

# 2019-10-29 - SLPG Meeting

## Date & Time

10:30am (local time) Tuesday 29th October 2019

## Location

Grand Residence 103, Grand Hyatt Hotel Kuala Lumpur, Malaysia

## Goals

- To review current priorities and plan future work based on these priorities
- To progress work on
  - URIs
  - Templates
  - ECL
  - Query language

## Attendees

- Chair: [Linda Bird](#)
- Project Group: [Michael Lawley](#), [Daniel Karlsson](#), [Anne Randorff Højen](#), [Peter G. Williams](#), [Kai Kewley](#)
- Observer: Fuad Rahman (Goldblatt)

## Apologies

- [Ed Cheetham](#)

## Agenda and Meeting Notes

Description	Owner	Notes
Welcome and agenda	<a href="#">Linda Bird</a>	
Priorities	<a href="#">Linda Bird</a>	<ul style="list-style-type: none"><li>• Discuss current priorities and new requirements<ul style="list-style-type: none"><li>◦ Add 'boolean' to Compositional Grammar, ECL and Templates</li><li>◦ Use abbreviation "bool".</li></ul></li></ul>
URIs	<a href="#">Peter G. Williams</a>	<ul style="list-style-type: none"><li>• Overview of current status:<ul style="list-style-type: none"><li>◦ Published version: <a href="https://confluence.ihtsdotools.org/display/DOCURI">https://confluence.ihtsdotools.org/display/DOCURI</a></li><li>◦ Work in progress: <a href="https://confluence.ihtsdotools.org/display/WIPURI/URI+Standard">https://confluence.ihtsdotools.org/display/WIPURI/URI+Standard</a><ul style="list-style-type: none"><li>▪ Consistent structure to each URI page</li><li>▪ New proposal on URIs for languages and language instances</li></ul></li></ul></li><li>• Proposed update to support FHIR Resource instances<ul style="list-style-type: none"><li>◦ <a href="#">2.7 URIs for SNOMED Resources</a></li></ul></li><li>• Agreement<ul style="list-style-type: none"><li>◦ <a href="http://snomed.info/valueSet/gps">http://snomed.info/valueSet/gps</a></li><li>◦ <a href="http://snomed.info/fhirStructureDefinition/conditionWithSnomedBinding">http://snomed.info/fhirStructureDefinition/conditionWithSnomedBinding</a></li><li><a href="http://snomed.info/openEhrArchetype/conditionWithSnomedBinding">http://snomed.info/openEhrArchetype/conditionWithSnomedBinding</a></li><li><a href="http://snomed.info/&lt;resourcetype&gt;/&lt;resourceName&gt;">http://snomed.info/&lt;resourcetype&gt;/&lt;resourceName&gt;</a></li></ul></li></ul> <p>ResourceTypes:</p> <ul style="list-style-type: none"><li>▪ <a href="#">valueSet</a></li><li>▪ <a href="#">fhirStructureDefinition</a></li><li>▪ <a href="#">openEhrArchetype</a></li></ul> <ul style="list-style-type: none"><li>◦</li></ul>

