Langsoft, Switzerland

Brief Description of Langsoft Technology - software, source code and databases with full list of the

Software Programs

NATURAL LANGUAGE TEXT PROCESSING SYSTEM									
Name of project	Number of	Number of	Stage of development	source code	c(pp) files	h (inl/inc)	Compiler	dic. word	
OS Windows	languages in	software		lines		files		entries	
	the project	programs		(approx.)					
1) Parsing - Syntactical analysis of the sentence.	4	7	completed						
Uses the traditional approach to parsing.									
Natural Language Parsing is the basis of Natural Language									
Processing. Without accurate parsing no Natural Language									
Processing application works correctly!									
The DOS, Win 16. 32 Bit, software display Parts of Speech (Noun, Ver	b, Adjective, etc.) a	nd Parts of the Se	ntence (Subject, Complement Subje	ect, Verb and verba	al tense, Object Dir	ect, Object Indirect	, Complement Obje	ct, etc.)	
English - 16, 32 Bit - menu, displays Parts of	1	1		261,811	41	24	Borland	55,452	
Speech and Parts of the Sentence, saves to file									
English - 16, 32, 64 Bit - console application,	1	1		990,000	60	28	Borland/Vis	100,623	
displays Parts of Speech							ual Studio		
German - 16, 32 Bit - menu, displays Parts of	1	1		263,321	41	24	Borland	165,639	
Speech and Parts of the Sentence, saves to file									
German - 16, 32, 64 Bit - console application,	1	1		990,000	60	28	Borland/Vis	182,348	
displays Parts of Speech							ual Studio		
French - 16, 32 Bit - menu, displays Parts of	1	1		262513	41	24	Borland	80,670	
Speech and Parts of the Sentence, saves to file									
French - 16, 32, 64 Bit - console application,		1		990,000	60	28	Borland/Vis	100,623	
displays Parts of Speech							ual Studio		
Italian - 16, 32 Bit - menu, displays Parts of		1		256,539	41	24	Borland	40,358	
Speech and Parts of the Sentence, saves to file									
1a) Semantical parsing - Syntactical and	2	4	completed						
Semantical analysis of the sentence. Displays word									
meaning.									

Facility 16, 20 P's area of the Property of Country	1	1		266 207	141	124	D1 1	50.614
English - 16, 32 Bit- menu, displays Parts of Speech,		1		266,387	41	24	Borland	59,614
Parts of the Sentence and word meaning, saves to file								
		1		0	60	28	Visual	100 (22
English - 16, 32, 64 Bit- console application,		1		Over 1,000,000	60	28		100,623
displays Parts of Speech and word meaning		1		/ /	4.1	2.4	Studio	165 620
German - 16, 32 Bit- menu, displays Parts of Speech,		1		267,803	41	24	Borland	165,639
Parts of the Sentence and word meaning,								
saves to file		1			60	20	X7' 1	102 240
German - 16, 32, 64 Bit- console application,		1		Over	60	28	Visual	182,348
displays Parts of Speech and word meaning		_		1'000,000			Studio	
2) Spelling - Orthographical and Grammatical	4	7	completed					
spell-checking of the sentence. A learning tool that								
significantly improves access and quality of education.								
The DOS, Win 16, 32 Bit software verifies the correct usi	e of Prepositions. D	lisplays statistics	of the orthographical and of the	grammatical (conco	rd, usage, verb rela	ated) errors. Displa	ys the total number	of errors, their
percentage and the number of words and sentences spellchecked. S						, ,	,	·
English - 16, 32 Bit - menu, displays spelling	1	1		257,669	41	23	Borland	58,018
choice, saves to file				ŕ				ŕ
English - 16, 32, 64 Bit - console application,	Same as Engl	lish into plain	English MT	•	•	1	1	•
corrects, automatically, the wrong spelling		1	C					
German - 16, 32 Bit - menu, displays spelling		1		263,321	41	24	Borland	165,639
choice, saves to file				ŕ				ŕ
German - 16, 32, 64 Bit - console application,	Same as Gerr	nan into plain	German MT	•	•	-	1	
corrects, automatically, the wrong spelling		•						
French - 16, 32 Bit - menu, displays spelling choice,		1		258022	41	23	Borland	80,655
saves to file								
French - 16, 32, 64 Bit - console application,		1		990,000	60	28	Borland/Vis	100,623
corrects, automatically, the wrong spelling							ual Studio	
Italian - 16, 32 Bit - menu, displays spelling choice,	1	1		256,539	41	24	Borland	40,358
saves to file								
3) Question answering - Answers	2	5	completed					
questions - accurate answer and probable answer								
English - 16, 32 Bit - menu, answers questions, saves		1		260,810	41	23	Borland	60,816
the question and its answer to file		1		200,010	71	23	Doriana	00,010
German - 16, 32 Bit - menu, answers questions,		1		261,482	41	23	Borland	165,900
saves the question and its answer to file		1		201,402	71	23	Domaila	103,700
English Dialogue System - 16, 32, 64 Bit - console		1		Over	60	28	Visual	88,235
		1		1,000,000		20	Studio	00,233
application, a chatbo t, answers questions, asks				1,000,000			Studio	

