted>
  </ya:Posts>
</ya:blogActivity>
```

Links:

```
<ya:blogActivity>
  <ya:Links>
    <ya:received>123</ya:received>
  </ya:Links>
</ya:blogActivity>
```

Readers:

```
<ya:blogActivity>
  <ya:Readers>
    <ya:received>123</ya:received>
  </ya:Readers>
</ya:blogActivity>
```

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Property: ya:feed

feed — a feed (e.g., RSS, Atom, etc.)

domain: [ya:BlogActivityClass](#)

range: <http://www.w3.org/2002/07/owl#Thing>

The [ya:feed](#) property relates an activity specified with a [ya:blogActivity](#) property to an RSS-feed (e.g., RSS, Atom, etc.).

Example

```
<ya:blogActivity>
  <ya:Posts>
    <ya:feed rdf:resource="http://www.valez.ru/users/valez/rss/" dc:type="application/
    rss+xml"/>
    <ya:posted>123</ya:posted>
  </ya:Posts>
</ya:blogActivity>
```

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Property ya:posted

posted — the number of posted messages

domain: [ya:BlogActivityClass](#)

range: <http://www.w3.org/2001/XMLSchema#nonNegativeInteger>

The [ya:posted](#) property relates an activity specified with a [ya:blogActivity](#) property to the number of messages posted to a blog, forum, etc. as a result of this activity.

Example

```
<ya:blogActivity>
  <ya:Posts>
    <ya:feed rdf:resource="http://www.valez.ru/users/valez/rss/" dc:type="application/
    rss+xml"/>
    <ya:posted>123</ya:posted>
  </ya:Posts>
</ya:blogActivity>
```

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Property: ya:received

received — the number of received elements

domain: [ya:BlogActivityClass](#)

range: <http://www.w3.org/2001/XMLSchema#nonNegativeInteger>

The [ya:received](#) property relates an activity specified with a [ya:blogActivity](#) property to the number of elements produced as a result of this activity.

Example

```
<ya:blogActivity>
  <ya:Readers>
    <ya:received>5</ya:received>
  </ya:Readers>
</ya:blogActivity>
```

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Property: ya:firstName

firstName — first name (as opposed to middle name and last name)

domain: [foaf:Person](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The [ya:firstName](#) property relates a [foaf:Person](#) to a string that contains person's first name.

Note:

The properties [ya:firstName](#), [ya:secondName](#) and [ya:middleName](#) represent personal names, which consist of three parts: first name, middle name and last name (e. g. Russian names). The properties allow to store parts of three-part names (e. g. Russian patronymic names) separately, as opposed to [foaf:name](#), which wraps the same information into a text string.

Example

```
<foaf:Person>
  <ya:firstNode>Ivan</ya:firstNode>
  <ya:middleName>Petrovich</ya:middleName>
  <ya:secondName>Pupkin</ya:secondName>
  ...
</foaf:Person>
```

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Property: ya:middleName

middleName — middle name (as opposed to first name and last name)

domain: [foaf:Person](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The `ya:middleName` property relates a `foaf:Person` to a string that contains person's middle name.

Note:

The properties `ya:firstName`, `ya:secondName` and `ya:middleName` represent personal names, which consist of three parts: first name, middle name and last name (e. g. Russian names). The properties allow to store parts of three-part names (e. g. Russian patronymic names) separately, as opposed to `foaf:name`, which wraps the same information into a text string.

Example

```
<foaf:Person>
  <ya:firstName>Ivan</ya:firstName>
  <ya:middleName>Petrovich</ya:middleName>
  <ya:secondName>Pupkin</ya:secondName>
  ...
</foaf:Person>
```

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Property: `ya:secondName`

secondName — last name (as opposed to first name and middle name)

domain: `foaf:Person`

range: `http://www.w3.org/2000/01/rdf-schema#Literal`

The `ya:secondName` property relates a `foaf:Person` to a string that contains person's last name.

Note:

The properties `ya:firstName`, `ya:secondName` and `ya:middleName` represent personal names, which consist of three parts: first name, middle name and last name (e. g. Russian names). The properties allow to store parts of three-part names (e. g. Russian patronymic names) separately, as opposed to `foaf:name`, which wraps the same information into a text string.

Example

```
<foaf:Person>
  <ya:firstName>Ivan</ya:firstName>
  <ya:middleName>Petrovich</ya:middleName>
  <ya:secondName>Pupkin</ya:secondName>
  ...
</foaf:Person>
```

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Property: `ya:bio`

bio — a freeform biography

domain: `foaf:Person`

range: `http://www.w3.org/2000/01/rdf-schema#Literal`

The `ya:bio` property relates a `foaf:Agent` (usually a `foaf:Person`) to a textual string that contains a freeform personal biography.

Example