Expression Templates	Peter G. Williams	<ul style="list-style-type: none"> <li>Overview of current status <ul style="list-style-type: none"> <li>Published version: <a href="https://confluence.ihtsdotools.org/display/DOCSTS/Template+Syntax+Specification">https://confluence.ihtsdotools.org/display/DOCSTS/Template+Syntax+Specification</a></li> <li>Work in progress: <a href="https://confluence.ihtsdotools.org/display/WIPSTS/Template+Syntax+Specification">https://confluence.ihtsdotools.org/display/WIPSTS/Template+Syntax+Specification</a> <ul style="list-style-type: none"> <li>Added a 'default' constraint to each replacement slot - e.g. default (72673000  Bone structure (body structure) )</li> <li>Enabling 'slot references' to be used within the value constraint of a replacement slot - e.g. [[ +id (&lt;&lt; 123037004  Body structure  MINUS &lt;&lt; \$findingSite2) @findingSite1]]</li> <li>Allowing repeating role groups to be referenced using an array - e.g. \$rolegroup[1] or \$rolegroup[!=SELF]</li> <li>Adding 'sameValue' and 'allOrNone' constraints to information slots - e.g. sameValue (\$site), allOrNone (\$occurrence)</li> <li>Self</li> <li>See changes in red here: <a href="#">5.1. Normative Specification</a></li> </ul> </li> </ul> </li> </ul> <p>Examples:</p> <pre>[[+id]]: [[1..*] @my_group sameValue(morphology)] {  Finding site  = [[ +id (&lt;&lt;123037004  Body structure (body structure)  MINUS &lt;&lt; \$site  SELF ) ) @site ] ,  Associated morphology  = [[ +id @my_morphology ] ] }</pre> <ul style="list-style-type: none"> <li>Implementation feedback on draft updates to Expression Template Language syntax <ul style="list-style-type: none"> <li>Use cases from the Quality Improvement Project: <ul style="list-style-type: none"> <li>Multiple instances of the same role group, with some attributes the same and others different. Eg same morphology, potentially different finding sites.</li> </ul> </li> </ul> </li> </ul> <p>Note that QI Project is coming from a radically different use case. Instead of <i>filling</i> template slots, we're looking at existing content and asking "exactly <i>how</i> does this concept fail to comply to this template?"</p> <p>For discussion:</p> <pre>[[0..1]] { [[0..1]] 246075003  Causative agent  = [[+id (&lt; 410607006  Organism  ) @Organism]] }</pre> <p>Is it correct to say either one of the cardinality blocks is redundant? What are the implications of 1..1 on either side? This is less obvious for the self grouped case.</p> <h3>Road Forward for SI</h3> <ol style="list-style-type: none"> <li>Generate the parser from the ABNF and implement in the Template Service</li> <li>User Interface to a) allow users to specify template at runtime b) tabular (auto-completion) lookup STL</li> <li>Template Service to allow multiple templates to be specified for alignment check (aligns to none-off)</li> <li>Output must <b>clearly indicate</b> exactly what feature of concept caused misalignment, and what condition was not met.</li> </ol> <p>Additional note: QI project is no longer working in subhierarchies. Every 'set' of concepts is selected via ECL. In fact most reports should now move to this way of working since a subhierarchy is the trivial case. For a given template, we additionally specify the "domain" to which it should be applied via ECL. This is much more specific than using the focus concept which is usually the PPP eg Disease.</p> <p>FYI <a href="#">Michael Chu</a></p>
Description Templates	Kai Kewley	<ul style="list-style-type: none"> <li>Overview of current use</li> <li>Review of <a href="#">General rules for generating descriptions</a> <ul style="list-style-type: none"> <li>Removing tags, words</li> <li>Conditional removal of words</li> <li>Automatic case significance</li> <li>Generating PTs from target PTs</li> <li>Reordering terms</li> </ul> </li> <li>Mechanism for sharing general rules - inheritance? include?</li> <li>Description Templates for translation</li> <li>Status of planned specification</li> </ul>
Expression Constraint Language	Linda Bird	<ul style="list-style-type: none"> <li>Review scope and syntax of previous internal implementation (<a href="#">Kai Kewley</a> )</li> <li>Recap where we were up to with adding term-searches to ECL (see below)</li> </ul> <p><b>Previous discussions</b></p> <p><b>Syntax</b></p> <pre>{{ term = [ termSearchType : ] "String", languageCode = [langCode] }}</pre> <p><b>Term Search Type</b></p>

- a. Wild Card Match (collation) - e.g.
    - o {{ term = **wild**:**"\*\*heart\*\*"** }}
    - o {{ term = wild (sv):**"\*hjärta\*\*"** }}
  - a. ~~Regex - e.g.~~
    - o ~~{{ term = regex:**"\*heart.\*"** }}~~
  - a. Word Prefix Any Order - e.g.
    - o {{ term = **match**:**"hear att"** }}
  - a. Default (word prefix any order) - e.g.
    - o {{ term = "hear att" }}
    - o {{ term = **"\*\*heart\*\*"** }}
- 2.