iss answer to file. Ear lead continuous conversation with the user on various subjects. The letest version can answer user questions with vice and video clips. The method is covered by U.S. patent U.S. 25560365 BI Berman Bladogue System - 16, 32, 64 Bit - console application, a chalabot, answers questions, asks questions based on user input, saves the question and its answer to file. Ear lead continuous conversation with the user on various subjects. The latest version can answer user questions with vioce and video clips. The method is covered by U.S. patent U.S. 2550035 BI 5) Question answering with pictures - English - console application, answer questions, displays a photo as answer 4) Text attribution - Recognize the mening of the sance and attributes to a them of discourse. Lan be used as an eccurate text classification and text attribution tool. English 1 - menu, displays word meaning, theme of discourse, saves to file English 3 - menu, displays word meaning, theme of discourse, saves to file English 3 - menu, displays word meaning, theme of discourse, saves to file English 3 - menu, displays word meaning, theme of discourse, saves to file English 3 - menu, displays word meaning, theme of discourse, saves to file English 4 - console application, displays word meaning, theme of discourse, saves to file English 4 - console application, displays word meaning, theme of discourse, saves to file. English 5 - menu, displays word meaning, theme of discourse, saves to file. English 5 - menu, displays word meaning, theme of discourse, saves to file. English 6 - console application, displays word meaning, theme of discourse, saves to file. English 7 - menu, displays word meaning, theme of discourse, saves to file. English 8 - console application, displays word meaning, theme of discourse, saves to file. English 9 - menu, displays word meaning, theme of discourse, saves to file. English 9 - menu, displays word meaning, theme of discourse, saves to file. English 9 - menu, displays word meaning, theme		1	1		1	1	1		
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discourse , saves to file. German 2 - menu, displays word meaning, theme of discourse, saves to file. German 3 - console application, displays word meaning, theme of discourse, saves to file, makes frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 0 0ver 60 23 Visual Studio 293,876		4	4		260.500			D 1 1	166,000
German 2 - menu, displays word meaning, theme of discourse, saves to file. German 3 - console application, displays word meaning, theme of discourse, saves to file, makes meaning, theme of discourse, saves to file, makes frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876		1	1		268,598			Borland	166,000
discourse, saves to file. German 3 - console application, displays word meaning, theme of discourse, saves to file, makes frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876		1	1		260,500			Darland/	166,000
German 3 - console application, displays word meaning, theme of discourse, saves to file, makes frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876		1	1		208,398			DOFIANO/	100,000
meaning, theme of discourse, saves to file, makes frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876	*	1	1		Over	60	28	Vicual	182 3/18
frequency list of meanings. Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876		1	1				20		102,540
Cross-language (German & English) - console appl., 1 1 1 Over 60 23 Visual Studio 293,876					1,000,000			Stadio	
		1	1		Over	60	23	Visual Studio	293.876
	displays word meaning, theme of discourse, saves to								

file, makes frequency list of meanings.								
Cross-language (German & English) - menu,	1	1		261,482	41	28	Borland	229523
displays word meaning, theme of discourse, saves to								
file.								
Machine Translation - Provides understar	ıdable translation	of what is mear	nt by the original text. The text no	eeds post-editing				
5) German-English MT (Machine Translation)	2	1	completed	983,545	60	28	Borland/Vis	261,793
saves the translation to a file							ual Studio	
6) English-German MT, saves the translation	2	1	completed	980,786	60	28	Borland/Vis	129,900
to a file							ual Studio	
7) English-Russian MT, saves the translation	2	1	completed	982,945	59	29	Borland/Vis	98,595
to a file, console application							ual Studio	
7a) English-Russian MT , saves the translation			completed	994,000	77	57	Borland 3.0	98,595
to a file, menu, processes files and direct input								
8) German-Russian MT , saves the translation	2	1	completed	982,945	59	29	Borland/Vis	35,573
to a file, console application							ual Studio	
8a) German-Russian MT , saves the translation			completed	994,000	77	57	Borland 3.0	35,573
to a file, menu, processes files and direct input								
9) French-Russian MT , saves the translation to	2	1	completed	984,012	59	29	Borland/Vis	113,891
a file, console application							ual Studio	
9a) French-Russian MT , saves the translation			completed	994,000	77	57	Borland 3.0	113,891
to a file, menu, processes files and direct input								
10) English into plain English MT,	1	1	completed	980,786	60	28	Borland/Vis	81,085
automatically corrects spelling errors, replaces words							ual Studio	
with their better known synonyms	1	1	1 . 1	000 706	60	20	D 1 1/57	172 ((2
11) German into plain German MT,	1	1	completed	980,786	60	28	Borland/Vis ual Studio	173,663
automatically corrects spelling errors							uai Studio	
Electronic Thesauri - Groups, automatic	ally, the words ac	cording to their			ieaning.			
12) English Electronic Thesaurus	1	1	completed	2734	1	1	Borland/Vis	23,404
	1	1	1 . 1	2716	1	1	ual Studio	10.777
13) Linguistic thesaurus. Groups, automatically, the	4	1	completed	2716	1	1	Borland/Vis ual Studio	12,777
linguistic terminology according to its meaning and role.		1	1 . 1	2702		1		2.525
14) Location of geographical names. Groups,	4	1	completed	2783	1	1	Borland/Vis	2,527
automatically, the geographical names according to their							ual Studio	
location, adjacent names, denomination, etc.								

