

FOAF Vocabulary Specification 0.98

Namespace Document 9 August 2010 - *Marco Polo Edition*

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This work is licensed under a [Creative Commons Attribution License](#). This copyright applies to the *FOAF Vocabulary Specification* and accompanying documentation in RDF. Regarding underlying technology, FOAF uses W3C's [RDF](#) technology, an open Web standard that can be freely used by anyone.

Abstract

This specification describes the FOAF language, defined as a dictionary of named properties and classes using W3C's RDF technology.

FOAF is a project devoted to linking people and information using the Web. Regardless of whether information is in people's heads, in physical or digital documents, or in the form of factual data, it can be linked. FOAF integrates three kinds of network: *social networks* of human collaboration, friendship and association; *representational networks* that describe a simplified view of a cartoon universe in factual terms, and *information networks* that use Web-based linking to share independently published descriptions of this inter-connected world. FOAF does not compete with socially-oriented Web sites; rather it provides an approach in which different sites can tell different parts of the larger story, and by which users can retain some control over their information in a non-proprietary format.

Status of This Document

FOAF has been evolving gradually since its creation in mid-2000. There is now a stable core of classes and properties that will not be changed, beyond modest adjustments to their documentation to track implementation feedback and emerging best practices. New terms may be added at any time (as with a natural-language dictionary), and consequently this specification is an evolving work. The FOAF RDF namespace URI, by contrast, is fixed and its identifier is not expected to [change](#). Furthermore, efforts are underway to ensure the long-term preservation of the FOAF namespace, its xmlns.com domain name and associated documentation.

The FOAF specification is produced as part of the [FOAF project](#), to provide authoritative documentation of the contents, status and purpose of the RDF/XML vocabulary and document formats known informally as 'FOAF'.

This document is created by combining the [RDFS/OWL](#) machine-readable FOAF ontology with a set of [per-term](#) documents. Future versions may incorporate [multilingual translations](#) of the term definitions. An RDF/XML encoding of the specification is available by [direct link](#) or by HTTP [content negotiation](#) from the [namespace URI](#). The HTML specification no longer embeds the RDF/XML markup; however an experimental subset of the RDF is included in this document using RDFa notation.

The authors welcome comments on this document, preferably via the public FOAF developers list foaf-dev@lists.foaf-project.org; [public archives](#) are available. A historical backlog of known technical issues is acknowledged, and available for discussion in the [FOAF wiki](#). Proposals for resolving these issues are welcomed, either on foaf-dev or via the wiki. Further work is also needed on the explanatory text in this specification and on the [FOAF website](#); progress towards this will be measured in the version number of future revisions to the FOAF specification.

Changes in version 0.98

This revision introduces the new [foaf:focus](#) term, fixes a few long-standing editorial bugs, and makes some largely predictable changes to the 'status' of various terms. Some older text has been archived to the Wiki. New overview text has been added, which attempts to present more clearly the general approach, design and philosophy of the project. The 'at a glance' has been simplified, and now shows 'core' and 'social Web' groupings from FOAF's most widely used terms. Consumers of the machine-readable version should note that some disjointness and rdfs:domain claims have been relaxed, as detailed below; also that the values of the foaf:logo property are now considered uniquely identifying.

See the [changes](#) section for more detailed change-log information.

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FOAF at a glance

FOAF describes the world using simple ideas inspired by the Web. In FOAF descriptions, there are only various kinds of things and links, which we call *properties*. The types of the things we talk about in FOAF are called *classes*. FOAF is therefore defined as a dictionary of terms, each of which is either a *class* or a *property*. Other projects alongside FOAF provide other sets of classes and properties, many of which are linked with those defined in FOAF.

FOAF descriptions are themselves published as linked documents in the Web (eg. using RDF/XML or RDFa syntax). The result of the FOAF project is a network of documents describing a network of people (and other stuff). Each FOAF document is itself an encoding of a descriptive network structure. Although these documents do not always agree or tell the truth, they have the useful characteristic that they can be easily merged, allowing partial and decentralised descriptions to be combined in interesting ways.

FOAF collects a variety of terms; some describe people, some groups, some documents. Different kinds of application can use or ignore different parts of FOAF. The overview here shows one way of viewing FOAF terms: we ignore archaic and historical parts, and divide the rest into terms that only make sense on the Web, and those that have universal applicability when linking people and information.

Main FOAF terms, grouped in broad categories.

- **Core** - These classes and properties form the core of FOAF. They describe characteristics of people and social groups that are independent of time and technology; as such they can be used to describe basic information about people in present day, historical, cultural heritage and digital library contexts. In addition to various characteristics of people, FOAF defines classes for Project, Organization and Group as other kinds of agent. Related work: [Dublin Core](#), [SKOS](#), [DOAP](#), [SIOC](#), [Org vocabulary](#), [Bio vocabulary](#).

- **Social Web** - in addition to the FOAF core terms, there are a number of terms for use when describing Internet accounts, addressbooks and other Web-based activities. Related work: [Portable Contacts](#), [W3C Social Web group](#).
- **Linked Data utilities** - FOAF began as the 'RDFWeb' project, and established a widely adopted model for publishing simple factual data via a networked of linked RDF documents. FOAF remains important to the growing "Linked Data" community, while also maintaining a concern for information that is not readily summarised as simple factual data. FOAF is an attempt to use the Web to integrate factual information with information in human-oriented documents (eg. videos, books, spreadsheets, 3d models), as well as information that is still in people's heads. This history explains why FOAF includes a few 'demonstration' terms that served largely educational purposes (eg. [geekcode](#)), alongside a few technical utility terms (eg. [focus](#), [LabelProperty](#)) that support wider information-linking efforts. The dictionary-based design of FOAF allows a certain pragmatism: we simply record here a set of terms that are useful to the Web community, while keeping an emphasis on the central idea of FOAF, which is about linking networks of information with networks of people.

FOAF Core

- - [Agent](#)
 - [Person](#)
 - [name](#)
 - [title](#)
 - [img](#)
 - [depiction](#) ([depicts](#))
 - [familyName](#)
 - [givenName](#)
 - [knows](#)
 - [based_near](#)
 - [age](#)
 - [made](#) ([maker](#))
 - [primaryTopic](#) ([primaryTopicOf](#))
- - [Project](#)
 - [Organization](#)
 - [Group](#)
 - [member](#)
- - [Document](#)
 - [Image](#)

Social Web

- [nick](#)

- [mbox](#)
- [homepage](#)
- [weblog](#)
- [openid](#)
- [jabberID](#)
- [mbox_sha1sum](#)
- [interest](#)
- [topic_interest](#)
- [topic](#) (page)
- [workplaceHomepage](#)
- [workInfoHomepage](#)
- [schoolHomepage](#)
- [publications](#)
- [currentProject](#)
- [pastProject](#)
- [account](#)
- [OnlineAccount](#)
- [accountName](#)
- [accountServiceHomepage](#)
- [PersonalProfileDocument](#)
- [tipjar](#)
- [sha1](#)
- [thumbnail](#)
- [logo](#)

A-Z of FOAF terms (current and archaic)

This is a complete alphabetical A-Z index of **all** FOAF terms, by class (categories or types) and by property. Note that it includes 'archaic' terms that are largely of historical interest.

Classes: | [Agent](#) | [Document](#) | [Group](#) | [Image](#) | [LabelProperty](#) | [OnlineAccount](#) | [OnlineChatAccount](#) | [OnlineEcommerceAccount](#) | [OnlineGamingAccount](#) | [Organization](#) | [Person](#) | [PersonalProfileDocument](#) | [Project](#) |

Properties: | [account](#) | [accountName](#) | [accountServiceHomepage](#) | [age](#) | [aimChatID](#) | [based_near](#) | [birthday](#) | [currentProject](#) | [depiction](#) | [depicts](#) | [dnaChecksum](#) | [familyName](#) | [family_name](#) | [firstName](#) | [focus](#) | [fundedBy](#) | [geekcode](#) | [gender](#) | [givenName](#) | [givenname](#) | [holdsAccount](#) | [homepage](#) | [icqChatID](#) | [img](#) | [interest](#) | [isPrimaryTopicOf](#) | [jabberID](#) | [knows](#) | [lastName](#) | [logo](#) | [made](#) | [maker](#) | [mbox](#) | [mbox_sha1sum](#) | [member](#) | [membershipClass](#) | [msnChatID](#) | [myersBriggs](#) | [name](#) | [nick](#) | [openid](#) | [page](#) | [pastProject](#) | [phone](#) | [plan](#) | [primaryTopic](#) | [publications](#) | [schoolHomepage](#) | [sha1](#) | [skypeID](#) | [status](#) | [surname](#) | [theme](#) | [thumbnail](#) | [tipjar](#) | [title](#) | [topic](#) | [topic_interest](#) | [weblog](#) | [workInfoHomepage](#) | [workplaceHomepage](#) | [yahooChatID](#) |

Example

Here is a very basic document describing a person:

```
<foaf:Person rdf:about="#danbri"
xmlns:foaf="http://xmlns.com/foaf/0.1/">
  <foaf:name>Dan Brickley</foaf:name>
  <foaf:homepage rdf:resource="http://danbri.org/" />
  <foaf:openid rdf:resource="http://danbri.org/" />
  <foaf:img rdf:resource="/images/me.jpg" />
</foaf:Person>
```

This brief example introduces the basics of FOAF. It basically says, "there is a [foaf:Person](#) with a [foaf:name](#) property of 'Dan Brickley'; this person stands in [foaf:homepage](#) and [foaf:openid](#) relationship to a thing called <http://danbri.org/> and a [foaf:img](#) relationship to a thing referenced by a relative URI of [/images/me.jpg](#)

1 Introduction: FOAF Basics

The Semantic Web

To a computer, the Web is a flat, boring world, devoid of meaning. This is a pity, as in fact documents on the Web describe real objects and imaginary concepts, and give particular relationships between them. For example, a document might describe a person. The title document to a house describes a house and also the ownership relation with a person. Adding semantics to the Web involves two things: allowing documents which have information in machine-readable forms, and allowing links to be created with relationship values. Only when we have this extra level of semantics will we be able to use computer power to help us exploit the information to a greater extent than our own reading. - Tim Berners-Lee "[W3 future directions](#)" keynote, 1st World Wide Web Conference Geneva, May 1994

I express my network in a FOAF file, and that is a start of the revolution. - TimBL 2007, [Giant Global Graph](#) ([foaf](#))

FOAF is a project devoted to linking people and information using the Web. Regardless of whether information is in people's heads, in physical or digital documents, or in the form of factual data, it can be linked. FOAF integrates three kinds of network: *social networks* of human collaboration, friendship and association; *representational networks* that describe a simplified view of a cartoon universe in factual terms, and *information networks* that use Web-based linking to share independently published descriptions of this inter-connected world. FOAF does not compete with socially-oriented Web sites; rather it provides an approach in which different sites can tell different parts of the larger story, and through which users can retain some control over their information in a non-proprietary format.

FOAF and the Semantic Web

FOAF, like the Web itself, is a linked information system. It is built using decentralised [Semantic Web](#) technology, and has been designed to allow for integration of data across a variety of applications, Web sites and services, and software systems. To achieve this, FOAF takes a liberal approach to data exchange. It does not require you to say anything at all about yourself or others, nor does it place any limits on the things you can say or the variety of Semantic Web vocabularies you may use in doing so. This current specification provides a basic "dictionary" of terms for talking about people and the things they make and do.

FOAF was designed to be used alongside other such dictionaries ("schemas" or "ontologies"), and to be usable with the wide variety of generic tools and services that have been created for the Semantic Web. For example, the W3C work on [SPARQL](#) provides us with a rich query language for consulting databases of FOAF data, while the [SKOS](#) initiative explores in more detail than FOAF the problem of describing topics, categories, "folksonomies" and subject hierarchies. Meanwhile, other W3C groups are working on improved mechanisms for encoding all kinds of RDF data (including but not limited to FOAF) within Web pages: see the work of the [GRDDL](#) and [RDFa](#) efforts for more detail. The Semantic Web provides us with an *architecture for collaboration*, allowing complex technical challenges to be shared by a loosely-coordinated community of developers.