#### Potential Examples

- o << 64572001 |Disease| {{ term = "heart" }}
- o << 64572001 |Disease| {{ term = "heart", languageCode = "en" }}
- o << 64572001 |Disease| {{ term = "heart", languageCode = "en" }} AND << 64572001 |Disease| {{ term = "hjärta", languageCode = "sv" }}
- o << 64572001 |Disease| {{ term = "heart", languageCode = "en" }} {{ term = "hjärta", languageCode = "sv" }}
- o << 64572001 |Disease| {{ term = "heart", languageCode = "en" }} OR << 64572001 |Disease| {{ term = "hjärta", languageCode = "sv" }}
- o << 64572001 |Disease| {{ (term = "heart", languageCode = "en") OR (term = "hjärta", languageCode = "sv") }}
- o (<< 64572001 |Disease|: |Associated morphology| = \*) {{ term = "heart", languageCode = "en", }} {{ term = "hjärta", languageCode = "sv" }}
- o (<< 64572001 |Disease| {{ term = **"\*\*cardio\*\*"** }}) MINUS (<< 64572001 |Disease| {{ term != **"\*\*heart\*\*"** }})
- o Recommendation to be made on (based on investigation of grammar):
  - << 64572001 |Disease| {{ term = "heart", languageCode = "en" }} AND {{ term = "hjärta", languageCode = "sv" }}.
  - << 64572001 |Disease| ( {{ term = "heart", languageCode = "en" }} OR {{ term = "hjärta", languageCode = "sv" }} )
  - << 64572001 |Disease| ( {{ term = "heart", languageCode = "en" }} MINUS {{ term = "hjärta", languageCode = "sv" }} ) .

#### Use Cases

- o Intentionally define a reference set for chronic disease. Starting point was ECL with modelling; This misses concepts modelled using the pattern you would expect. So important in building out that reference set.
- o Authors quality assuring names of concepts
- o Checking translations, retranslating. Queries for a concept that has one word in Swedish, another word in English
- o AU use case would have at most 3 or 4 words in match
- o Consistency of implementation in different terminology services
- o Authoring use cases currently supported by description templates
- o A set of the **"\*\*ectomy"**s and **"\*\*itis"**s

