Annotation Guidelines

Purpose

The purpose of this annotation is to classify propositions extracted from a text into those that would be suitable propositions in a concept map and those that are not.

Annotation Task

Given a list of extracted **propositions**, each consisting of **two arguments and a relation phrase** in between describing their connection, such as

Inadequate resources -- translate into -- inappropriate materials Boys -- need -- a heterosexual male parent

label them with

- 1 > would be a suitable proposition for a concept map
- 0 > otherwise

according to the following general criteria:

- Correctness

The extraction has to be a meaningful proposition at all.

- Context-Independence

The proposition has to be understandable on its own, without any context.

- Suitability for Concept Maps

The arguments have to be concepts, and a meaningful relation between these concepts has to be expressed by the relation phrase.

The extracted proposition is allowed to be ungrammatical and have incorrect upper-/lowercase letters.

Please refer to the next section for detailed instructions and examples.

Detailed Instructions and Examples

Please use the following scheme to make a labeling decision for an extracted proposition:

1. Verify the correctness of the extracted proposition

The automatic extraction process makes errors. Therefore, verify that the given proposition expresses something meaningful at all.

Cues for negative classification:

- o Arguments or relations contain something that is not a word
- o Arguments or relations span over sentence boundaries
- o Arguments or relations contain words that seem to be in no reasonable order
- o The proposition is not a meaningful statement

Not a reason for negative classification:

- o The proposition is ungrammatical / not a proper sentence
 - As long as it can still be understood
- Wrong usage of uppercase
- o Arguments or relations contain an unnecessary word at the beginning or end
 - If it could be corrected by slightly rephrasing the argument / relation

Negative examples:

Step Program -- is Second of -- peers. The

> Arg 2 spans over a sentence boundary and the complete proposition makes no sense at all

A great book – tells -- parents and educators

> Although arguments and the relation look fine, the proposition as a whole is not meaningful, in this case, because "tell" is not a suitable relation between two concepts, we would always want to know who told what to whom, which cannot be expressed in this binary manner.

Positive examples:

Attention Deficit Hyperactivity Disorder – affects -- 3-5% of all children > Perfectly extracted proposition companies -- to lower -- the interest rate

> Relation has unnecessary "to", but can still be understood

2. Verify that both arguments represent concepts

Our definition of a concept is broad, including abstract concepts (*love, problems, control*), activities (*home schooling, treatments*), physical objects (*plane, cars*), persons/groups/organizations (*Barack Obama, children*) among others.

Please check whether something is **not a concept** with the following criteria. If in doubt, assume it is a concept.

Cues that an argument is not a concept:

- o Is a full sentence or very long phrase (latter is just a hint, long concepts also exist)
- o Is on its own a proposition (i.e. contains a verb with arguments)
 - § Typically in extractions like *Peter said the weather is good*
 - § While Peter could be a concept, the second argument is a proposition
- o Unspecific arguments, not meaningful without further context
 - § Unresolved pronouns / references
 - He / she / this / that / them \rightarrow not clear who/what is meant
 - § Determined nouns that are not further specified
 - the boy -> without context, we don't know which specific boy
 - but: boys is a valid concept, and the boy who did X also
- Arguments containing several conflicting concepts
 - § Comparisons, Exceptions, etc.
 - § Boys but not girls \rightarrow not a single concept
 - § But: conjunctions and disjunctions are ok: boys and girls, boys or girls

Cues that something is an argument

- Contains at least one noun
- o Can also contain:
 - § Further nouns, Adjectives, Determiners, Negations, Conjunctions or Disjunctions, Relative Clauses

Negative examples:

- I -- 'm -- 13 years old responsible enough to where I can do basically anything
 - > first argument unspecific, not clear who pronoun references
 - > second argument too long, own sentence

The kids -- to help support -- each other

- > first argument unspecific, not clear which kids are meant
- > second argument not a concept

Positive examples:

Boys -- need -- a heterosexual male parent

Attention Deficit Hyperactivity Disorder – affects -- 3-5% of all children

Kids – should have – hobbies that they love

3. Verify that the relation phrase expresses a meaningful relation between the concepts

Make sure that the relation phrase expresses a relationship between the two concepts in a way that the triple forms a meaningful statement.

Cues that a phrase is not a proper relation label:

- Phrase is very long / full sentence
- o Contains parts that are rather an argument / a concept
- o Its meaning is not clear
 - § Strange word order / partial expression
 - § But: we tolerate an unnecessary to at the beginning of the phrase
- o Not a suitable relationship for the concepts, does not express relationship

Cues that a phrase is a relation label:

o Contains at least one verb or one preposition

Negative examples:

Parents - are positive about trying CBT to -- help them cope

> Relation phrase already introduces a relationship "are positive about" and a target concept "trying CBT", too long

simple things -- can do to -- work on early literacy at home

> Both concepts are fine (abstract concept left, activity right), the relation phrase also expresses a relation, but it doesn't make sense for the concepts (*things* cannot *work*)

Positive examples:

employment

Homeschooling -- would likely be acceptable to -- the general public > Valid relation phrase

homeschool graduates -- to pursue -- either post-secondary education or

> Valid, although the "to" is superflous and makes the phrase ungrammatical here

4. Label proposition positively

In case you reach this step and the proposition met all described requirements, label it with 1.