The FOAF project is based around the use of *machine readable* Web homepages for people, groups, companies and other kinds of thing. To achieve this we use the "FOAF vocabulary" to provide a collection of basic terms that can be used in these Web pages. At the heart of the FOAF project is a set of definitions designed to serve as a dictionary of terms that can be used to express claims about the world. The initial focus of FOAF has been on the description of people, since people are the things that link together most of the other kinds of things we describe in the Web: they make documents, attend meetings, are depicted in photos, and so on.

The FOAF Vocabulary definitions presented here are written using a computer language (RDF/OWL) that makes it easy for software to process some basic facts about the terms in the FOAF vocabulary, and consequently about the things described in FOAF documents. A FOAF document, unlike a traditional Web page, can be combined with other FOAF documents to create a unified database of information. FOAF is a [Linked Data](#) system, in that it is based around the idea of linking together a Web of decentralised descriptions.

The Basic Idea

The basic idea is pretty simple. If people publish information in the FOAF document format, machines will be able to make use of that information. If those files contain "see also" references to other such documents in the Web, we will have a machine-friendly version of today's hypertext Web. Computer programs will be able to scutter around a Web of documents designed for machines rather than humans, storing the information they find, keeping a list of "see also" pointers to other documents, checking digital

signatures (for the security minded) and building Web pages and question-answering services based on the harvested documents.

So, what is the 'FOAF document format'? FOAF files are just text documents (well, Unicode documents). They adopt the conventions of the Resource Description Framework (RDF), and may be written in XML syntax or any other of the syntaxes of RDF such as RDFa or N3. In addition, the FOAF vocabulary defines some useful constructs that can appear in FOAF files, alongside other RDF vocabularies defined elsewhere. For example, FOAF defines categories ('classes') such as `foaf:Person`, `foaf:Document`, `foaf:Image`, alongside some handy properties of those things, such as `foaf:name`, `foaf:mbox` (ie. an internet mailbox), `foaf:homepage` etc., as well as some useful kinds of relationship that hold between members of these categories. For example, one interesting relationship type is `foaf:depiction`. This relates something (eg. a `foaf:Person`) to a `foaf:Image`. The FOAF demos that feature photos and listings of 'who is in which picture' are based on software tools that parse RDF documents and make use of these properties.

The specific contents of the FOAF vocabulary are detailed in this [FOAF namespace document](#). In addition to the FOAF vocabulary, one of the most interesting features of a FOAF file is that it can contain "see Also" pointers to other FOAF files. This provides a basis for automatic harvesting tools to traverse a Web of interlinked files, and learn about new people, documents, services, data...

The remainder of this specification describes how to publish and interpret descriptions such as these on the Web, using RDF/XML for syntax (file format) and terms from FOAF. It introduces a number of categories (RDF classes such as 'Person') and properties (relationship and attribute types such as 'mbox' or 'workplaceHomepage'). Each term definition is provided in both human and machine-readable form, hyperlinked for quick reference.

What's FOAF for?

For an early general introduction to FOAF, see Edd Dumbill's article, [XML Watch: Finding friends with XML and RDF](#) (June 2002, IBM developerWorks). Information about the use of FOAF [with image metadata](#) is also available.

The [co-depiction](#) experiment shows a fun use of the vocabulary. To create a FOAF document, you can use Leigh Dodd's [FOAF-a-matic](#) javascript tool. For more information on FOAF and related projects, see the [FOAF project home page](#) and the [FOAF Wiki](#).

Background

FOAF is a collaborative effort amongst developers on the FOAF (foaf-dev@lists.foaf-project.org) mailing list. The name 'FOAF' is derived from traditional internet usage, an acronym for 'Friend of a Friend'.

The name was chosen to reflect our concern with social networks and the Web, urban myths, trust and connections. Other uses of the name continue, notably in the documentation and investigation of Urban Legends (eg. see the [alt.folklore.urban archive](#) or [snopes.com](#)), and other FOAF stories. Our use of the name 'FOAF' for a Web vocabulary and document format is intended to complement, rather than replace, these prior uses. FOAF documents describe the characteristics and relationships amongst friends of friends, and their friends, and the stories they tell.

FOAF and Standards

It is important to understand that the FOAF *vocabulary* as specified in this document is not a standard in the sense of [ISO Standardisation](#), or that associated with [W3C Process](#).

FOAF depends heavily on W3C's standards work, specifically on XML, XML Namespaces, RDF, and OWL. All FOAF *documents* must be well-formed RDF documents. The FOAF vocabulary, by contrast, is managed more in the style of an [Open Source](#) or [Free Software](#) project than as an industry standardisation effort (eg. see [Jabber JEPs](#)).

This specification contributes a vocabulary, "FOAF", to the Semantic Web, specifying it using W3C's [Resource Description Framework](#) (RDF). As such, FOAF adopts by reference both syntaxes (using XML, N3, or RDFa) a data model (RDF graphs) and a mathematically grounded definition for the rules that underpin the FOAF design.

The FOAF Vocabulary Description

This specification serves as the FOAF "namespace document". As such it describes the FOAF vocabulary the terms ([RDF](#) classes and properties) that constitute it, so that [Semantic Web](#) applications can use those terms in a variety of RDF-compatible document formats and applications.

This document presents FOAF as a [Semantic Web](#) vocabulary or *Ontology*. The FOAF vocabulary is pretty simple, pragmatic and designed to allow simultaneous deployment and extension. FOAF is intended for widescale use, but its authors make no commitments regarding its suitability for any particular purpose.

Evolution and Extension of FOAF

The FOAF vocabulary is identified by the namespace URI 'http://xmlns.com/foaf/0.1/'. Revisions and extensions of FOAF are conducted through edits to this document, which by convention is accessible in the Web via the

namespace URI. For practical and deployment reasons, note that **we do not update the namespace URI as the vocabulary matures**.

Much of FOAF now is considered stable. Each release of this specification document has an incrementally increased version number, even while the technical namespace ID remains fixed and includes the original value of "0.1". It long ago became impractical to update the namespace URI without causing huge disruption to both producers and consumers of FOAF data. We are left with the digits "0.1" in our URI. This stands as a warning to all those who might embed metadata in their vocabulary identifiers.

The evolution of FOAF is best considered in terms of the stability of individual vocabulary terms, rather than the specification as a whole. As terms stabilise in usage and documentation, they progress through the categories '**unstable**', '**testing**' and '**stable**'. Older terms are marked '**archaic**' which allows the possibility of older forms to become modern again.

The properties and types defined here provide some basic useful concepts for use in FOAF descriptions. Other vocabulary (eg. the [Dublin Core](#) metadata elements for simple bibliographic description), RSS 1.0 etc can also be mixed in with FOAF terms, as can local extensions. FOAF is designed to be extended. The [FoafVocab](#) page in the FOAF wiki lists a number of extension vocabularies that are particularly applicable to use with FOAF.

FOAF Auto-Discovery: Publishing and Linking FOAF files

If you publish a FOAF self-description (eg. using [foaf-a-matic](#)) you can make it easier for tools to find your FOAF by putting markup in the `head` of your HTML homepage. It doesn't really matter what filename you choose for your FOAF document, although `foaf.rdf` is a common choice. The linking markup is as follows:

```
<link rel="meta" type="application/rdf+xml" title="FOAF"
      href="http://example.com/~you/foaf.rdf"/>
```

...although of course change the *URL* to point to your own FOAF document. See also: more on [FOAF autodiscovery](#) and services that make use of it.

FOAF and RDF

For information about why FOAF uses RDF, see the [FOAFandRDF](#) wiki entry.

FOAF cross-reference: Listing FOAF Classes and Properties

FOAF introduces the following classes and properties. A machine-friendly version is also available in [RDF/XML](#).

Classes: | [Agent](#) | [Document](#) | [Group](#) | [Image](#) | [LabelProperty](#) | [OnlineAccount](#) | [OnlineChatAccount](#) | [OnlineEcommerceAccount](#) | [OnlineGamingAccount](#) | [Organization](#) | [Person](#) | [PersonalProfileDocument](#) | [Project](#) |

Properties: | [account](#) | [accountName](#) | [accountServiceHomepage](#) | [age](#) | [aimChatID](#) | [based_near](#) | [birthday](#) | [currentProject](#) | [depiction](#) | [depicts](#) | [dnaChecksum](#) | [familyName](#) | [family_name](#) | [firstName](#) | [focus](#) | [fundedBy](#) | [geekcode](#) | [gender](#) | [givenName](#) | [givenname](#) | [holdsAccount](#) | [homepage](#) | [icqChatID](#) | [img](#) | [interest](#) | [isPrimaryTopicOf](#) | [jabberID](#) | [knows](#) | [lastName](#) | [logo](#) | [made](#) | [maker](#) | [mbox](#) | [mbox_sha1sum](#) | [member](#) | [membershipClass](#) | [msnChatID](#) | [myersBriggs](#) | [name](#) | [nick](#) | [openid](#) | [page](#) | [pastProject](#) | [phone](#) | [plan](#) | [primaryTopic](#) | [publications](#) | [schoolHomepage](#) | [sha1](#) | [skypeID](#) | [status](#) | [surname](#) | [theme](#) | [thumbnail](#) | [tipjar](#) | [title](#) | [topic](#) | [topic_interest](#) | [weblog](#) | [workInfoHomepage](#) | [workplaceHomepage](#) | [yahooChatID](#) |

Classes and Properties (full detail)

Classes

Class: foaf:Agent

Agent - An agent (eg. person, group, software or physical artifact).

Status: [stable](#)

Properties include: [weblog](#) [icqChatID](#) [msnChatID](#) [account](#) [age](#) [mbox](#) [yahooChatID](#) [tipjar](#) [jabberID](#) [status](#) [openid](#) [gender](#) [interest](#) [holdsAccount](#) [topic_interest](#) [aimChatID](#) [birthday](#) [made](#) [skypeID](#) [mbox_sha1sum](#)

Used with: [member](#) [maker](#)

Has Subclass [Organization](#) [Group](#) [Person](#)

The [Agent](#) class is the class of agents; things that do stuff. A well known sub-class is [Person](#), representing people. Other kinds of agents include [Organization](#) and [Group](#).

The [Agent](#) class is useful in a few places in FOAF where [Person](#) would have been overly specific. For example, the IM chat ID properties such as `jabberID` are typically associated with people, but sometimes belong to software bots.

[#] [wiki] [back to top]

Class: foaf:Group

Group - A class of Agents.

Status: stable

Properties include: [member](#)

Subclass Of [Agent](#)

The [Group](#) class represents a collection of individual agents (and may itself play the role of a [Agent](#), ie. something that can perform actions).

This concept is intentionally quite broad, covering informal and ad-hoc groups, long-lived communities, organizational groups within a workplace, etc. Some such groups may have associated characteristics which could be captured in RDF (perhaps a [homepage](#), [name](#), mailing list etc.).

While a [Group](#) has the characteristics of a [Agent](#), it is also associated with a number of other [Agents](#) (typically people) who constitute the [Group](#). FOAF provides a mechanism, the [membershipClass](#) property, which relates a [Group](#) to a sub-class of the class [Agent](#) who are members of the group. This is a little complicated, but allows us to make group membership rules explicit.

The markup (shown below) for defining a group is both complex and powerful. It allows group membership rules to match against any RDF-describable characteristics of the potential group members. As FOAF and similar vocabularies become more expressive in their ability to describe individuals, the [Group](#) mechanism for categorising them into groups also becomes more powerful.

While the formal description of membership criteria for a [Group](#) may be complex, the basic mechanism for saying that someone is in a [Group](#) is very simple. We simply use a [member](#) property of the [Group](#) to indicate the agents that are members of the group. For example:

```
<foaf:Group>
  <foaf:name>ILRT staff</foaf:name>
  <foaf:member>
    <foaf:Person>
      <foaf:name>Martin Poulter</foaf:name>
      <foaf:homepage
rdf:resource="http://www.ilrt.bris.ac.uk/aboutus/staff/staffprofile/?se
arch=plmlp"/>
      <foaf:workplaceHomepage rdf:resource="http://www.ilrt.bris.ac.uk/">
    </foaf:Person>
  </foaf:member>
</foaf:Group>
```

Behind the scenes, further RDF statements can be used to express the rules for being a member of this group. End-users of FOAF need not pay attention to these details.