#### Questions

		<ul style="list-style-type: none"> <li>Do we include 'typeld' - e.g. &lt;&lt; 64572001  Disease  {{ D.term = "heart", typeld = 900000000000013009  Synonym  }}</li> <li>NO</li> <li>Do we include 'type' - e.g. &lt;&lt; 64572001  Disease  {{ D.term = "heart", D.type = synonym }}</li> <li>NO</li> <li>Do we include 'languageCode' - e.g. &lt;&lt; 64572001  Disease  {{ D.term = "heart", D.type = synonym, D.languageCode = "en" }}</li> <li>YES</li> <li>Do we include 'caseSignificancelld' - e.g. &lt;&lt; 64572001  Disease  {{ D.term = "Heart", D.caseSignificancelld = 900000000000017005  case sensitive  }}</li> <li>NO</li> <li>Do we include 'caseSignificance' - e.g. &lt;&lt; 64572001  Disease  {{ D.term = "Heart", D.caseSignificance = sensitive }}</li> <li>NO</li> <li>Do we include 'language' and 'version' - e.g. &lt;&lt; 64572001  Disease  {{ term = "heart" }} VERSION = http://..., LANGUAGE = (999001881000000108 Gastro LRS ,  GB English )</li> <li>NO</li> <li>Do we include syntactic sugar - e.g. <ul style="list-style-type: none"> <li>&lt;&lt; 64572001  Disease  {{ preferredTerm = "heart", languageRefSet = en-gb }}</li> <li>&lt;&lt; 64572001  Disease  {{ fullySpecifiedTerm = "heart", languageRefSet=en-gb }}</li> <li>&lt;&lt; 64572001  Disease  {{ acceptableTerm = "heart", languageRefSet = en-gb }}</li> <li>&lt;&lt; 64572001  Disease  {{ preferredTerm = "heart" }} FROM version = X, language = Y</li> <li>NO</li> </ul> </li> <li>Do we use/require the "D" at the start of "term"? <ul style="list-style-type: none"> <li>NO</li> </ul> </li> <li>Packaging - How do we package this extension to ECL <ul style="list-style-type: none"> <li>A new version of ECL - e.g. 2.0 (or 1.4?) same specification document</li> <li>An optional extension to ECL for SNOMED authors/content developers - e.g. ECL++ / ECLv1.3++</li> <li>An appendix on the ECL document? (with Filter Language)</li> <li>A subset/profile of the Query Language A separate document that defines SNOMED filters, which can be added to any version of ECL</li> <li>Filter Language</li> </ul> </li> </ul>
Executing maps	Linda Bird	<p>Reverse memberOf function</p> <ul style="list-style-type: none"> <li>What refsets is a concept a member of?</li> </ul> <p>Proposed syntax to support execution of maps (Outstanding question: ECL or Query Language? Scope and packaging needs further discussion)</p> <ul style="list-style-type: none"> <li>Example use cases <ul style="list-style-type: none"> <li>Mapping from international substance concepts to AMT substance concepts</li> <li>Anatomy structure and part association reference set - e.g. find the anatomical parts of a given structure</li> </ul> </li> <li>Potential syntax to consider <ul style="list-style-type: none"> <li>Functional <ul style="list-style-type: none"> <li>mapTarget ( Anatomy structure and part association refset , &lt;&lt;  Upper abdomen structure ) <ul style="list-style-type: none"> <li>Return the map targets from the given map refset, where the referencedComponent matches the condition</li> </ul> </li> <li>mapSource ( Anatomy structure and part association refset , &lt;&lt;  Liver part ) <ul style="list-style-type: none"> <li>Return the referencedComponent from the given map refset, where the targetId matches the condition.</li> </ul> </li> </ul> </li> <li>Dot notation + Attribute refinement <ul style="list-style-type: none"> <li> Anatomy structure and part association refset  .  mapTarget </li> <li> Anatomy structure and part association refset  .  referencedComponent  (Same as ^  Anatomy structure and part association refset )</li> <li>(  Anatomy structure and part association refset  :  referencedComponent  = &lt;&lt;  Upper abdomen structure  ) .  mapTarget </li> <li>(  Anatomy structure and part association refset  :  mapTarget  = &lt;&lt;  Upper abdomen structure  ) .  referencedComponent </li> </ul> </li> <li>Dot notation + Filters <ul style="list-style-type: none"> <li>(  Anatomy structure and part association refset  {{  referencedComponent  = &lt;&lt;  Upper abdomen structure  }} ) .  mapTarget </li> <li>(  Anatomy structure and part association refset  {{ mapTarget = &lt;&lt;  Upper abdomen structure  }} ) .  referencedComponent  <ul style="list-style-type: none"> <li>^ (  Anatomy structure and part association refset  {{ mapTarget = &lt;&lt;  Upper abdomen structure  }} )</li> </ul> </li> </ul> </li> <li>Specify value to be returned <ul style="list-style-type: none"> <li>? mapTarget ?  Anatomy structure and part association refset </li> <li>? mapTarget ?  Anatomy structure and part association refset  {{  referencedComponent  = &lt;&lt;  Upper abdomen structure  }}</li> <li>? mapTarget ?  Anatomy structure and part association refset  :  referencedComponent  = &lt;&lt;  Upper abdomen structure </li> </ul> </li> </ul> </li> </ul>

