

## Question

Is the type 'KDE Extragear' relevant for the computer language classification?  
 Is the type 'KDE Software Compilation' relevant for the computer language classification?  
 Is the type 'Process.h' relevant for the computer language classification?  
 Is the type 'Silent Storm engine games' relevant for the computer language classification?  
 Is the type 'Simple DirectMedia Layer' relevant for the computer language classification?  
 Is the type 'Software that uses FLTK' relevant for the computer language classification?  
 Is the type 'Software that uses QML' relevant for the computer language classification?  
 Is the type 'Software that uses Qt' relevant for the computer language classification?  
 Is the type 'Software that uses Scintilla' relevant for the computer language classification?  
 Is the type 'Software that uses wxWidgets' relevant for the computer language classification?

Is 'Structured English' a valid eponymous type?  
 Is 'WxWidgets' a valid eponymous type?  
 Is 'Systems Modeling Language' a valid eponymous type?  
 Is 'XHTML' a valid eponymous type?  
 Is 'Temporal logic' a valid eponymous type?  
 Is 'XML' a valid eponymous type?  
 Is 'Troff' a valid eponymous type?  
 Is 'Z notation' a valid eponymous type?  
 Is 'XTalk' a valid eponymous type?  
 Is 'Zope' a valid eponymous type?

Is the type 'C standard library' semantically distant, such that it has to be removed?  
 Is the type 'Specification languages' semantically distant, such that it has to be removed?  
 Is the type 'PHP frameworks' semantically distant, such that it has to be removed?  
 Is the type 'XML-based standards' semantically distant, such that it has to be removed?  
 Is the type 'Computer algebra systems' semantically distant, such that it has to be removed?  
 Is the type 'Temporal logic' semantically distant, such that it has to be removed?  
 Is the type 'Ecma standards' semantically distant, such that it has to be removed?  
 Is the type 'Systems Modeling Language' semantically distant, such that it has to be removed?  
 Is the type 'Geographical databases' semantically distant, such that it has to be removed?  
 Is the type 'Unified Modeling Language diagrams' semantically distant, such that it has to be removed?

Is the entity 'Hoc (programming language)' semantically distant?  
 Is the entity 'Delta Drawing' semantically distant?  
 Is the entity 'CIDOC Conceptual Reference Model' semantically distant?  
 Is the entity 'MUD' semantically distant?  
 Is the entity 'S5 (file format)' semantically distant?  
 Is the entity 'POV-Ray' semantically distant?  
 Is the entity 'R (programming language)' semantically distant?  
 Is the entity 'ILNumerics' semantically distant?  
 Is the entity 'MATLAB' semantically distant?  
 Is the entity 'Docear' semantically distant?

What kind of transformation do you apply for 'XML' having 2 information collections?  
 What kind of transformation do you apply for 'IBM BASIC' having 3 information collections?  
 What kind of transformation do you apply for 'Inform' having 3 information collections?  
 What kind of transformation do you apply for 'Microsoft Office XML formats' having 3 information collections?  
 What kind of transformation do you apply for 'Office Open XML' having 3 information collections?  
 What kind of transformation do you apply for 'Portable Document Format' having 3 information collections?  
 What kind of transformation do you apply for 'Resource Description Framework' having 3 information collections?  
 What kind of transformation do you apply for 'SPICE' having 3 information collections?  
 What kind of transformation do you apply for 'Web Ontology Language' having 3 information collections?  
 What kind of transformation do you apply for 'OpenDocument' having 4 information collections?

Is 'XML-based programming languages' a subtype of 'Markup languages' and 'Specification languages' at the same time?  
 Is 'XML-based standards' a subtype of 'Markup languages' and 'Specification languages' at the same time? If not, name

Is 'Bibliography file formats' a subtype of 'Markup languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'Dependently typed languages' a subtype of 'Programming languages' and 'Specification languages' at the same time? If not, name a transformation.

Is 'Declarative markup languages' a subtype of 'Markup languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'XML-based programming languages' a subtype of 'Programming languages' and 'Markup languages' at the same time? If not, name a transformation.

Is 'Page description markup languages' a subtype of 'Markup languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'XTalk' a subtype of 'Programming languages' and 'Specification languages' at the same time? If not, name a transformation.

Is 'Synchronous programming languages' a subtype of 'Programming languages' and 'Specification languages' at the same time? If not, name a transformation.

Is 'User interface markup languages' a subtype of 'Markup languages' and 'Specification languages' at the same time? If not, name a transformation.

Is 'JavaScript Style Sheets' an instance of 'Stylesheet languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'Visual Basic for Applications' an instance of 'Programming languages' and 'Transformation languages' at the same time? If not, name a transformation.

Is 'RascalMPL' an instance of 'Programming languages' and 'Transformation languages' at the same time? If not, name a transformation.