Here is an example. We define a [Group](#) representing those people who are ILRT staff members (ILRT is a department at the University of Bristol). The [membershipClass](#) property connects the group (conceived of as a social entity and agent in its own right) with the class definition for those people who constitute it. In this case, the rule is that all group members are in the ILRTStaffPerson class, which is in turn populated by all those things that are a [Person](#) and which have a [workplaceHomepage](#) of <http://www.ilrt.bris.ac.uk/>. This is typical: FOAF groups are created by specifying a sub-class of [Agent](#) (in fact usually this will be a sub-class of [Person](#)), and giving criteria for which things fall in or out of the sub-class. For this, we use the `owl:onProperty` and `owl:hasValue` properties, indicating the property/value pairs which must be true of matching agents.

```
<!-- here we see a FOAF group described.
      each foaf group may be associated with an OWL definition
      specifying the class of agents that constitute the group's
membership -->
<foaf:Group>
  <foaf:name>ILRT staff</foaf:name>
  <foaf:membershipClass>
    <owl:Class
rdf:about="http://ilrt.example.com/groups#ILRTStaffPerson">
  <rdfs:subClassOf rdf:resource="http://xmlns.com/foaf/0.1/Person"/>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty
rdf:resource="http://xmlns.com/foaf/0.1/workplaceHomepage"/>
      <owl:hasValue rdf:resource="http://www.ilrt.bris.ac.uk/">
    </owl:Restriction>
  </rdfs:subClassOf>
  </owl:Class>
</foaf:membershipClass>
</foaf:Group>
```

Note that while these example OWL rules for being in the `eg:ILRTStaffPerson` class are based on a [Person](#) having a particular [workplaceHomepage](#), this places no obligations on the authors of actual FOAF documents to include this information. If the information *is* included, then generic OWL tools may infer that some person is an `eg:ILRTStaffPerson`. To go the extra step and infer that some `eg:ILRTStaffPerson` is a [member](#) of the group whose [name](#) is "ILRT staff", tools will need some knowledge of the way FOAF deals with groups. In other words, generic OWL technology gets us most of the way, but the full [Group](#) machinery requires extra work for implementors.

The current design names the relationship as pointing *from* the group, to the member. This is convenient when writing XML/RDF that encloses the members within markup that describes the group. Alternate representations of the same content are allowed in RDF, so you can write claims about the Person and the Group without having to nest either description inside the other. For (brief) example:

```
<foaf:Group>
  <foaf:member rdf:nodeID="martin"/>
  <!-- more about the group here -->
</foaf:Group>
<foaf:Person rdf:nodeID="martin">
  <!-- more about martin here -->
</foaf:Person>
```

There is a FOAF [issue tracker](#) associated with this FOAF term. A design goal is to make the most of W3C's [OWL](#) language for representing group-membership criteria, while also making it easy to leverage existing groups and datasets available online (eg. buddylists, mailing list membership lists etc). Feedback on the current design is solicited! Should we consider using SPARQL queries instead, for example?

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Class: foaf:Organization

Organization - An organization.

Status: stable

Subclass Of [Agent](#)

Disjoint With: [Person](#) [Document](#)

The [Organization](#) class represents a kind of [Agent](#) corresponding to social institutions such as companies, societies etc.

This is a more 'solid' class than [Group](#), which allows for more ad-hoc collections of individuals. These terms, like the corresponding natural language concepts, have some overlap, but different emphasis.

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Class: foaf:Person

Person - A person.

Status: stable

Properties include: [myersBriggs](#) [familyName](#) [publications](#) [lastName](#) [family_name](#) [firstName](#) [currentProject](#) [surname](#) [knows](#) [workInfoHomepage](#) [pastProject](#) [geekcode](#) [schoolHomepage](#) [workplaceHomepage](#) [img](#) [plan](#)

Used with: [knows](#)

Subclass Of [Agent](#) [Spatial Thing](#) [Person](#)

**Disjoint
With:** [Organization](#) [Project](#)

The [Person](#) class represents people. Something is a [Person](#) if it is a person. We don't nitpick about whether they're alive, dead, real, or imaginary. The [Person](#) class is a sub-class of the [Agent](#) class, since all people are considered 'agents' in FOAF.

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Class: foaf:Document

Document - A document.

Status: testing

**Properties
include:** [topic](#) [sha1](#) [primaryTopic](#)

Used with: [weblog](#) [openid](#) [tipjar](#) [accountServiceHomepage](#) [isPrimaryTopicOf](#)
[workplaceHomepage](#) [homepage](#) [interest](#) [workInfoHomepage](#) [page](#)
[publications](#) [schoolHomepage](#)

Has Subclass [PersonalProfileDocument](#) [Image](#)

**Disjoint
With:** [Organization](#) [Project](#)

The [Document](#) class represents those things which are, broadly conceived, 'documents'.

The [Image](#) class is a sub-class of [Document](#), since all images are documents.

We do not (currently) distinguish precisely between physical and electronic documents, or between copies of a work and the abstraction those copies embody. The relationship between documents and their byte-stream representation needs clarification (see [sha1](#) for related issues).

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Class: foaf:Image

Image - An image.

Status: testing
Properties include: [thumbnail](#) [depicts](#)
Used with: [thumbnail](#) [depiction](#) [img](#)
Subclass Of [Document](#)

The class [Image](#) is a sub-class of [Document](#) corresponding to those documents which are images.

Digital images (such as JPEG, PNG, GIF bitmaps, SVG diagrams etc.) are examples of [Image](#).

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Class: foaf:OnlineAccount

Online Account - An online account.

Status: testing
Properties include: [accountServiceHomepage](#) [accountName](#)
Used with: [account](#) [holdsAccount](#)
Subclass Of [Thing](#)
Has Subclass [Online E-commerce Account](#) [Online Gaming Account](#) [Online Chat Account](#)

The [OnlineAccount](#) class represents the provision of some form of online service, by some party (indicated indirectly via a [accountServiceHomepage](#)) to some [Agent](#). The [account](#) property of the agent is used to indicate accounts that are associated with the agent.

See [OnlineChatAccount](#) for an example. Other sub-classes include [OnlineEcommerceAccount](#) and [OnlineGamingAccount](#).

One deployment style for this construct is to use URIs for well-known documents (or other entities) that strongly embody the account-holding relationship; for example, user profile pages on social network sites. This has the advantage of providing URIs that are likely to be easy to link with other information, but means that the instances of this class should not be considered 'accounts' in the abstract or business sense of a 'contract'.

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Class: foaf:PersonalProfileDocument

PersonalProfileDocument - A personal profile RDF document.

Status: testing

Subclass Of [Document](#)

The [PersonalProfileDocument](#) class represents those things that are a [Document](#), and that use RDF to describe properties of the person who is the [maker](#) of the document. There is just one [Person](#) described in the document, ie. the person who [made](#) it and who will be its [primaryTopic](#).

The [PersonalProfileDocument](#) class, and FOAF's associated conventions for describing it, captures an important deployment pattern for the FOAF vocabulary. FOAF is very often used in public RDF documents made available through the Web. There is a colloquial notion that these "FOAF files" are often *somebody's* FOAF file. Through [PersonalProfileDocument](#) we provide a machine-readable expression of this concept, providing a basis for FOAF documents to make claims about their maker and topic.

When describing a [PersonalProfileDocument](#) it is typical (and useful) to describe its associated [Person](#) using the [maker](#) property. Anything that is a [Person](#) and that is the [maker](#) of some [PersonalProfileDocument](#) will be the [primaryTopic](#) of that [Document](#). Although this can be inferred, it is often helpful to include this information explicitly within the [PersonalProfileDocument](#).

For example, here is a fragment of a personal profile document which describes its author explicitly:

```
<foaf:Person rdf:nodeID="p1">
  <foaf:name>Dan Brickley</foaf:name>
  <foaf:homepage rdf:resource="http://danbri.org/" />
  <!-- etc... -->
</foaf:Person>

<foaf:PersonalProfileDocument rdf:about="">
  <foaf:maker rdf:nodeID="p1" />
  <foaf:primaryTopic rdf:nodeID="p1" />
</foaf:PersonalProfileDocument>
```

Note that a [PersonalProfileDocument](#) will have some representation as RDF. Typically this will be in W3C's RDF/XML syntax, however we leave open the possibility for the use of other notations, or representational conventions including automated transformations from HTML ([GRDDL](#) spec for one such technique).

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Class: foaf:Project

Project - A project (a collective endeavour of some kind).

Status: testing

Disjoint With: [Person](#) [Document](#)

The [Project](#) class represents the class of things that are 'projects'. These may be formal or informal, collective or individual. It is often useful to indicate the [homepage](#) of a [Project](#).

Further work is needed to specify the connections between this class and the FOAF properties [currentProject](#) and [pastProject](#).

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Class: foaf:LabelProperty

Label Property - A foaf:LabelProperty is any RDF property with textual values that serve as labels.

Status: unstable

A [LabelProperty](#) is any RDF property with textual values that serve as labels.

Any property that is a [LabelProperty](#) is effectively a sub-property of rdfs:label. This utility class provides an alternate means of expressing this idea, in a way that may help with OWL 2.0 DL compatibility.

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Class: foaf:OnlineChatAccount

Online Chat Account - An online chat account.

Status: unstable

Subclass Of [Online Account](#)

A [OnlineChatAccount](#) is a [OnlineAccount](#) devoted to chat / instant messaging. The account may offer other services too; FOAF's sub-classes of [OnlineAccount](#) are not mutually disjoint.

This is a generalization of the FOAF Chat ID properties, [jabberID](#), [aimChatID](#), [skypeID](#), [msnChatID](#), [icqChatID](#) and [yahooChatID](#).

Unlike those simple properties, [OnlineAccount](#) and associated FOAF terms allows us to describe a great variety of online accounts, without having to anticipate them in the FOAF vocabulary.

For example, here is a description of an IRC chat account, specific to the Freenode IRC network:

```
<foaf:Person>
  <foaf:name>Dan Brickley</foaf:name>
  <foaf:account>
    <foaf:OnlineAccount>
      <rdf:type
rdf:resource="http://xmlns.com/foaf/0.1/OnlineChatAccount"/>
      <foaf:accountServiceHomepage
        rdf:resource="http://www.freenode.net/">
      <foaf:accountName>danbri</foaf:accountName>
    </foaf:OnlineAccount>
  </foaf:account>
</foaf:Person>
```

Note that it may be impolite to carelessly reveal someone else's chat identifier (which might also serve as an indicate of email address) As with email, there are privacy and anti-SPAM considerations. FOAF does not currently provide a way to represent an obfuscated chat ID (ie. there is no parallel to the [mbox](#) / [mbox_shasum](#) mapping).

In addition to the generic [OnlineAccount](#) and [OnlineChatAccount](#) mechanisms, FOAF also provides several convenience chat ID properties ([jabberID](#), [aimChatID](#), [icqChatID](#), [msnChatID](#), [yahooChatID](#), [skypeID](#)). These serve as a shorthand for some common cases; their use may not always be appropriate.

We should specify some mappings between the abbreviated and full representations of [Jabber](#), [AIM](#), [MSN](#), [ICQ](#), [Yahoo!](#) and [MSN](#) chat accounts. This has been done for [skypeID](#). This requires us to identify an appropriate [accountServiceHomepage](#) for each. If we wanted to make the [OnlineAccount](#) mechanism even more generic, we could invent a relationship that holds between a [OnlineAccount](#) instance and a convenience property. To continue the example above, we could describe how [Freenode](#) could define a property 'fn:freenodeChatID' corresponding to Freenode online accounts.

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Class: foaf:OnlineEcommerceAccount

Online E-commerce Account - An online e-commerce account.

Status: unstable

Subclass Of [Online Account](#)

A [OnlineEcommerceAccount](#) is a [OnlineAccount](#) devoted to buying and/or selling of goods, services etc. Examples include [Amazon](#), [eBay](#), [PayPal](#), [thinkgeek](#), etc.

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Class: foaf:OnlineGamingAccount

Online Gaming Account - An online gaming account.

Status: unstable

Subclass Of [Online Account](#)

A [OnlineGamingAccount](#) is a [OnlineAccount](#) devoted to online gaming.