Returning attributes	Michael Lawley	<p>Proposal from Michael:</p> <ul style="list-style-type: none"> <li>Currently ECL expressions can match (return) concepts that are either the source or the target of a relationship triple (target is accessed via the 'reverse' notation or 'dot notation', but not the relationship type (ie attribute name) itself.</li> </ul> <p>For example, I can write:</p> <pre>&lt;&lt; 404684003 Clinical finding  : 363698007 Finding site  = &lt;&lt;66019005 Limb structure </pre> <pre>&lt;&lt; 404684003 Clinical finding  . 363698007 Finding site </pre> <p>But I can't get all the attribute names that are used by &lt;&lt; 404684003 Clinical finding </p> <ul style="list-style-type: none"> <li>Perhaps something like: <ul style="list-style-type: none"> <li>? R.type ? (&lt;&lt; 404684003  Clinical finding )</li> </ul> </li> <li>This could be extended to, for example, return different values - e.g. <ul style="list-style-type: none"> <li>?  Simple map refset . maptarget  ? (^ Simple map refset  AND &lt;  Fracture )</li> </ul> </li> </ul>
Query Language - Summary from previous meetings	Linda Bird	<p><b>Examples: version and language</b></p> <ul style="list-style-type: none"> <li>&lt;&lt; 64572001  Disease  {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>&lt;&lt; 64572001  Disease  {{ synonym = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>&lt;&lt; 64572001  Disease  {{ FSN = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>&lt;&lt; 64572001  Disease  {{ FSN = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> W</li> <li>&lt;&lt; 64572001  Disease  {{ preferredTerm = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Y</li> <li>&lt;&lt; 64572001  Disease  {{ acceptableTerm = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Y</li> <li>(* {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Z) MINUS (* {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20170731">http://snomed.info/sct/900000000000207008/version/20170731</a>, <b>LANGUAGE</b> W)</li> <li>X MINUS Y <b>WHERE</b> X = *, Y = (* {{ term = "heart*" }}) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> W</li> </ul> <p><b>Notes</b></p> <ul style="list-style-type: none"> <li>Allow nested where, version, language</li> <li>Scope of variables is inner query</li> </ul>
		<p><b>Examples: where</b></p> <ul style="list-style-type: none"> <li>X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547)</li> <li>X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>X MINUS &gt;! Y <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547), Y = (&lt;&lt; 1456) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> 900000000000508004  GB English </li> <li>X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> 999001881000000108 GB clinical extension LRS , 900000000000508004  GB English </li> <li>X minus &gt;! X <b>WHERE</b> X = ( &lt; M <b>WHERE</b> M = (&lt; 1234))) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> 999001881000000108 GB clinical extension LRS , 900000000000508004  GB English </li> </ul> <p><b>Notes</b></p> <ul style="list-style-type: none"> <li>Allow nested variable definitions, but recommend that people don't due to readability</li> <li>Scope of variables is the inner query</li> <li>No recursion e.g X <b>WHERE</b> X = 1234 MINUS X <ul style="list-style-type: none"> <li>ie can't use a variable in its own definition</li> <li>ie X is only known on the left of the corresponding <b>WHERE</b>, and not on the right of the <b>WHERE</b></li> </ul> </li> </ul>