Is 'SAM76' an instance of 'Transformation languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'SMX (computer language)' an instance of 'Transformation languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'WordBASIC' an instance of 'Transformation languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'Stratego/XT' an instance of 'Transformation languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'Parser (CGI language)' an instance of 'Transformation languages' and 'Programming languages' at the same time? If not, name a transformation.

Is 'Refer (software)' an instance of 'Programming languages' and 'Markup languages' at the same time? If not, name a transformation.

Is 'XSL' an instance of 'Stylesheet languages' and 'Specification languages' at the same time? If not, name a transformation.

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Data-centric programming languages and Persistent programming languages are cyclic types. How do you solve this issue?

What transformation would you apply on the lazy type 'Free software programmed in OCaml' ?

What transformation would you apply on the lazy type 'Programming languages created in 2006' ?

What transformation would you apply on the lazy type 'JavaScript dialect engines' ?

What transformation would you apply on the lazy type 'Programming languages created in 2008' ?

What transformation would you apply on the lazy type 'Haskell software' ?

What transformation would you apply on the lazy type 'Programming languages created in 2012' ?

What transformation would you apply on the lazy type 'Set theoretic programming languages' ?

What transformation would you apply on the lazy type 'Markup language comparisons' ?

What transformation would you apply on the lazy type 'Spatial databases' ?

What transformation would you apply on the lazy type 'XML-based programming languages' ?

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Is any structure redundant, where a type S is a transitive or direct subtype of A and B, while A is direct or transitive subtype of B?

Is any structure redundant, where a type S is a transitive or direct instance of A and B, while A is direct or transitive subtype of B?

Expected Answer	Answer
no	no
no	no
no	no
no	no
no	no
no	no
no	no
no	no
no	no
no	no
yes	yes
no, Abandon	no, abandon
yes	yes
no, Abandon (selective rescue)	no, Abandon (selective rescue)
yes	yes
no, Abandon (selective rescue)	no, Abandon (selective rescue)
no, Abandon (selective rescue)	no, Abandon (selective rescue)
no, Abandon (selective rescue)	no, Abandon (selective rescue)
yes	yes, abandon entity?
no, Abandon	no, abandon
yes, abandon	yes, abandon
no	no
yes, abandon	yes, abandon
no	no
yes, Abandon (selective rescue)	yes, Abandon (selective rescue)
no	no
yes, abandon	yes, abandon
no	no
yes, abandon	yes, abandon
no	no
no	no
yes, abandon	no
no	no
yes, abandon	yes, abandon
no	no
yes, abandon	yes, abandon
no	no
yes, abandon	yes, abandon
no	no
yes, abandon	no (disambiguation from DSL)
no	no
yes, abandon	yes, abandon
Unite	Unite
Extract Entities	Extract Entity
Extract Entities + Abandon Entity	Extract Entity
Extract Entities + Abandon Entity	Extract Entity
Extract Entities + Abandon Entity	Extract Entity
Extract Entities	Extract Entity
Extract Entities	Extract Entity
Abandon entity	Abandon Entity
Extract Entities	Extract Entity
Extract Entities + Abandon Entity	Extract Entity
yes	Remove subtype (from Specification languages;
yes	Remove subtype (from Specification languages;

Sheet1

Remove subtype	Remove subtype (from Programming L)
yes	? strong dissolve
Remove subtype	Remove subtype (from Programming L)
yes	yes
Remove subtype	Remove subtype (from Programming L)
yes	yes
Remove subtype	Remove subtype (from Specification languages)
yes	Remove subtype (from Specification languages)
Remove instance	Remove instance
yes	yes
Remove 2 subtypes + instance	yes
yes	yes
Remove instance	Remove instance (PL)
yes	Remove instance (Macro)
Remove instance	yes
yes	yes
Abandon entity	Remove subtype (from Programming Language)
yes	Remove subtype (from Specification languages)
Lift Cycle, all persistent PL are data centric	Lift Cycle, all persistent PL are data centric
Abandon type	Abandon Type
none	guideline necessary
Abandon type	Abandon Type
no	guideline necessary
Abandon type	Abandon Type
no	guideline necessary
no	no
Abandon type	Abandon Type
Abandon type	Abandon Type
none	none
yes	yes
yes	yes

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Sheet2

	Agree	Disagree	Decision issue
Distant Type	10	0	0
Eponymous Type	10	0	0
Semantically Distant Type	10	0	0
Semantically Distant Entity	9	1	0
Multiple Information	10	0	0
Double Reachable Type	6	4	0
Double Reachable Entity	5	4	1
Cyclic Type	1	0	0
Lazy Type	7	0	3
Redundant Subtype	18	0	0
Redundant Instance	607	0	0