Examples might include [EverQuest](#), [Xbox live](#), [Neverwinter Nights](#), etc., as well as older text-based systems (MOOs, MUDs and suchlike).

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Properties

Property: foaf:homepage

homepage - A homepage for some thing.

Status: stable

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Document](#)

Inverse Functional Property

The [homepage](#) property relates something to a homepage about it.

Many kinds of things have homepages. FOAF allows a thing to have multiple homepages, but constrains [homepage](#) so that there can be only one thing that has any particular homepage.

A 'homepage' in this sense is a public Web document, typically but not necessarily available in HTML format. The page has as a [topic](#) the thing whose homepage it is. The homepage is usually controlled, edited or published by the thing whose homepage it is; as such one might look to a homepage for information on its owner from its owner. This works for people, companies, organisations etc.

The [homepage](#) property is a sub-property of the more general [page](#) property for relating a thing to a page about that thing. See also [topic](#), the inverse of the [page](#) property.

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Property: foaf:isPrimaryTopicOf

is primary topic of - A document that this thing is the primary topic of.

Status: stable

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Document](#)

Inverse Functional Property

The [isPrimaryTopicOf](#) property relates something to a document that is mainly about it.

The [isPrimaryTopicOf](#) property is *inverse functional*: for any document that is the value of this property, there is at most one thing in the world that is the primary topic of that document. This is useful, as it allows for data merging, as described in the documentation for its inverse, [primaryTopic](#).

[page](#) is a super-property of [isPrimaryTopicOf](#). The change of terminology between the two property names reflects the utility of 'primaryTopic' and its inverse when identifying things. Anything that has an [isPrimaryTopicOf](#) relation to some document X, also has a [page](#) relationship to it.

Note that [homepage](#), is a sub-property of both [page](#) and [isPrimaryTopicOf](#). The awkwardly named [isPrimaryTopicOf](#) is less specific, and can be used with any document that is primarily about the thing of interest (ie. not just on homepages).

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Property: foaf:knows

knows - A person known by this person (indicating some level of reciprocated interaction between the parties).

Status: stable

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Person](#)

The [knows](#) property relates a [Person](#) to another [Person](#) that he or she knows.

We take a broad view of 'knows', but do require some form of reciprocated interaction (ie. stalkers need not apply). Since social attitudes and conventions on this topic vary greatly between communities, counties and cultures, it is not appropriate for FOAF to be overly-specific here.

If someone [knows](#) a person, it would be usual for the relation to be reciprocated. However this doesn't mean that there is any obligation for either party to publish FOAF describing this relationship. A [knows](#) relationship does not imply friendship, endorsement, or that a face-to-face meeting has taken place: phone, fax, email, and smoke signals are all perfectly acceptable ways of communicating with people you know.

You probably know hundreds of people, yet might only list a few in your public FOAF file. That's OK. Or you might list them all. It is perfectly fine to have a FOAF file and not list anyone else in it at all. This illustrates the Semantic Web principle of partial description: RDF documents rarely describe the entire picture. There is always more to be said, more information living elsewhere in the Web (or in our heads...).

Since [knows](#) is vague by design, it may be suprising that it has uses. Typically these involve combining other RDF properties. For example, an application might look at properties of each [weblog](#) that was [made](#) by someone you "[knows](#)". Or check the newsfeed of the online photo archive for each of these people, to show you recent photos taken by people you know.

To provide additional levels of representation beyond mere 'knows', FOAF applications can do several things.

They can use more precise relationships than [knows](#) to relate people to people. The original FOAF design included two of these ('knowsWell', 'friend') which we removed because they were somewhat *awkward* to actually use, bringing an inapropriate air of

precision to an intrinsically vague concept. Other extensions have been proposed, including Eric Vitiello's [Relationship module](#) for FOAF.

In addition to using more specialised inter-personal relationship types (eg `rel:acquaintanceOf` etc) it is often just as good to use RDF descriptions of the states of affairs which imply particular kinds of relationship. So for example, two people who have the same value for their [workplaceHomepage](#) property are typically colleagues. We don't (currently) clutter FOAF up with these extra relationships, but the facts can be written in FOAF nevertheless. Similarly, if there exists a [Document](#) that has two people listed as its [makers](#), then they are probably collaborators of some kind. Or if two people appear in 100s of digital photos together, there's a good chance they're friends and/or colleagues.

So FOAF is quite pluralistic in its approach to representing relationships between people. FOAF is built on top of a general purpose machine language for representing relationships (ie. RDF), so is quite capable of representing any kinds of relationship we care to add. The problems are generally social rather than technical; deciding on appropriate ways of describing these interconnections is a subtle art.

Perhaps the most important use of [knows](#) is, alongside the `rdfs:seeAlso` property, to connect FOAF files together. Taken alone, a FOAF file is somewhat dull. But linked in with 1000s of other FOAF files it becomes more interesting, with each FOAF file saying a little more about people, places, documents, things... By mentioning other people (via [knows](#) or other relationships), and by providing an `rdfs:seeAlso` link to their FOAF file, you can make it easy for FOAF indexing tools ('[scutters](#)') to find your FOAF and the FOAF of the people you've mentioned. And the FOAF of the people they mention, and so on. This makes it possible to build FOAF aggregators without the need for a centrally managed directory of FOAF files...

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Property: foaf:made

made - Something that was made by this agent.

Status: stable

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Thing](#)

The [made](#) property relates a [Agent](#) to something [made](#) by it. As such it is an inverse of the [maker](#) property, which relates a thing to something that made it. See [made](#) for more details on the relationship between these FOAF terms and related Dublin Core vocabulary.

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Property: foaf:maker

maker - An agent that made this thing.

Status: stable

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Agent](#)

The [maker](#) property relates something to a [Agent](#) that [made](#) it. As such it is an inverse of the [made](#) property.

The [name](#) (or other `rdfs:label`) of the [maker](#) of something can be described as the `dc:creator` of that thing.

For example, if the thing named by the URI `http://danbri.org/` has a [maker](#) that is a [Person](#) whose [name](#) is 'Dan Brickley', we can conclude that `http://danbri.org/` has a `dc:creator` of 'Dan Brickley'.

FOAF descriptions are encouraged to use `dc:creator` only for simple textual names, and to use [maker](#) to indicate creators, rather than risk confusing creators with their names. This follows most Dublin Core usage. See [UsingDublinCoreCreator](#) for details.

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Property: foaf:mbox

personal mailbox - A personal mailbox, ie. an Internet mailbox associated with exactly one owner, the first owner of this mailbox. This is a 'static inverse functional property', in that there is (across time and change) at most one individual that ever has any particular value for foaf:mbox.

Status: stable

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Thing](#)

Inverse Functional Property

The [mbox](#) property is a relationship between the owner of a mailbox and a mailbox. These are typically identified using the mailto: URI scheme (see [RFC 2368](#)).

Note that there are many mailboxes (eg. shared ones) which are not the [mbox](#) of anyone. Furthermore, a person can have multiple [mbox](#) properties.

In FOAF, we often see [mbox](#) used as an indirect way of identifying its owner. This works even if the mailbox is itself out of service (eg. 10 years old), since the property is defined in terms of its primary owner, and doesn't require the mailbox to actually be being used for anything.

Many people are wary of sharing information about their mailbox addresses in public. To address such concerns whilst continuing the FOAF convention of indirectly identifying people by referring to widely known properties, FOAF also provides the [mbox_sha1sum](#) mechanism, which is a relationship between a person and the value you get from passing a mailbox URI to the SHA1 mathematical function.

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Property: foaf:member

member - Indicates a member of a Group

Status: stable

Domain: having this property implies being a [Group](#)

Range: every value of this property is a [Agent](#)

The [member](#) property relates a [Group](#) to a [Agent](#) that is a member of that group.

See [Group](#) for details and examples.

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Property: foaf:primaryTopic

primary topic - The primary topic of some page or document.

Status: stable

Domain: having this property implies being a [Document](#)

Range: every value of this property is a [Thing](#)

Functional Property

The [primaryTopic](#) property relates a document to the main thing that the document is about.

The [primaryTopic](#) property is *functional*: for any document it applies to, it can have at most one value. This is useful, as it allows for data merging. In many cases it may be difficult for third parties to determine the primary topic of a document, but in a useful number of cases (eg. descriptions of movies, restaurants, politicians, ...) it should be reasonably obvious. Documents are very often the most authoritative source of information about their own primary topics, although this cannot be guaranteed since documents cannot be assumed to be accurate, honest etc.

It is an inverse of the [isPrimaryTopicOf](#) property, which relates a thing to a document *primarily* about that thing. The choice between these two properties is purely pragmatic. When describing documents, we use [primaryTopic](#) former to point to the things they're about. When describing things (people etc.), it is useful to be able to directly cite documents which have those things as their main topic - so we use [isPrimaryTopicOf](#). In this way, Web sites such as [Wikipedia](#) or [NNDB](#) can provide indirect identification for the things they have descriptions of.

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Property: foaf:account

account - Indicates an account held by this agent.

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Online Account](#)

The [account](#) property relates a [Agent](#) to an [OnlineAccount](#) for which they are the sole account holder. See [OnlineAccount](#) for usage details.

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Property: foaf:accountName

account name - Indicates the name (identifier) associated with this online account.

Status: testing

Domain: having this property implies being a [Online Account](#)

The [accountName](#) property of a [OnlineAccount](#) is a textual representation of the account name (unique ID) associated with that account.

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Property: foaf:accountServiceHomepage

account service homepage - Indicates a homepage of the service provide for this online account.

Status: testing

Domain: having this property implies being a [Online Account](#)

Range: every value of this property is a [Document](#)

The [accountServiceHomepage](#) property indicates a relationship between a [OnlineAccount](#) and the homepage of the supporting service provider.

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Property: foaf:aimChatID

AIM chat ID - An AIM chat ID

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

The [aimChatID](#) property relates a [Agent](#) to a textual identifier ('screenname') assigned to them in the AOL Instant Messenger (AIM) system. See AOL's [AIM](#) site for more details of AIM and AIM screennames. The [iChat](#) tools from [Apple](#) also make use of AIM identifiers.

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:based_near

based near - A location that something is based near, for some broadly human notion of near.

Status: testing

Domain: having this property implies being a [Spatial Thing](#)

Range: every value of this property is a [Spatial Thing](#)

The [based_near](#) relationship relates two "spatial things" (anything that can *be somewhere*), the latter typically described using the geo:lat / geo:long [geo-positioning vocabulary](#) (See [GeoInfo](#) in the W3C semweb wiki for details). This allows us to say describe the typical latitude and longitude of, say, a Person (people are spatial things - they can be places) without implying that a precise location has been given.

We do not say much about what 'near' means in this context; it is a 'rough and ready' concept. For a more precise treatment, see [GeoOnion vocab](#) design discussions, which are aiming to produce a more sophisticated vocabulary for such purposes.

FOAF files often make use of the `contact:nearestAirport` property. This illustrates the distinction between FOAF documents (which may make claims using *any* RDF vocabulary) and the core FOAF vocabulary defined by this specification. For further reading on the use of `nearestAirport` see [UsingContactNearestAirport](#) in the FOAF wiki.

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Property: foaf:currentProject

current project - A current project this person works on.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Thing](#)

A [currentProject](#) relates a [Person](#) to a [Document](#) indicating some collaborative or individual undertaking. This relationship indicates that the [Person](#) has some active role in the project, such as development, coordination, or support.

When a [Person](#) is no longer involved with a project, or perhaps is inactive for some time, the relationship becomes a [pastProject](#).

If the [Person](#) has stopped working on a project because it has been completed (successfully or otherwise), [pastProject](#) is applicable. In general, [currentProject](#) is used to indicate someone's current efforts (and implied interests, concerns etc.), while [pastProject](#) describes what they've previously been doing.

Note that this property requires further work. There has been confusion about whether it points to a thing (eg. something you've made; a homepage for a project, ie. a [Document](#) or to instances of the class [Project](#), which might themselves have a [homepage](#). In practice, it seems to have been used in a similar way to [interest](#), referencing homepages of ongoing projects.

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Property: foaf:depiction

depiction - A depiction of some thing.

