

Using the Parsing Tool

Active Structure on
Training Wheels



Anti-Money Laundering and Counter-Terrorism Financing Act 2006

No. 169, 2006

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The AML/CTF Act – it runs to 250 pages

A Sentence Can Run to 600 Words

designated agency means:

- (a) the Australian Crime Commission; or
 - (b) ASIO; or
 - (c) the Australian Commission for Law Enforcement Integrity; or
 - (d) the Australian Competition and Consumer Commission; or
 - (f) the Australian Federal Police; or
 - (g) the Australian Prudential Regulation Authority; or
 - (ga) ASIS; or
 - (gb) AGO; or
 - (gc) DIO; or
 - (gd) ASD; or
 - (ge) ONI; or
 - (gf) the Australian Charities and Not-for-profits Commission; or
 - (h) the Australian Securities and Investments Commission; or
 - (ha) the Clean Energy Regulator; or
 - (hb) the Attorney-General's Department; or
 - (i) the Human Services Department; or
 - (k) a Commonwealth Royal Commission whose terms of reference include inquiry into whether unlawful conduct (however described) has, or might have, occurred; or
 - (ka) the Department of Foreign Affairs and Trade; or
 - (l) the Immigration Department; or
 - (m) IGIS; or
 - (n) the Treasury Department; or
 - (o) an authority or agency of the Commonwealth, where the authority or agency is specified in the regulations;
- or
- (p) the police force or police service of a State or the Northern Territory; or
 - (q) the New South Wales Crime Commission; or
 - (r) the Independent Commission Against Corruption of New South Wales; or
 - (s) the Law Enforcement Conduct Commission of New South Wales; or
 - (sa) the Independent Broad-based Anti-corruption Commission of Victoria; or
 - (t) the Crime and Corruption Commission of Queensland; or
 - (u) the Corruption and Crime Commission of Western Australia; or
 - (uaa) the Independent Commissioner Against Corruption of South Australia; or
 - (ua) the Integrity Commission of Tasmania; or

It would be useful
for an intelligent AML/CTF System
to know the Act in detail

Wordgroups

The text has a lot of multi-word objects, ranging from the simple

designated agency means:

(a) the Australian Crime Commission;

to the more complicated

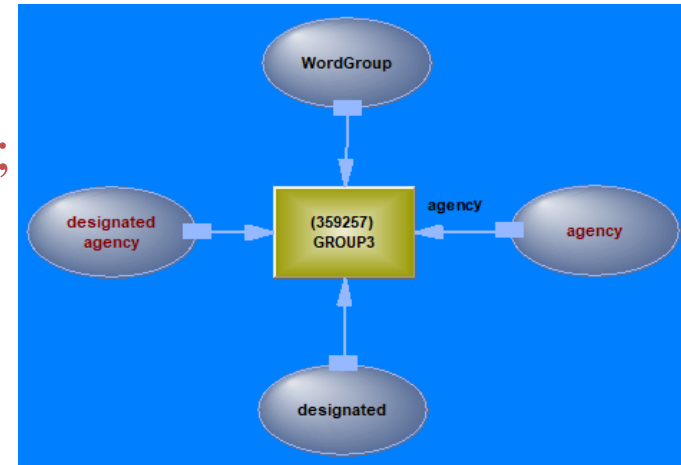
Suspicious matter reporting obligation

(1) A suspicious matter reporting obligation arises for a reporting entity in relation to a person (the *first person*) if, at a particular time (the *relevant time*):

to

multiple-institution person-to-person electronic funds transfer instruction

These are created using wordgroups - groups of words that have a specific meaning.



Parsing Tool

This is a set of training wheels, needed while the system is learning how to handle multiple Parts of Speech (a word can be a noun, a verb, a preposition), multiple forms (a verb may have half a dozen forms – transitive, etc) and multiple definitions. We don't think about these things – it is all automatic – but the machine has to learn this – rather like a jigsaw puzzle, where the words can only fit together a certain way.

Let's Start Simple

The quick brown fox jumps over the lazy dog.

Edit

Update

Cancel

Parse

Match wordgroups during parse

Scan Sentence for Wordgroups

Get Definition

Next Definition

Load Sentence...

Save Sentence

Dismiss

The window for parsing a sentence

First Pass Gives Us Possible Parts of Speech

Possible Parts of Speech

Shows state of all words in sentence – may be hundreds

BeginSentence The quick brown fox jumps over the lazy dog EndSentence

Edit Update Cancel Parse

BeginSentence	The	quick	brown	fox	jumps	over
POS	POS DefiniteArticle	POS Adjective Adverb Noun	POS Adjective Noun Verb	POS Noun Verb	POS Noun Verb	POS Adverb Noun Preposition PrepositionVerb
Subcategory	Subcategory	Subcategory	Subcategory	Subcategory	Subcategory	Subcategory
Source Definition	Source Definition Sense 0 used to emphasi...	Source Definition	Source Definition	Source Definition	Source Definition	Source Definition

