

## Material for the Word Sense Disambiguation task

<b>Task</b>	Assign the correct sense to the target word “line” (“lines”, “lined”)
<b>Objects</b>	Sentences containing the target word (“line”, “lines”, “lined”)
<b>Target class</b>	Possible senses: CORD, DIVISION, FORMATION, PHONE, PRODUCT, TEXT

### Feature vector

feature	type	definition	designed for
A1	binary	L-1 is one of trail   strong   nylon   tow   safety   shroud   anchor   exercise   rope	CORD
A2		L-1 is one of fine   racial   class   thin   bright   legal   regional   political   partisan   ethic   draw   clear	DIVISION
A3		L-1 is one of long   checkout   straight	FORMATION
A4		L-1 is one of telephone   access   direct   gab   customer   open   subscriber   free   complaint   chat   private   phone   subscribe	PHONE
A5		L-1 is one of computer   car   products   ibm   product   broad   minicomputer   broad   truck   model   care   vax   apparel   jeep   drug   cosmetics   sportswear   clothing   shoe	FORMATION
A6		L-1 is one of open   famous   good   funny   every   cover   close	TEXT
A7		L+1 is one of increase   charge   open   busy   grow	PHONE
A8		L+1 is one of extension   include   last	PRODUCT
A9		L+1 is between	
A10		L-1 or L-2 or L-3 or L-4 is one of toll-*   direct   phone   subscribe	PHONE
A11		TW.Sfun prep_on	
A12	categorical	L-1	
A13		L-2	
A14		L-3	
A15		L+1	
A16		T-1	
A17		T+1	
A18		T+2	
A19		TW.Form (= line   lines   lined)	
A20		TW.Sfun	

### Legend

<b>TW</b>	target word
<b>L-n</b>	lemma of the n-th word before TW
<b>L+n</b>	lemma of the n-th word after TW
<b>T-n</b>	morphological tag of the n-th word before TW
<b>T+n</b>	morphological tag of the n-th word after TW
<b>TW.Form</b>	form of the target word
<b>TW.Sfun</b>	syntactic function of the target word

## Quiz for the Word Sense Disambiguation task

- Assume the following possible senses of the word “line”:

- (a) CORD
- (b) DIVISION
- (c) FORMATION
- (d) PHONE
- (e) PRODUCT
- (f) TEXT

- Assign the correct senses to the target word “line” in the following sentences:

sentence		sense (a)-(f)
1.	I've got Inspector Jackson on the <b>line</b> for you.	
2.	He didn't catch many fish, but it hardly mattered. With his <b>line</b> out, he sat for hours staring at the Atlantic.	
3.	LTV plans to reorganize around its aerospace and defense unit, its only profitable <b>line</b> .	
4.	This proposal is a matter between two companies, and a <b>line</b> should be drawn between the two.	
5.	Outside, a <b>line</b> of customers waited to get in.	
6.	These companies rent private telephone <b>lines</b> .	
7.	Important parameters of a fishing <b>line</b> are its length, material, and weight.	
8.	The company has just launched a new <b>line</b> of small, low-priced computers.	
9.	Draw a <b>line</b> that passes through the points P and Q.	
10.	Please hold the <b>line</b> .	
11.	He quoted a few <b>lines</b> from Shakespeare.	
12.	The first <b>line</b> is usually composed of the best offensive players on the team.	
13.	He drew a <b>line</b> on the chart.	
14.	Because of a production error some <b>lines</b> were dropped in an earlier edition.	
15.	This has been a very popular new <b>line</b> .	
16.	She hung the washing on the <b>line</b> .	
17.	The four men were standing in a <b>line</b> on the other side of the table.	
18.	Drop me a <b>line</b> when you get there.	

- What knowledge do you use to assign the senses?
- What are the keys for the correct decision?
- Which sentences are easy to recognize the correct sense and which are difficult for you?