Status: testing

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Image](#)

The [depiction](#) property is a relationship between a thing and an [Image](#) that depicts it. As such it is an inverse of the [depicts](#) relationship.

A common use of [depiction](#) (and [depicts](#)) is to indicate the contents of a digital image, for example the people or objects represented in an online photo gallery.

Extensions to this basic idea include '[Co-Depiction](#)' (social networks as evidenced in photos), as well as richer photo metadata through the mechanism of using SVG paths to indicate the *regions* of an image which depict some particular thing. See '[Annotating Images With SVG](#)' for tools and details.

The basic notion of 'depiction' could also be extended to deal with multimedia content (video clips, audio), or refined to deal with corner cases, such as pictures of pictures etc.

The [depiction](#) property is a super-property of the more specific property [img](#), which is used more sparingly. You stand in a [depiction](#) relation to *any* [Image](#) that depicts you, whereas [img](#) is typically used to indicate a few images that are particularly representative.

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Property: foaf:depicts

depicts - A thing depicted in this representation.

Status: testing

Domain: having this property implies being a [Image](#)

Range: every value of this property is a [Thing](#)

The [depicts](#) property is a relationship between a [Image](#) and something that the image depicts. As such it is an inverse of the [depiction](#) relationship. See [depiction](#) for further notes.

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Property: foaf:familyName

familyName - The family name of some person.

Status: testing

Domain: having this property implies being a [Person](#)

The [familyName](#) property is provided (alongside [givenName](#)) for use when describing parts of people's names. Although these concepts do not capture the full range of personal naming styles found world-wide, they are commonly used and have some value.

There is also a simple [name](#) property.

Support is also provided for the more archaic and culturally varying terminology of [firstName](#) and [lastName](#).

See the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

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Property: foaf:firstName

firstName - The first name of a person.

Status: testing

Domain: having this property implies being a [Person](#)

The [firstName](#) property is provided (alongside [lastName](#)) as a mechanism to support legacy data that cannot be easily interpreted in terms of the (otherwise preferred) [familyName](#) and [givenName](#) properties. The concepts of 'first' and 'last' names do not work well across cultural and linguistic boundaries; however they are widely used in addressbooks and databases.

See the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

There is also a simple [name](#) property.

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Property: foaf:focus

focus - The underlying or 'focal' entity associated with some SKOS-described concept.

Status: testing

Domain: having this property implies being a [Concept](#)

Range: every value of this property is a [Thing](#)

The [focus](#) property relates a conceptualisation of something to the thing itself. Specifically, it is designed for use with W3C's [SKOS](#) vocabulary, to help indicate specific individual things (typically people, places, artifacts) that are mentioned in different SKOS schemes (eg. thesauri).

W3C SKOS is based around collections of linked 'concepts', which indicate topics, subject areas and categories. [In SKOS](#), properties of a skos:Concept are properties of the conceptualization (see [2005 discussion](#) for details); for example administrative and record-keeping metadata. Two schemes might have an entry for the same individual; the foaf:focus property can be used to indicate the thing in they world that they both focus on. Many SKOS concepts don't work this way; broad topical areas and subject categories don't typically correspond to some particular entity. However, in cases when they do, it is useful to link both subject-oriented and thing-oriented information via foaf:focus.

FOAF's focus property works alongside its other topic-oriented constructs: [topic](#), [primaryTopic](#) are used when talking about the topical emphasis of a document. The notion of [primaryTopic](#) is particularly important in FOAF as it provides an indirect

mechanism for identifying things indirectly. A similar approach is explored by the [TDB URI scheme](#). FOAF includes topic-oriented functionality to address its [original goals](#) of linking people to information, as well as to other people, through the use of linked information.

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Property: foaf:gender

gender - The gender of this Agent (typically but not necessarily 'male' or 'female').

Status: testing

Domain: having this property implies being a [Agent](#)

Functional Property

The [gender](#) property relates a [Agent](#) (typically a [Person](#)) to a string representing its gender. In most cases the value will be the string 'female' or 'male' (in lowercase without surrounding quotes or spaces). Like all FOAF properties, there is in general no requirement to use [gender](#) in any particular document or description. Values other than 'male' and 'female' may be used, but are not enumerated here. The [gender](#) mechanism is not intended to capture the full variety of biological, social and sexual concepts associated with the word 'gender'.

Anything that has a [gender](#) property will be some kind of [Agent](#). However there are kinds of [Agent](#) to which the concept of gender isn't applicable (eg. a [Group](#)). FOAF does not currently include a class corresponding directly to "the type of thing that has a gender". At any point in time, a [Agent](#) has at most one value for [gender](#). FOAF does not treat [gender](#) as a *static* property; the same individual may have different values for this property at different times.

Note that FOAF's notion of gender isn't defined biologically or anatomically - this would be tricky since we have a broad notion that applies to all [Agents](#) (including robots - eg. Bender from Futurama is 'male'). As stressed above, FOAF's notion of gender doesn't attempt to encompass the full range of concepts associated with human gender, biology and sexuality. As such it is a (perhaps awkward) compromise between the clinical and the social/psychological. In general, a person will be the best authority on their [gender](#). Feedback on this design is particularly welcome (via the FOAF mailing list, [foaf-dev](#)). We have tried to be respectful of diversity without attempting to catalogue or enumerate that diversity.

This may also be a good point for a periodic reminder: as with all FOAF properties, documents that use '[gender](#)' will on occasion be innacurate, misleading or outright false.

FOAF, like all open means of communication, supports *lying*. Application authors using FOAF data should always be cautious in their presentation of unverified information, but be particularly sensitive to issues and risks surrounding sex and gender (including privacy and personal safety concerns). Designers of FOAF-based user interfaces should be careful to allow users to omit [gender](#) when describing themselves and others, and to allow at least for values other than 'male' and 'female' as options. Users of information conveyed via FOAF (as via information conveyed through mobile phone text messages, email, Internet chat, HTML pages etc.) should be skeptical of unverified information.

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Property: foaf:givenName

Given name - The given name of some person.

Status: testing

The [givenName](#) property is provided (alongside [familyName](#)) for use when describing parts of people's names. Although these concepts do not capture the full range of personal naming styles found world-wide, they are commonly used and have some value.

There is also a simple [name](#) property.

Support is also provided for the more archaic and culturally varying terminology of [firstName](#) and [lastName](#).

See the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

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Property: foaf:icqChatID

ICQ chat ID - An ICQ chat ID

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

The [icqChatID](#) property relates a [Agent](#) to a textual identifier assigned to them in the ICQ Chat system. See the [icq chat](#) site for more details of the 'icq' service. Their "[What is ICQ?](#)" document provides a basic overview, while their "[About Us](#)" page notes that ICQ has been acquired by AOL. Despite the relationship with AOL, ICQ is at the time of writing maintained as a separate identity from the AIM brand (see [aimChatID](#)).

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:img

image - An image that can be used to represent some thing (ie. those depictions which are particularly representative of something, eg. one's photo on a homepage).

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Image](#)

The [img](#) property relates a [Person](#) to a [Image](#) that represents them. Unlike its super-property [depiction](#), we only use [img](#) when an image is particularly representative of some person. The analogy is with the image(s) that might appear on someone's homepage, rather than happen to appear somewhere in their photo album.

Unlike the more general [depiction](#) property (and its inverse, [depicts](#)), the [img](#) property is only used with representations of people (ie. instances of [Person](#)). So you can't use it to find pictures of cats, dogs etc. The basic idea is to have a term whose use is more restricted than [depiction](#) so we can have a useful way of picking out a reasonable image to represent someone. FOAF defines [img](#) as a sub-property of [depiction](#), which means that the latter relationship is implied whenever two things are related by the former.

Note that [img](#) does not have any restrictions on the dimensions, colour depth, format etc of the [Image](#) it references.

Terminology: note that [img](#) is a property (ie. relationship), and that `code:Image` is a similarly named class (ie. category, a type of thing). It might have been more helpful to call [img](#) 'mugshot' or similar; instead it is named by analogy to the HTML IMG element.

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Property: foaf:interest

interest - A page about a topic of interest to this person.

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Document](#)

The [interest](#) property represents an interest of a [Agent](#), through indicating a [Document](#) whose [topic](#)(s) broadly characterises that interest.

For example, we might claim that a person or group has an interest in RDF by saying they stand in a [interest](#) relationship to the [RDF](#) home page. Loosely, such RDF would be saying "*this agent is interested in the topic of this page*".

Uses of [interest](#) include a variety of filtering and resource discovery applications. It could be used, for example, to help find answers to questions such as "Find me members of this organisation with an interest in XML who have also contributed to [CPAN](#)".

This approach to characterising interests is intended to compliment other mechanisms (such as the use of controlled vocabulary). It allows us to use a widely known set of unique identifiers (Web page URIs) with minimal pre-coordination. Since URIs have a controlled syntax, this makes data merging much easier than the use of free-text characterisations of interest.

Note that interest does not imply expertise, and that this FOAF term provides no support for characterising levels of interest: passing fads and lifelong quests are both examples of someone's [interest](#). Describing interests in full is a complex undertaking; [interest](#) provides one basic component of FOAF's approach to these problems.

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Property: foaf:jabberID

jabber ID - A jabber ID for something.

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

The [jabberID](#) property relates a [Agent](#) to a textual identifier assigned to them in the [Jabber](#) messaging system. See the [Jabber](#) site for more information about the Jabber protocols and tools.

Jabber, unlike several other online messaging systems, is based on an open, publically documented protocol specification, and has a variety of open source implementations. Jabber IDs can be assigned to a variety of kinds of thing, including software 'bots', chat rooms etc. For the purposes of FOAF, these are all considered to be kinds of [Agent](#) (ie. things that *do* stuff). The uses of Jabber go beyond simple IM chat applications. The [jabberID](#) property is provided as a basic hook to help support RDF description of Jabber users and services.

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:lastName

lastName - The last name of a person.

Status: testing

Domain: having this property implies being a [Person](#)

The [lastName](#) property is provided (alongside [firstName](#)) as a mechanism to support legacy data that cannot be easily interpreted in terms of the (otherwise preferred) [familyName](#) and [givenName](#) properties. The concepts of 'first' and 'last' names do not work well across cultural and linguistic boundaries; however they are widely used in addressbooks and databases.

See the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

There is also a simple [name](#) property.

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Property: foaf:logo

logo - A logo representing some thing.

Status: testing

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Thing](#)

Inverse Functional Property

The [logo](#) property is used to indicate a graphical logo of some kind. *It is probably underspecified...*

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Property: foaf:mbox_sha1sum

sha1sum of a personal mailbox URI name - The sha1sum of the URI of an Internet mailbox associated with exactly one owner, the first owner of the mailbox.

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

A [mbox_sha1sum](#) of a [Person](#) is a textual representation of the result of applying the SHA1 mathematical functional to a 'mailto:' identifier (URI) for an Internet mailbox that they stand in a [mbox](#) relationship to.

In other words, if you have a mailbox ([mbox](#)) but don't want to reveal its address, you can take that address and generate a [mbox_sha1sum](#) representation of it. Just as a [mbox](#) can be used as an indirect identifier for its owner, we can do the same with [mbox_sha1sum](#) since there is only one [Person](#) with any particular value for that property.

Many FOAF tools use [mbox_sha1sum](#) in preference to exposing mailbox information. This is usually for privacy and SPAM-avoidance reasons. Other relevant techniques include the use of PGP encryption (see [Edd Dumbill's documentation](#)) and the use of [FOAF-based whitelists](#) for mail filtering.

Code examples for SHA1 in C#, Java, PHP, Perl and Python can be found [in Sam Ruby's weblog entry](#). Remember to include the 'mailto:' prefix, but no trailing whitespace, when computing a [mbox_sha1sum](#) property.

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Property: foaf:msnChatID

MSN chat ID - An MSN chat ID

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

The [msnChatID](#) property relates a [Agent](#) to a textual identifier assigned to them in the Microsoft online chat system originally known as 'MSN', and now [Windows Live Messenger](#). See the [Microsoft messenger](#) and [Windows Live ID](#) sites for more details.

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:myersBriggs

myersBriggs - A Myers Briggs (MBTI) personality classification.

