Tools specification [version]

Bioschemas specification for describing SoftwareApplication in the life-science

[One paragraph description]

[References to supporting information like “use cases”, “bioschemas mapping” and “schema.org posted issues”]

Parent Classes

Schema.org

Bioschemas

Other

# Properties

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Based on schema.org SoftwareApplication | | | | | |
| **Property** | **Expected Type** | **Description** | **CN** | **MG** | **CV** |
| featureList | Text or  URL | Features or modules provided by this application (and possibly required by other applications). | many | M | no |
| softwareHelp | CreativeWork | Software application help. | many | M | no |
| softwareRequirements | Text or  URL | Component dependency requirements for application. This includes runtime environments and shared libraries that are not included in the application distribution package, but required to run the application (Examples: DirectX, Java or .NET runtime). Supersedes requirements. | many | M | no |
| supportingData | DataFeed | Supporting data for a SoftwareApplication. | one | M | no |
| accountablePerson | Person | Specifies the Person that is legally accountable for the CreativeWork. | one | M | no |
| citation | CreativeWork or  Text | A citation or reference to another creative work, such as another publication, web page, scholarly article, etc. | many | M | no |
| description | Text | A description of the item. | many | M | no |
| name | Text | The name of the item. | many | O | no |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| New proporties | | | | | |
| **Property** | **Expected Type** | **Description** | **CN** | **MG** | **CV** |
|  |  |  | many | O | no |
|  |  |  | many | R | no |

**Legend:** *CN: Cardinality (one, many)*

*MG: Marginality (M: minimum; R: recommended; O: optional)*

*CV: Suggested controlled vocabularies (yes, no)*

# Examples

Schema.org [suggests](http://schema.org/docs/gs.html) implementing metadata using JSON-LD, RDFa or Microdata. JSON-LD is the recommended format by Google, but any of these formats can be used for embedding information about tools in a web page or other online resource.

|  |
| --- |
| Example 1 - [format: RDFa | JSON-LD | Microdata]. [Example description. Eg: Using minimum fields] |
| <div itemscope itemtype="http://schema.org/[type]">  <div itemprop="id">[id]</div>  <div itemprop="name">[name]</div>  <div itemprop="description">[description]</div>  ...  </div> |

# Controlled Vocabularies

This section contains a list of fields that require a controlled vocabulary or enumeration and suggests what is acceptable for each.

## [Property]

[Please provide a list of suggested controlled vocabularies or a list of suggested enumerations. For controlled vocabularies include references or links to the vocabulary or branch within the vocabulary. Eg: [EDAM Topic](http://edamontology.org/topic_0003). For enumerations include values and value descriptions]