#### Keywords for Term-based searching:

- **D.term**
  - D.term = `"*heart"`
  - D.term = `wild:"*heart"`
  - D.term = `regex:"*heart.*"`
  - D.term = `match:"hear att"`
  - D.term = (sv) `wild:"*heart"`
- **D.languageCode**
  - D.languageCode = `"en"`
  - D.languageCode = `"es"`
- **D.caseSignificancelId**
  - D.caseSignificancelId = 900000000000448009 [entire term case insensitive]
  - D.caseSignificancelId = 900000000000017005 [entire term case sensitive]
  - D.caseSignificancelId = 900000000000020002 [only initial character case insensitive]
- **D.caseSignificance**
  - D.caseSignificance = `"insensitive"`
  - D.caseSignificance = `"sensitive"`
  - D.caseSignificance = `"initialCharInsensitive"`
- **D.typeId**
  - D.typeId = 90000000000003001 [fully specified name]
  - D.typeId = 900000000000013009 [synonym]
  - D.typeId = 900000000000050004 [definition]
- **D.type**
  - D.type = `"FSN"`
  - D.type = `"fullySpecifiedName"`
  - D.type = `"synonym"`
  - D.type = `"textDefinition"`
- **D.acceptabilityId**
  - D.acceptabilityId = 900000000000549004 [acceptable]
  - D.acceptabilityId = 900000000000548007 [preferred]
- **D.acceptability**
  - D.acceptability = `"acceptable"`
  - D.acceptability = `"preferred"`

#### Additional Syntactic Sugar

- **FSN**
  - FSN = `"*heart"`
    - D.term = `"*heart"`, D.type = `"FSN"`
    - D.term = `"*heart"`, D.typeId = 90000000000003001 [fully specified name]
  - FSN = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"FSN"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 90000000000003001 [fully specified name], acceptabilityId = `* LANGUAGE X`
- **synonym**
  - synonym = `"*heart"`
    - D.term = `"*heart"`, D.type = `"synonym"`
    - D.term = `"*heart"`, D.typeId = 900000000000013009 [synonym]
  - synonym = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"synonym"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 900000000000013009 [synonym], (D.acceptabilityId = 900000000000549004 [acceptable] OR D.acceptabilityId = 900000000000548007 [preferred]) `LANGUAGE X`
- **synonymOrFSN**
  - synonymOrFSN = `"*heart"`
    - synonym = `"*heart"` OR FSN = `"*heart"`
    - D.term = `"*heart"`, (D.type = `"synonym"` OR D.type = `"fullySpecifiedName"`)
  - synonymOrFSN = `"*heart" LANGUAGE X`
    - synonym = `"*heart"` OR FSN = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, (D.type = `"synonym"` OR D.type = `"fullySpecifiedName"`), D.acceptability = `* LANGUAGE X`
- **textDefinition**
  - textDefinition = `"*heart"`
    - D.term = `"*heart"`, D.type = `"definition"`
    - D.term = `"*heart"`, D.typeId = 900000000000050004 [definition]
  - textDefinition = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"definition"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 900000000000050004 [definition], D.acceptabilityId = `* LANGUAGE X`
- **Unacceptable Terms**
  - (D.term = `"*heart"`) MINUS (D.term = `"*heart"`, D.acceptability = `* LANGUAGE X`)

		<p>Language preferences using multiple language reference sets</p> <ul style="list-style-type: none"> <li>• LRSs that use the same Language tend to use 'Addition' - i.e. child LRS only includes additional acceptable terms, but can override the preferred term <ul style="list-style-type: none"> <li>◦ E.g. Regional LRS that adds local dialect to a National LRS</li> <li>◦ E.g. Specialty-specific LRS</li> <li>◦ E.g. Irish LRS that adds local preferences to the en-GB LRS <ul style="list-style-type: none"> <li>▪ 99999900  Irish language reference set  <b>PLUS</b>  GB English reference set </li> </ul> </li> </ul> </li> <li>• LRSs that define a translation to a different language tend to use 'Replacement' - i.e. child LRS replaces set of acceptable and preferred terms for any associated concept <ul style="list-style-type: none"> <li>◦ E.g. Danish LRS that does a partial translation of the International Release <ul style="list-style-type: none"> <li>▪ 999999  Danish language reference set  <b>ELSE</b>  GB English reference set </li> </ul> </li> </ul> </li> </ul>
Next steps	Linda Bird	<ul style="list-style-type: none"> <li>• Discuss and plan next steps</li> </ul>
Confirm next meeting date /time	Linda Bird	

File	Modified
Microsoft Excel Spreadsheet RegexCheat.xlsx	2019-Oct-16 by Linda Bird