Starting to Apply Constraints

BeginSentence The quick brown fox jumps over the lazy dog EndSentence



Edit Update Cancel Parse

BeginSentence	The	quick	brown	fox	jumps	over	
POS	DefiniteArticle	Adjective	Adjective	Noun	Verb	Adverb Noun Preposition PrepositionVerb	
Subcategory					IntransitiveVF TransitiveVF		
Source	Definition	Source	Definition	Source	Definition	Source	Definition
	Sense 0 used to emphasi...	Sense 0 moving fast or doin...	Sense 0 of a color produced...	Sense 0 a carnivorous mam...			
		Sub Se... lasting or taking a s...	Sub Se... (of bread) light bro...	Sub Se... the fur of a fox			
		Sub Se... happening with litt...	Sense 1 (of a person) prom...	Sense 1 a cunning or sly pe...			
		Sense 1 (of a person) prom...	Sense 0 moving fast or doing something in a short time				
		Sense 2 (of a person's eye ...	Sub Sense 0 lasting or taking a short time				
		Sense 3 (of a person's temp...	Sub Sense 1 happening with little or no delay; prompt				
			Sense 1 (of a person) prompt to understand, think, or learn; intelligent				
			Sense 2 (of a person's eye or ear) keenly perceptive; alert				
			Sense 3 (of a person's temper) easily roused				

Match wordgroups during parse Scan Sentence for Wordgroups Get Definition Dismiss

Selecting a definition

- These start off as strings from a dictionary.
- When selected, they also get built as structures

Verb forms – having different definitions

Grouping Words

BeginSentence The quick brown fox jumps over the lazy dog EndSentence

Edit

Update

Cancel

Parse

entence	The	quick	brown	fox	jumps	over
POS	DefiniteArticle	Adjective	Adjective	Noun	Verb	Preposition
Subcategory					IntransitiveVF	ActionNounPF NounNounPF VerbNounPF
Source	Sense 0 used to emphasi...	Sense 0 moving fast or d...	Sense 0 of a color produc...	Sense 0 a carnivorous m...	Sense 0 push oneself off ... Sub S... pass over (an ob... Sub S... (of an athlete or ... Sub S... get on or off (a t... Sense 1 (especially of pri... Sense 2 (of a place) be f... Sense 3 take summary po...	

The words that form a noun phrase are selected

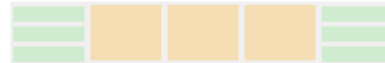
Rolling Up a Phrase

BeginSentence The quick brown fox jumps over the lazy dog EndSentence



Edit

Update



BeginSentence

NounPhraseGroup

ActiveVerbPhrase

NounPhraseGroup

EndSentence

POS

The quick brown fox

jumps over

the lazy dog

POS

Subcategory

Source	Definition

Subcategory

Source	Definition

Match wordgroups during parse

Scan Sentence for Wordgroups

Get Definition

Next Definition

Load Sentence...

Save Sentence

View at Document Level

transfer instruction.htm

instruction

POS
Noun

Subcategory

Source	Definition
<input checked="" type="checkbox"/> Sense 0	a direction or order
<input type="checkbox"/> Sub Sen...	a code in a prog...
<input type="checkbox"/> Sense 1	detailed informa...
<input type="checkbox"/> Sense 2	a teaching process
<input checked="" type="checkbox"/> Sense 2	the process of r...

Apply to all instances

Options...

(ii) a bank; or
(iii) a building society; or
(iv) a credit union; or
(v) a person specified in the AML/CTF Rules;
then:
(e) the instruction is a Multiple-institution person-to-person electronic funds transfer instruction; and
(f) if there are one or more persons interposed between the ordering institution and the beneficiary institution—disregard those interposed persons in working out the identities of the following:
(i) the payer;
(ii) the ordering institution;
(iii) the payee;
(iv) the beneficiary institution.
Note: Transfer has an extended meaning—see section 5.
Same-institution person-to-person electronic funds transfer instruction
(2) for the purposes of this Act, if
(a) a person (the payer) instructs a person (the ordering institution) to transfer money controlled by the payer to a third person (the payee) on the basis that the transferred money will be made available to the payee by:
(i) being credited to an account held by the payee with the ordering institution; or
(ii) being paid to the payee by the ordering institution; and
(b) the transfer is to be carried out wholly or partly by means of one or more electronic communications; and
(c) the ordering institution is:
(i) an ADI; or
(ii) a bank; or
(iii) a building society; or
(iv) a credit union; or
(v) a person specified in the AML/CTF Rules;
then:
(d) the instruction is a Same-institution person-to-person electronic funds transfer instruction; and
(e) for the purposes of the application of this Act to making the money available to the payee, the ordering institution may also be known as the beneficiary institution.
Note: Transfer has an extended meaning—see section 5.

Open File... Save File... Analyse Content Parse Content

View Sentences Save Sentence Dismiss

Every word and group of words in the document is linked to a definition in the document, or a definition for the word, making it much easier to follow. and providing machinery to observe its operation

System Resources

Dictionary: 45,000 words

Wordgroups: 15,000

Dictionary Definitions: 85,000 as built structure

Free Resources: 30 million network elements

Dictionary lookup for unknown words

Database for known objects – “Millie from Accounts”

Instructions in English to change internal workings

No Four Pieces Limit

Can it handle your problems?

Outrageous Claims

We are not going to make outrageous claims. What we will say is that an active structure approach, in today's increasingly complex and dynamic world, leaves data-based methods in the dust, where they belong.

We don't drive by only looking in the rear vision mirror, and neither should you.



Active Structure

by
Interactive Engineering

