Namespace: Language

Headline

The namespace of software languages

Description

This namespace is dedicated to software languages, e.g., programming languages such as Language:Java, Language:Python, and Language:Haskell. Software languages are supposed to be described already elsewhere on the web, e.g., on Wikipedia, and thus, 101wiki coverage can be minimalistic and the 101wiki page for a language serves essentially as a linked open data resource. Metadata for a language should serve the classification of languages on 101wiki.

Metadata

- Software language
- Section:Headline
- Section:Details
- Section:Quote
- Section:Illustration
- Section:Metadata
- Property:instanceOf
- Language:Haskell

Language: Java

Headline

An OO programming language

Illustration

Let's show "Hello World" for Java.

```
public class HelloWorld {

    public static void main(String[] args) {
        System.out.println("Hello, World");
    }

}
```

Metadata

- OO programming language
- OO programming
- https://en.wikipedia.org/wiki/Java_(programming_language)'
- https://java.com'
- Technology:Java platform
- Technology:Java SE

Concept: Software language

Headline

A software language

Description

The following quote, which was extracted on 1 March 2011 from the website http://www.sleconf.org/2011/ of "The International Conference on Software Language Engineering (SLE 2011)", serves as the approximation of a description: *"The term â€œsoftware languageâ€ comprises all sorts of artificial languages used in software development including general-purpose programming languages, domain-specific languages, modeling and meta-modeling languages, data models, and ontologies. Used in its broadest sense, examples include modeling languages such as UML-based and domain-specific modeling languages, business process modeling languages, and web application modeling languages. The term â€œsoftware languageâ€ also comprises APIs and collections of design patterns that are implicitly defined languages."*

Metadata

- http://www.sleconf.org/2011/
- Vocabulary:Software language engineering

Language: Haskell

Headline

The functional programming language Haskell

Details

101wiki hosts plenty of Haskell-based contributions. This is evident from corresponding back-links. More selective sets of Haskell-based contributions are organized in themes: Theme:Haskell data, Theme:Haskell potpourri, and Theme:Haskell genericity. Haskell is also the language of choice for a course supported by 101wiki: Course:Lambdas_in_Koblenz.

Illustration

The following expression takes the first 42 elements of the infinite list of natural numbers:

```
> take 42 [0..]
[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41]
```

In this example, we leverage Haskell'slazy evaluation.

Metadata

- http://www.haskell.org/
- http://en.wikipedia.org/wiki/Haskell_(programming_language)
- Functional programming language

Language: Python

Headline

A multi-paradigm programming language

Metadata

- OO programming language
- Interpreted programming language
- Functional programming language
- Multi-paradigm programming language
- http://en.wikipedia.org/wiki/Python_(programming_language)
- http://wiki.python.org/moin/FrontPage?action=show&redirect=StartSeite
- dictionary