Status: testing

Domain: having this property implies being a [Person](#)

The [myersBriggs](#) property represents the Myers Briggs (MBTI) approach to personality taxonomy. It is included in FOAF as an example of a property that takes certain constrained values, and to give some additional detail to the FOAF files of those who choose to include it. The [myersBriggs](#) property applies only to the [Person](#) class; wherever you see it, you can infer it is being applied to a person.

The [myersBriggs](#) property is interesting in that it illustrates how FOAF can serve as a carrier for various kinds of information, without necessarily being committed to any associated worldview. Not everyone will find myersBriggs (or star signs, or blood types, or the four humours) a useful perspective on human behaviour and personality. The inclusion of a Myers Briggs property doesn't indicate that FOAF endorses the underlying theory, any more than the existence of [weblog](#) is an endorsement of soapboxes.

The values for [myersBriggs](#) are the following 16 4-letter textual codes: ESTJ, INFP, ESFP, INTJ, ESFJ, INTP, ENFP, ISTJ, ESTP, INFJ, ENFJ, ISTP, ENTJ, ISFP, ENTP, ISFJ. If multiple of these properties are applicable, they are represented by applying multiple properties to a person.

For further reading on MBTI, see various online sources (eg. [this article](#)). There are various online sites which offer quiz-based tools for determining a person's MBTI classification. The owners of the MBTI trademark have probably not approved of these.

This FOAF property suggests some interesting uses, some of which could perhaps be used to test the claims made by proponents of the MBTI (eg. an analysis of weblog postings filtered by MBTI type). However it should be noted that MBTI FOAF descriptions are self-selecting; MBTI categories may not be uniformly appealing to the people they describe. Further, there is probably a degree of cultural specificity implicit in the assumptions made by many questionnaire-based MBTI tools; the MBTI system may not make sense in cultural settings beyond those it was created for.

See also [Cory Caplinger's summary table](#) or the RDFWeb article, [FOAF Myers Briggs addition](#) for further background and examples.

Note: Myers Briggs Type Indicator and MBTI are registered trademarks of Consulting Psychologists Press Inc. Oxford Psychologists Press Ltd has exclusive rights to the trademark in the UK.

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Property: foaf:name

name - A name for some thing.

Status: testing

Domain: having this property implies being a [Thing](#)

The [name](#) of something is a simple textual string.

XML language tagging may be used to indicate the language of the name. For example:

```
<foaf:name xml:lang="en">Dan Brickley</foaf:name>
```

FOAF provides some other naming constructs. While foaf:name does not explicitly represent name substructure (family vs given etc.) it does provide a basic level of interoperability. See the [issue tracker](#) for status of work on this issue.

The [name](#) property, like all RDF properties with a range of rdfs:Literal, may be used with XMLLiteral datatyped values (multiple [names](#) are acceptable whether they are in the same language or not). XMLLiteral usage is not yet widely adopted. Feedback on this aspect of the FOAF design is particularly welcomed.

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Property: foaf:nick

nickname - A short informal nickname characterising an agent (includes login identifiers, IRC and other chat nicknames).

Status: testing

The [nick](#) property relates a [Person](#) to a short (often abbreviated) nickname, such as those use in IRC chat, online accounts, and computer logins.

This property is necessarily vague, because it does not indicate any particular naming control authority, and so cannot distinguish a person's login from their (possibly various) IRC nicknames or other similar identifiers. However it has some utility, since many people use the same string (or slight variants) across a variety of such environments.

For specific controlled sets of names (relating primarily to Instant Messenger accounts), FOAF provides some convenience properties: [jabberID](#), [aimChatID](#), [msnChatID](#) and [icqChatID](#). Beyond this, the problem of representing such accounts is not peculiar to Instant Messanging, and it is not scalable to attempt to enumerate each naming database as a distinct FOAF property. The [OnlineAccount](#) term (and supporting vocabulary) are provided as a more verbose and more expressive generalisation of these properties.

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Property: foaf:openid

openid - An OpenID for an Agent.

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Document](#)

Inverse Functional Property

A [openid](#) is a property of a [Agent](#) that associates it with a document that can be used as an [indirect identifier](#) in the manner of the [OpenID](#) "Identity URL". As the OpenID 1.1 specification notes, OpenID itself "*does not provide any mechanism to exchange profile*

information, though Consumers of an Identity can learn more about an End User from any public, semantically interesting documents linked thereunder (FOAF, RSS, Atom, vCARD, etc.)". In this way, FOAF and OpenID complement each other; neither provides a stand-alone approach to online "trust", but combined they can address interesting parts of this larger problem space.

The [openid](#) property is "inverse functional", meaning that anything that is the foaf:openid of something, is the [openid](#) of no more than one thing. FOAF is agnostic as to whether there are (according to the relevant OpenID specifications) OpenID URIs that are equally associated with multiple Agents. FOAF offers sub-classes of Agent, ie. [Organization](#) and [Group](#), that allow for such scenarios to be consistent with the notion that any foaf:openid is the foaf:openid of just one [Agent](#).

FOAF does not mandate any particular URI scheme for use as [openid](#) values. The OpenID 1.1 specification includes a [delegation model](#) that is often used to allow a weblog or homepage document to also serve in OpenID authentication via "link rel" HTML markup. This deployment model provides a convenient connection to FOAF, since a similar [technique](#) is used for FOAF autodiscovery in HTML. A single document can, for example, serve both as a homepage and an OpenID identity URL.

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Property: foaf:page

page - A page or document about this thing.

Status: testing

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Document](#)

The [page](#) property relates a thing to a document about that thing.

As such it is an inverse of the [topic](#) property, which relates a document to a thing that the document is about.

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Property: foaf:pastProject

past project - A project this person has previously worked on.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Thing](#)

After a [Person](#) is no longer involved with a [currentProject](#), or has been inactive for some time, a [pastProject](#) relationship can be used. This indicates that the [Person](#) was involved with the described project at one point.

If the [Person](#) has stopped working on a project because it has been completed (successfully or otherwise), [pastProject](#) is applicable. In general, [currentProject](#) is used to indicate someone's current efforts (and implied interests, concerns etc.), while [pastProject](#) describes what they've previously been doing.

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Property: foaf:phone

phone - A phone, specified using fully qualified tel: URI scheme (refs: <http://www.w3.org/Addressing/schemes.html#tel>).

Status: testing

The [phone](#) of something is a phone, typically identified using the tel: URI scheme.

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Property: foaf:plan

plan - A .plan comment, in the tradition of finger and '.plan' files.

Status: testing

Domain: having this property implies being a [Person](#)

The [plan](#) property provides a space for a [Person](#) to hold some arbitrary content that would appear in a traditional '.plan' file. The plan file was stored in a user's home directory on a UNIX machine, and displayed to people when the user was queried with the finger utility.

A plan file could contain anything. Typical uses included brief comments, thoughts, or remarks on what a person had been doing lately. Plan files were also prone to being witty

or simply obscure. Others may be more creative, writing any number of seemingly random compositions in their plan file for people to stumble upon.

See [History of the Finger Protocol](#) by Rajiv Shah for more on this piece of Internet history. The [geekcode](#) property may also be of interest.

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Property: foaf:publications

publications - A link to the publications of this person.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Document](#)

The [publications](#) property indicates a [Document](#) listing (primarily in human-readable form) some publications associated with the [Person](#). Such documents are typically published alongside one's [homepage](#).

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Property: foaf:schoolHomepage

schoolHomepage - A homepage of a school attended by the person.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Document](#)

The `schoolHomepage` property relates a [Person](#) to a [Document](#) that is the [homepage](#) of a School that the person attended.

FOAF does not (currently) define a class for 'School' (if it did, it would probably be as a sub-class of [Organization](#)). The original application area for [schoolHomepage](#) was for 'schools' in the British-English sense; however American-English usage has dominated, and it is now perfectly reasonable to describe Universities, Colleges and post-graduate study using [schoolHomepage](#).

This very basic facility provides a basis for a low-cost, decentralised approach to classmate-reunion and suchlike. Instead of requiring a central database, we can use FOAF to express claims such as 'I studied *here*' simply by mentioning a school's homepage within FOAF files. Given the homepage of a school, it is easy for FOAF aggregators to lookup this property in search of people who attended that school.

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Property: foaf:skypeID

Skype ID - A Skype ID

Status: testing

Domain: having this property implies being a [Agent](#)

The [skype](#) property relates a [Agent](#) to an account name of a Skype account of theirs.

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:thumbnail

thumbnail - A derived thumbnail image.

Status: testing

Domain: having this property implies being a [Image](#)

Range: every value of this property is a [Image](#)

The [thumbnail](#) property is a relationship between a full-size [Image](#) and a smaller, representative [Image](#) that has been derived from it.

It is typical in FOAF to express [img](#) and [depiction](#) relationships in terms of the larger, 'main' (in some sense) image, rather than its thumbnail(s). A [thumbnail](#) might be clipped or otherwise reduced such that it does not depict everything that the full image depicts. Therefore FOAF does not specify that a thumbnail [depicts](#) everything that the image it is derived from depicts. However, FOAF does expect that anything depicted in the thumbnail will also be depicted in the source image.

A [thumbnail](#) is typically small enough that it can be loaded and viewed quickly before a viewer decides to download the larger version. They are often used in online photo gallery applications.

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Property: foaf:tipjar

tipjar - A tipjar document for this agent, describing means for payment and reward.

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Document](#)

The [tipjar](#) property relates an [Agent](#) to a [Document](#) that describes some mechanisms for paying or otherwise rewarding that agent.

The [tipjar](#) property was created following [discussions](#) about simple, lightweight mechanisms that could be used to encourage rewards and payment for content exchanged online. An agent's [tipjar](#) page(s) could describe informal ("Send me a postcard!", "here's my book, music and movie wishlist") or formal (machine-readable micropayment information) information about how that agent can be paid or rewarded. The reward is not associated with any particular action or content from the agent concerned. A link to a service such as [PayPal](#) is the sort of thing we might expect to find in a tipjar document.

Note that the value of a [tipjar](#) property is just a document (which can include anchors into HTML pages). We expect, but do not currently specify, that this will evolve into a hook for finding more machine-readable information to support payments, rewards. The [OnlineAccount](#) machinery is also relevant, although the information requirements for automating payments are not currently clear.

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Property: foaf:title

title - Title (Mr, Mrs, Ms, Dr. etc)

Status: testing

This property is a candidate for deprecation in favour of 'honorificPrefix' following Portable Contacts usage. See the [FOAF Issue Tracker](#).

The appropriate values for [title](#) are not formally constrained, and will vary across community and context. Values such as 'Mr', 'Mrs', 'Ms', 'Dr' etc. are expected.

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Property: foaf:topic

topic - A topic of some page or document.

Status: testing

Domain: having this property implies being a [Document](#)

Range: every value of this property is a [Thing](#)

The [topic](#) property relates a document to a thing that the document is about.

As such it is an inverse of the [page](#) property, which relates a thing to a document about that thing.

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Property: foaf:topic_interest

topic_interest - A thing of interest to this person.

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Thing](#)

The [topic_interest](#) property links a [Agent](#) to a thing that they're interested in. Unlike [topic](#) it is not indirected through a document, but links the thing directly.

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Property: foaf:weblog

weblog - A weblog of some thing (whether person, group, company etc.).

Status: testing

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Document](#)

Inverse Functional Property

The [weblog](#) property relates a [Agent](#) to a weblog of that agent.

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Property: foaf:workInfoHomepage

work info homepage - A work info homepage of some person; a page about their work for some organization.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Document](#)

The [workInfoHomepage](#) of a [Person](#) is a [Document](#) that describes their work. It is generally (but not necessarily) a different document from their [homepage](#), and from any [workplaceHomepage](#)(s) they may have.

The purpose of this property is to distinguish those pages you often see, which describe someone's professional role within an organisation or project. These aren't really homepages, although they share some characteristics.

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Property: foaf:workplaceHomepage

workplace homepage - A workplace homepage of some person; the homepage of an organization they work for.

Status: testing

Domain: having this property implies being a [Person](#)

Range: every value of this property is a [Document](#)

The [workplaceHomepage](#) of a [Person](#) is a [Document](#) that is the [homepage](#) of a [Organization](#) that they work for.