15) Automated Reasoning (Logical Inference) The method is covered by U.S. patent	2	3	under development					
U.S.8560305 B1								
English, makes logical inference to find implicit information in Natural Language Sentence and saves it to file		1		259,726	41	24	Borland	57,000
English, makes logical inference to find implicit information in Natural Language Sentence and saves it to file		1		990,000	60	28	Visual Studio	100,623
German , makes logical inference to find implicit information in Natural Language Sentence and saves it to file		1		990,000	60	28	Visual Studio	182,348
16) Text to video , single language		2	Developed, Vers. 1					
16a) English - English , displays the meaning of the sentence in motion pictures	1	1	Developed, Vers. 1	Over 1,000,000	60	28	Visual Studio	88,238
16b) German - German , displays the meaning of the sentence in motion pictures	1	1	Developed, Vers. 1	Over 1,000,000	60	28	Visual Studio	182,274
17) Text to voice , single language		2	completed					
17a) English - English , hear in English what you write	1	1	Version 2.0 completed	Over 1,000,000	60	28	Visual Studio	88,264
19aa) English - English - including homophones, hear in English what you write	1	1	Version 1.0 completed	Over 1,000,000	60	28	VS	88,300
17b) German - German , hear in German what you write	1	1	Version 1.0 completed	Over 1,000,000	60	28	Visual Studio	182,273
18) Text to voice MT , bilingual		4	completed					
18a) Text to voice MT, German-English, write in German, hear (and see) the translation in English	2	2	Version 2.0 completed	Over 1,000,000	60	28	Visual Studio	274,570
18b) Text to voice MT, English-German, write in English, hear (and see) the translation in German	2	2	Version 2.0 completed	Over 1,000,000	60	28	Visual Studio	122,000
18ba) Text to voice MT, English-German - including homophones, write in English, hear (and see) the translation in German	1	1	Version 1.0 completed	Over 1,000,000	60	28	VS	100,000
20) Text to video and voice, single language		2	completed					
20a) English text to video and voice, write in	1	1	Version 1 complete	Over	60	28	Visual	122,000

English, hear and see what is meant in motion				1,000,000			Studio	
pictures								
20b) German text to video and voice, write in	1	1	Version 1complete	Over	60	28	Visual	182,273
German, hear and see what is meant in motion			1	1,000,000			Studio	
pictures								
21) Text-to-Video-to-Voice MT , bilingual		6	completed					
21a) English-German Text-to-Video-to-Voice MT,	2	2	Version 1 complete	Over	60	28	Visual	122,000
write in English, hear and see what is meant, in			1	1,000,000			Studio	
motion pictures, in German								
21b) German-English Text-to-Video-to-Voice MT,	2	2	Version 1 completed	Over	60	28	Visual	274,570
write in German, hear and see what is meant, in			_	1,000,000			Studio	
motion pictures, in English								
21c) German-Russian Text-to-Video-to-Voice MT,	2	1	under development	Over	60	28	Visual	274,570
write in German, hear and see what is meant, in			of the video clips	1,000,000			Studio	
motion pictures, in Russian			1					
21d) English-Russian Text-to-Video-to-Voice MT,	2	1	under development	Over	60	28	Visual	122,000
write in English, hear and see what is meant, in			of the video clips	1,000,000			Studio	
motion pictures, in Russian			T T					
Total program	s:	62						

Completed means versions 2, 3 or 4.

Under development means that there is a prototype, version 1.0, to show how the software program works and what it can do.

Eleven auxiliary programs for various electronic dictionaries are not included in this list.

Note: Two third of the code is the same for all applications that have around 260,000 lines (older versions, with menu) or around 990,000 lines (newer versions, no menu, console applications). Approximately one third is different, depending on the language and on the task.

The Dictionaries are specific to Language and task. Some are very similar, some are quite different, because of the task, some contain phrases, some, like those for text-to-voice and text-to-video, have very few phrase entries in them. Some Dictionaries have very few semantic codes, others have extensive semantic description for almost each word entry.

The programs with menu, compiled on Borland, run on DOS, Windows 16 and 32 Bit and on Linux and Unix, in DOS mode. The programs compiled on Visual Studio run on Windows 16, 32 and 64 Bit.

All console applications, listed above, can compile as QT multi-platform projects on Visual Studio version 2015.

Description of the software projects, video clips, download of timed commercial copies for evaluation can be found on HTML pages and PDF files under menu items at our website:

https://www.langsoft.ch