```
<foaf:Person>
  <ya:bio>
    The eldest of three brothers, von Neumann was born Neumann János Lajos (in
    Hungarian the family name comes first) in Budapest, Hungary, to a wealthy non-practicing
    Jewish family. His father was Neumann Miksa (Max Neumann), a lawyer who worked in a bank.
    His mother was Kann Margit (Margaret Kann). Von Neumann's ancestors had originally
    immigrated to Hungary from Russia.
    ...
    Note: material from Wikipedia, the free encyclopaedia (http://en.wikipedia.org/
    wiki/John\_von\_Neumann#Biography)
  </ya:bio>
  ...
</foaf:Person>
```

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Property: `ya:height`

height — height of a person

domain: `foaf:Person`

range: `http://www.w3.org/2000/01/rdf-schema#Literal`

The `ya:height` property relates a `foaf:Agent` (usually a `foaf:Person`) to a textual string that contains information about person's height. Height SHOULD be specified in centimeters and MAY be expressed as a single number or as a range (lower and higher limits separated with a dash "-").

Example

Height specified as a number:

```
<foaf:Person>
  <ya:height>175</ya:height>
  ...
</foaf:Person>
```

Height specified as a range:

```
<foaf:Person>
  <ya:height>190-210</ya:height>
  ...
</foaf:Person>
```

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Property: `ya:weight`

weight — weight of a person

domain: `foaf:Person`

range: `http://www.w3.org/2000/01/rdf-schema#Literal`

The `ya:weight` property relates a `foaf:Agent` (usually a `foaf:Person`) to a textual string that contains information about person's weight. Height SHOULD be specified in kilogrammes and MAY be expressed as a single number or as a range (lower and higher limits separated with a dash "-").

Example

Weight specified as a number:

```
<foaf:Person>
  <ya:weight>75</ya:weight>
  ...
</foaf:Person>
```

Weight specified as a range:

```
<foaf:Person>
  <ya:weight>80-100</ya:weight>
  ...
</foaf:Person>
```

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Property: ya:school

school — a school or other educational establishment

domain: [foaf:Person](#)

range: <http://www.w3.org/2002/07/owl#Thing>

The [ya:school](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to an anonymous class "School" (not implemented). The term "school" can be applied to any educational establishment.

Example

```
<foaf:Person>
  <ya:school rdf:resource="http://link-to-filter-by-school" ya:dateStart="2003-09"
  ya:dateFinish="2007-12" dc:title="St. Petersburg State University"/>
</foaf:Person>
```

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Property: ya:address

address — an address

domain: [foaf:Agent](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The [ya:address](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to a textual string that contains an address.

Example

```
<foaf:Person>
  <ya:address
    dc:title="80539 Munic, Maximilianstrasse 31"
    rdf:resource="http://maps.yandex.ru/?text=80539 Munic, Maximilianstrasse 31"/>
</foaf:Person>
```

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Property: ya:city

city — a city

domain: [foaf:Agent](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The [ya:city](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to a textual string that contains the name of a city.

Example

```
<foaf:Person>
  <ya:city
    dc:title="Munic"
    rdf:resource="http://maps.yandex.ru/?text=Munic"/>
</foaf:Person>
```

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Property: ya:region

region — a region

domain: [foaf:Agent](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The [ya:region](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to a textual string that contains the name of a region.

Example

```
<foaf:Person>
  <ya:region
    dc:title="Bavaria"
    rdf:resource="http://maps.yandex.ru/?text=Bavaria"/>
</foaf:Person>
```

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Property: ya:country

country — a country

domain: [foaf:Agent](#)

range: <http://www.w3.org/2000/01/rdf-schema#Literal>

The [ya:country](#) property relates a [foaf:Agent](#) (usually a [foaf:Person](#)) to a textual string that contains the name of a country.

Example

```
<foaf:Person>
  <ya:country
    dc:title="Germany"
    rdf:resource="http://maps.yandex.ru/?text=Germany"/>
</foaf:Person>
```

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Property: ya:creationDate

creationDate — creation date

domain: <http://www.w3.org/2002/07/owl#Thing>

range: <http://www.w3.org/2001/XMLSchema#dateTime>

The [ya:creationDate](#) property relates a thing to the date and time of its creation. The time format should be [ISO8601](#).

Example

```
<foaf:weblog rdf:resource="http://www.valez.ru/" ya:creationDate="2002-07-17T15:07:51"
dc:title="ValeZ"/>
```

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Property: ya:dateStart

dateStart — opening date

domain: <http://www.w3.org/2002/07/owl#Thing>

range: <http://www.w3.org/2001/XMLSchema#dateTime>

The [ya:dateStart](#) property relates a process to its opening date and time. The time format should be [ISO8601](#).

Yandex.Blogs Search uses this property together with the [ya:school](#) property to specify the starting date of the learning process.

Example

```
<ya:school rdf:resource="http://link-to-filter-by-school" ya:dateStart="2003-09"
ya:dateFinish="2007-12" dc:title="St. Petersburg State University"/>
```

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Property: ya:dateFinish

dateFinish — closing date

domain: <http://www.w3.org/2002/07/owl#Thing>

range: <http://www.w3.org/2001/XMLSchema#dateTime>

The [ya:dateFinish](#) property relates a process to its closing date and time. The time format should be [ISO8601](#).

Yandex.Blogs Search uses this property together with the [ya:school](#) property to specify the closing date of the learning process.

Example

```
<ya:school rdf:resource="http://link-to-filter-by-school" ya:dateStart="2003-09"
ya:dateFinish="2007-12" dc:title="St. Petersburg State University"/>
```

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