By directly relating people to the homepages of their workplace, we have a simple convention that takes advantage of a set of widely known identifiers, while taking care not to confuse the things those identifiers identify (ie. organizational homepages) with the actual organizations those homepages describe.

For example, Dan Brickley works at W3C. Dan is a [Person](#) with a [homepage](#) of <http://danbri.org/>; W3C is a [Organization](#) with a [homepage](#) of <http://www.w3.org/>. This allows us to say that Dan has a [workplaceHomepage](#) of <http://www.w3.org/>.

```
<foaf:Person>
  <foaf:name>Dan Brickley</foaf:name>
  <foaf:workplaceHomepage rdf:resource="http://www.w3.org/" />
</foaf:Person>
```

Note that several other FOAF properties work this way; [schoolHomepage](#) is the most similar. In general, FOAF often indirectly identifies things via Web page identifiers where possible, since these identifiers are widely used and known. FOAF does not currently have a term for the name of the relation (eg. "workplace") that holds between a [Person](#) and an [Organization](#) that they work for.

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Property: foaf:yahooChatID

Yahoo chat ID - A Yahoo chat ID

Status: testing

Domain: having this property implies being a [Agent](#)

Inverse Functional Property

The [yahooChatID](#) property relates a [Agent](#) to a textual identifier assigned to them in the Yahoo online Chat system. See Yahoo's the [Yahoo! Chat](#) site for more details of their service. Yahoo chat IDs are also used across several other Yahoo services, including email and [Yahoo! Groups](#).

See [OnlineChatAccount](#) (and [OnlineAccount](#)) for a more general (and verbose) mechanism for describing IM and chat accounts.

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Property: foaf:age

age - The age in years of some agent.

Status: unstable

Domain: having this property implies being a [Agent](#)

Functional Property

The [age](#) property is a relationship between a [Agent](#) and an integer string representing their age in years. See also [birthday](#).

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Property: foaf:birthday

birthday - The birthday of this Agent, represented in mm-dd string form, eg. '12-31'.

Status: unstable

Domain: having this property implies being a [Agent](#)

Functional Property

The [birthday](#) property is a relationship between a [Agent](#) and a string representing the month and day in which they were born (Gregorian calendar). See [BirthdayIssue](#) for details of related properties that can be used to describe such things in more flexible ways.

See also [age](#).

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Property: foaf:membershipClass

membershipClass - Indicates the class of individuals that are a member of a Group

Status: unstable

The [membershipClass](#) property relates a [Group](#) to an RDF class representing a sub-class of [Agent](#) whose instances are all the agents that are a [member](#) of the [Group](#).

See [Group](#) for details and examples.

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Property: foaf:sha1

sha1sum (hex) - A sha1sum hash, in hex.

Status: unstable

Domain: having this property implies being a [Document](#)

The [sha1](#) property relates a [Document](#) to the textual form of a SHA1 hash of (some representation of) its contents.

The design for this property is neither complete nor coherent. The [Document](#) class is currently used in a way that allows multiple instances at different URIs to have the 'same' contents (and hence hash). If [sha1](#) is an owl:InverseFunctionalProperty, we could deduce that several such documents were the self-same thing. A more careful design is needed, which distinguishes documents in a broad sense from byte sequences.

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Property: foaf:status

status - A string expressing what the user is happy for the general public (normally) to know about their current activity.

Status: unstable

Domain: having this property implies being a [Agent](#)

[status](#) is a short textual string expressing what the user is happy for the general public (normally) to know about their current activity. mood, location, etc.

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Property: foaf:dnaChecksum

DNA checksum - A checksum for the DNA of some thing. Joke.

Status: archaic

The [dnaChecksum](#) property is mostly a joke, but also a reminder that there will be lots of different identifying properties for people, some of which we might find disturbing.

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Property: foaf:family_name

family_name - The family name of some person.

Status: archaic

Domain: having this property implies being a [Person](#)

This property is considered an *archaic* spelling of [familyName](#).

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Property: foaf:fundedBy

funded by - An organization funding a project or person.

Status: archaic

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Thing](#)

The [fundedBy](#) property relates something to something else that has provided funding for it.

This property is tentatively considered *archaic usage*, unless we hear about positive implementation experience.

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Property: foaf:geekcode

geekcode - A textual geekcode for this person, see <http://www.geekcode.com/geek.html>

Status: archaic

Domain: having this property implies being a [Person](#)

The [geekcode](#) property is used to represent a 'Geek Code' for some [Person](#).

See the [Wikipedia entry](#) for details of the code, which provides a somewhat frivolous and willfully obscure mechanism for characterising technical expertise, interests and habits.

The [geekcode](#) property is not bound to any particular version of the code.

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Property: foaf:givenname

Given name - The given name of some person.

Status: archaic

The [givenName](#) property is provided (alongside [familyName](#)) for use when describing parts of people's names. Although these concepts do not capture the full range of personal naming styles found world-wide, they are commonly used and have some value.

There is also a simple [name](#) property.

Support is also provided for the more archaic and culturally varying terminology of [firstName](#) and [lastName](#).

See the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

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Property: foaf:holdsAccount

account - Indicates an account held by this agent.

Status: archaic

Domain: having this property implies being a [Agent](#)

Range: every value of this property is a [Online Account](#)

This property is considered *archaic usage*. It is generally better to use [account](#) instead.

The [holdsAccount](#) property relates a [Agent](#) to an [OnlineAccount](#) for which they are the sole account holder. See [OnlineAccount](#) for usage details.

This property is equivalent to the [account](#) property, which was introduced primarily to provide simpler naming for the same idea.

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Property: foaf:surname

Surname - The surname of some person.

Status: archaic

Domain: having this property implies being a [Person](#)

A number of naming constructs are under development to provide naming substructure; draft properties include [firstName](#), [givenName](#), and [surname](#). These are not currently stable or consistent; see the [issue tracker](#) for design discussions, status and ongoing work on rationalising the FOAF naming machinery.

There is also a simple [name](#) property.

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Property: foaf:theme

theme - A theme.

Status: archaic

Domain: having this property implies being a [Thing](#)

Range: every value of this property is a [Thing](#)

This property is considered *archaic usage*, and is not currently recommended for usage.

The [theme](#) property is rarely used and under-specified. The intention was to use it to characterise interest / themes associated with projects and groups. Further work is needed to meet these goals.

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External Vocabulary References

The description of the terms in the FOAF 'dictionary' often make reference to classes and properties elsewhere. This section of the FOAF specification provides a placeholder reference for any FOAF mention of externally defined terms. For example, sometimes we might say that FOAF property has a domain or range of an externally defined class, or that a FOAF class is a sub-class of an external class, or 'disjoint with' such a class (ie. has no common members). Such claims help fix the intended meaning of FOAF terms in relationship to other 'peer' vocabularies.

Status Vocabulary

Each term in FOAF is annotated with properties from the [SemWeb Vocab Status Ontology](#)

This was created as an experiment in documenting FOAF's term-centric versioning model, in which a common fixed namespace URI is used, while term definitions slowly and independently evolve through different stability levels. This contrasts with other approaches to versioning which attach versioning information to larger sets of terms.

Note that this mechanism is itself somewhat experimental and evolvin. The definitions of 'stable', 'unstable', 'archaic' and 'testing' cannot be defined as global absolutes, but only in relationship to the practices, expectations and social structures around some vocabulary. For their use in FOAF, future versions of this specification could usefully offer more detail about what to expect from a term labelled 'stable'.

vs:term_status

The vs:term_status property indicates the status of a vocabulary term, one of 'stable', 'unstable', 'testing' or 'archaic'.

W3C Basic Geo (WGS84 lat/long) Vocabulary

Members of the FOAF and W3C Semantic Web Interest Group communities collaborated in 2003 to create a very simple vocabulary that described points in geographic space. This is the [W3C Basic Geo Vocabulary](#). It assumes use of the WGS84 reference system and defines properties geo:lat, geo:long and geo:alt in terms of a class geo:SpatialThing.

The [foaf:based_near](#) property relates a spatial thing (typically a foaf:Agent of some kind) to another spatial thing, which can be described using geo:lat, geo:long etc.

RDF Vocabulary Description - core concepts

The FOAF dictionary of terms is defined using a family of W3C standards: RDF, RDF Schema and OWL. These share a data model and general approach, and provide for increasing levels of expressivity. Here we introduce the core OWL and RDF/S terms used directly in the machine-readable description of FOAF. See [W3C's site](#) for the latest and most authoritative OWL and RDF specifications.

FOAF is based on the exchange of free-form descriptions that are structured in terms of things having properties, where the value of each property is expressed as either textually (eg. a name or number), or by reference to another thing. FOAF (as an application of RDF) uses URI identifiers wherever possible to talk about things of interest, whether they are Web pages, classes of thing, properties of things, or even people. See the W3C Web Architecture specification for [more background on URIs](#).

From core RDF, FOAF takes the notion that we are talking about things, and they fall into categories; we call these 'classes'. The core machinery we use from the RDF Schema and OWL technologies simply give us some built-in terminology for talking about things, classes and properties. Here we introduce some of these and discuss briefly how they relate to FOAF's approach to describing things.

owl:Thing

OWL introduces the class 'Thing' as a name for the universal class of all things. This is sometimes useful when we want to express universality of property use, eg. that anything can be the value of [foaf:depicts](#).

rdf:Property

RDF has a built-in class called rdf:Property. This is the class of all things like foaf:homepage or dc:creator which define named kinds of relationship between pairs of things, or between things and textually-expressed information.

owl:DatatypeProperty

The OWL specifications give a name for those properties whose values are textually-expressed: "DatatypeProperty". RDF allows these to be either plain literal values (these can also carry an indicator of their language, via xml:lang), or else "data-typed", which means they are marked with a URI indicating their type (but no language tagging).

owl:ObjectProperty

ObjectProperty is OWL's name for those properties which are not textually-expressed; instead, they are used when mentioning or referring to some other thing. OWL encourages vocabularies to avoid using a single named property in both 'ObjectProperty' and 'DatatypeProperty' styles. However earlier usage, notably in the Dublin Core community, does just this. Each FOAF property is either an Object Property or Datatype Property.

rdf:type

One of the most commonly used built-in relationships in RDF is 'type'. RDF type relates something to a class that it is in.

`rdfs:subClassOf`

RDFS gives a name for the relationship between some specific class and its more general superclass: 'subClassOf'. It would have perhaps been simpler if this was called 'superProperty'. So for example we say that `foaf:Person` has an `rdfs:subClassOf` property whose value is `foaf:Agent`.

`rdfs:Class`

RDFS gives the name 'Class' to those things that represent classes of thing, ie. which are values of `rdf:type` for their members. The OWL language also (for technical reasons) defines `owl:Class` for essentially the same notion. OWL also includes powerful machinery for defining the membership rules for classes. This is not heavily used in FOAF, beyond the experimental mechanisms associated with `foaf:Group`.

`rdfs:subClassOf`

RDFS gives a name for the relationship between some particular class and its more general superclass: 'subClassOf'. It would have perhaps been simpler if this was called 'superProperty'. So for example we say that `foaf:Person` has a `subPropertyOf` property whose value is `foaf:Agent`.

`rdfs:subPropertyOf`

Similar to `subClassOf` but for hierarchies of properties, we can use `rdfs:subPropertyOf` to point to a more general super-property, for example we say `foaf:aimChatID` `rdfs:subPropertyOf` `foaf:nick`.

`rdfs:domain`

The RDFS specification introduced the notion of a property's domain. This is a way of saying, for some property, something about the kind of classes it is used with. If you know the domain or domains for some property, you know that whenever you see that property applied to something, then that thing ought to be a member of those classes. Note that this does not mean that every description using the property is compelled to mention all those classes, just that the meaning of the property implies also the type of the thing the property is applied to.

`rdfs:range`

RDFS also defines a property of properties called 'range'; this works just like `rdfs:domain`, except for the values of a property. If you know the range of some property, you know what kinds of thing are reasonable values for it.

`owl:FunctionalProperty`

OWL provides even more useful information about properties, such as the ability to say that a property is 'functional'. This means simply that for any particular thing, you can expect at most one value for that property. It is simplest to think of this as contextualised to any given time; although OWL doesn't talk about time explicitly. So we might say that 'age' is functional, even though a series of FOAF documents might be published, each truthfully giving different values for my 'age' which made sense in their original context. At the time of writing, the only W3C technology that can take a larger perspective on such different perspectives / views (or 'graphs') is SPARQL. If you have two different values for a given

functional property, you know you have a problem; perhaps one is out-of-date, for example. Or perhaps they only differ in trivial detail (eg. date syntax, whitespace).

owl:InverseFunctionalProperty

OWL also gives a name for properties where common values tell us something about the identity of the thing having the property. On the Web this can be very useful. OWL tells us that two descriptions are of the same thing, if they include truthful mention of some 'inverse functional property' that has the same value. The classic FOAF example could be two mentions of a person having some particular foaf:homepage. This OWL construct is very useful for reasoning about identity and merging scattered and partial descriptions.

owl:inverseOf

OWL provides a property 'inverseOf' that holds between inverse properties; for example, any two things related by foaf:maker are related in the reverse direction by foaf:made.

owl:disjointWith

OWL also lets us indicate that two classes have no common members. This can be useful for clarifying modelling assumptions in a language-neutral manner; eg. we might ask whether anything can be both a foaf:Group and a foaf:Organization simultaneously.

owl:sameAs

OWL provides a term for talking about identity in the sense of "being one and the same thing as". Many FOAF constructs imply that two seemingly different things are in fact mentions of the self-same real world entity; this can be written out explicitly using owl:sameAs. For example, if two FOAF descriptions give URI identifiers <http://example.com/foo#person1> and <http://example.org/bar#person2> in two person-descriptions, but ascribe the same homepage URI, we can conclude that person1 is owl:sameAs person2 (and vice-versa). This construct provides a powerful mechanism for decentralised, [linked data](#).

skos:Concept

W3C provides a rich framework for describing linked topics, [SKOS](#). FOAF defines a small extension to SKOS called [foaf:focus](#) designed to link conceptualisations of entities to more linked data (eg. in FOAF) about the specific thing a SKOS "Concept" is about. 'Concept' is SKOS's fundamental class, and corresponds to abstractions common in library and cultural heritage information systems, including thesauri and subject indexing schemes.

Dublin Core terms

The Dublin Core specification provides term definitions that focus on issues of resource discovery, document description and related concepts useful for cultural heritage and digital library applications. FOAF can be used alongside any variants of Dublin Core, but works most effectively with the most modern [Dublin Core terms](#) namespace. Note that here we use the prefix 'dct:' to stand for the DC Terms namespace; however it is not unusual to see 'dc' also used.

[dct:Agent](#)

Dublin Core's notion of Agent is much like FOAF's; Dublin Core says "A resource that acts or has the power to act.", we say "things that do stuff". As nobody has provided a counter-example of something fitting one definition but not the other, we say here that foaf:Agent stands in an 'equivalent class' relationship to dct:Agent (and vice-versa).

[dct:creator](#)

The notion of 'creator' in the latest versions of Dublin Core matches FOAF's notion of 'maker'; based on their definitions, every pair of things that are related by one of those properties are also related by the other. We express this by saying that these properties stand in an 'equivalent property' relationship to one another.

Wordnet terms

Earlier versions of this specification used an experimental companion namespace produced from the lexical database Wordnet (v1.6). This is currently offline, and corresponding sub-class relationships have been omitted from the FOAF documentation. More [recent](#) RDF representations of Wordnet now exist, however they don't map Wordnet synsets to classes, so can't be directly used here. Future versions of this specification might restore links to some version of Wordnet in RDF.

SIOC terms

Many terms in the [SIOC](#) vocabulary are defined with reference to FOAF. See the [SIOC](#) project for details. Future versions of this specification may provide more information here.

Acknowledgments

There are far too many people who have contributed to the FOAF project to name everyone in this early-release of the new improved spec. FOAF wouldn't be such a fun project or be as widely known as it is today without the efforts, enthusiasm and intelligence of the folks who have contributed via the [rdfweb-dev](#) list, [#foaf](#) IRC channel, and [FoafProject](#) wiki site.

That said, a few milestones in FOAF's history should be mentioned. We owe particular thanks to Edd Dumbill for his IBM developerWorks articles (which attracted the affections of the Weblogging crowd) and for his Foafbot application whose evolution those articles have tracked. Also Morten Frederiksen's [FoafExplorer](#), Daniel Krech's [Web View](#) aggregator, Jim Ley and Liz Turner's work on FOAFNaut, which alongside FOAFbot, have been instrumental in showing how FOAF data can be collected and used. Meanwhile Leigh Dodd's [foaf-a-matic](#) has been the data creation tool that has been most people's gateway to FOAFdom. FOAF also owes a lot to the folks at [Ecademy](#), [TypePad](#) and elsewhere for showing how end users can share FOAF self-descriptions on the Web without ever seeing a line of XML syntax. Jo Walsh has enthused [many](#) about hooking FOAF up to Geo and mapping data, as has Matt Biddulph by [explaining](#) the workings of his FOAF harvesting and image metadata tools. FOAF has also benefited

greatly from documentation contributed in non-English languages, many thanks to all contributors of translations (foaf-a-matic and other docs). FOAF is now arguably better documented [in Japanese](#) and [Spanish](#) than in English, thanks to Masahide Kanzaki and Leandro Mariano Lopez (inkel) respectively. Thanks also to [Chris Schmidt](#) for fixing up the [spec generation](#) tool (now a Python/Redland script), as well as for contributing numerous [cool hacks](#) to the FOAF community. To Richard Cyganiak and others in IRC for (amongst much else) help debugging Apache configurations. To Ian Davis for his wonderful [FOAF Logo](#). And last but not least, Marc Canter is in a class of his own. Thanks all, and to those who aren't listed here yet, but who made a difference...

This brief survey only scratches the surface of a growing body of work. Sincere thanks to all who have contributed tools, documentation, brain cells and enthusiasm to this project. We should also mention that FOAF would not be possible without the collaborative and opensource efforts of the RDF developer community, both in terms of idea sharing (#swig etc) and freely available tools (Jena, Redland, RDFlib, Cwm, Sesame, 3store etc).

Thanks also to TimBL, who dreamed most of this up [years ago](#), for seeing what "hypertext flexibility" could bring...

Recent Changes

Changes in version 0.98

- "The FOAF RDF namespace" clarified as "The FOAF RDF namespace URI".
- clarified that RDF/XML now available by conneg and direct link, but not embedded; and that inline RDFa is partial.
- swapped order of a couple of paragraphs from SOTD section; technical detail comes later now.
- added sepia (#5E2612) to style.css, for use as 'archaic' background color on old terms.
- added [foaf:focus](#) "The `foaf:focus` property relates a conceptualisation of something to the thing itself." We stay quiet for now on whether it is functional, inverse functional, ...
- added mention of SKOS Concept to index.rdf and to the 'external vocabs' section of the HTML spec.
- added brief description of owl:sameAs to the 'external vocabs' section.
- created basic <http://wiki.foaf-project.org/w/Conneg> and linked from mention in spec of Content negotiation.
- Added explanatory text alongside 'domain' and 'range', inspired by, and borrowing from, the [Bio vocabulary](#).
- removed link to Jim Ley's old SVG image annotation demo, as it isn't maintained.
- moved large section on FOAF and RDF into the Wiki as [FOAFandRDF](#).
- fixed a mistaken reference to isPrimarySubjectOf (where '...topic' was intended).
- [topic interest](#): removed placeholder health warning and added a simple definition
- index.rdf: From unstable to testing: [Project](#) (we should review DOAP usage and data too), [OnlineAccount](#) (should we specify URI as profile page?), [based_near](#)

- (time to review AR/POI use cases?), [title](#) (vs. honorific prefix?), [skypeID](#), [lastName](#), [openid](#), [account](#), [accountServiceHomepage](#), [accountName](#) (would simple 'name' work?),
- index.rdf: From unstable to archaic: [dna_checksum](#) (joke isn't funny any more...)
 - index.rdf: From testing to archaic: [surname](#) (tidying clutter from the early days)
 - index.rdf: From testing to stable: [primaryTopic](#)/isPrimaryTopicOf, [knows](#) (since these are widely used and definitions haven't changed or been contested)
 - index.rdf: confirmed that [Image](#) is a subclassOf [Document](#)
 - index.rdf: removed some false disjointness claims: people can be documents (tatoos); agents can be documents (eg. java software agents)
 - index.rdf: our local label for owl:Thing is now "Thing" not "a Thing" (largely a spec generation detail)
 - index.rdf: broadened [foaf:topic_interest](#) and [foaf:interest](#) to have domain of Agent rather than Person, allowing for collective (group, project, organization) interests.
 - index.rdf: [foaf:logo](#) is an Inverse Functional Property now

Changes from version [0.97](#) and [0.96](#)

- [foaf:givenName](#) and [foaf:familyName](#) have been changed from [foaf:givenname](#) and [foaf:family_name](#) to make FOAF in line with usage of these terms in the [Portable Contacts](#) format. The previous versions remain in the document, marked as 'archaic'.
- Two little-used and poorly defined properties have been marked as 'archaic': [foaf:fundedBy](#) and [foaf:theme](#)
- [foaf:holdsAccount](#) has been marked as 'archaic' in favour of [foaf:account](#)

More details (including postponed suggestions) are [in the Wiki](#).

2009-12-15

- terms: foaf:Agent owl:equivalentClass with Dublin Core terms namespace 'Agent'; similarly foaf:maker and 'creator' from DC. These use the most modern <http://purl.org/dc/terms/> namespace
- editorial: added note about the use of 'archaic'
- editorial: added a paragraph on changes in this version
- terms: family_name marked as archaic; replaced with familyName
- terms: marked fundedBy as archaic
- terms: marked givenname as archaic; replaced with givenName
- terms: marked holdAccount as archaic; replaced with account
- terms: changed myersBriggs from incorrect objectProperty to datatypeProperty
- terms: added openId into the rdf/xml version (it was present in the dated version but not in index.rdf)
- terms: marked theme as archaic
- editorial: fixed outdated references to RDF/XML
- editorial: updated acknowledgements
- terms: added text about terms used in foaf not in the foaf namespace

- editorial: fixed links and stray references to rdfweb-dev and #rdfig
- editorial: fixed rdfweb.org blog links (now pointing at archive.org where possible)
- editorial: fixed links to the wiki (stray /w/)
- editorial: fixed internal link to sec-glance
- editorial: fixed copyright date to 2009

2007-11-02

- terms: added [foaf:openid](#)
- editorial: updated links to the [FOAF wiki](#) (which now supports OpenID for logins)
- editorial: spec now uses RDFa DTD declaration.

2007-05-24

- terms: Organization, Group, member, made, maker are now stable.
- editorial: Table of contents represents actual rather than desired structure. links fixed.
- process: Clarified that the specification version and URL are not 0.1; publishing at /foaf/spec
- editorial: Noted that the namespace URI will not change. Given the spec a version (0.9)
- editorial: CSS tweaks (grey boxes for terms), margins, justification
- editorial: Removed various TODOs and editorial comments
- editorial: Updated text for Organization to indicate relationship with Group
- web: Web server configuration now serves 303 redirects for terms, and RDF at the namespace URI if application/rdf+xml requested
- editorial: Updated mentions of rdfig to be swig, rdfweb-dev to be foaf-dev; fixed links accordingly
- editorial: Removed link to validator, since we have RDF inside and the dtd-based validator doesn't like mixed-namespace documents.
- web: created /foaf/spec for specification documents (and archive)
- editorial: Re-organized boilerplate section slightly (spec has url for current version).
- editorial: Updated per-term documentation to link to [wiki issue tracker](#) instead of the old bugzilla installation.
- editorial: Updated foaf:Group documentation to mention possibility of SPARQL
- editorial: Updated foaf:name documentation to mention possibility of XMLLiteral datatyped values
- editorial: Fixed or removed various bad links (ichat, python, internal links)
- editorial: Reworded copyright statement to clarify intent; we used to say "and does not apply to FOAF data formats, vocabulary terms, or technology.", which gave impression we were holding stuff back. Rather, this is just our understanding of copyright. The underlying technology part is completely supplied by W3C's specifications.
- web: added "rel='alternate'" to document header to aid RDF discovery

