

# Giochi linguistici per annotazione semantica: il caso di Wordrobe

Valerio Basile

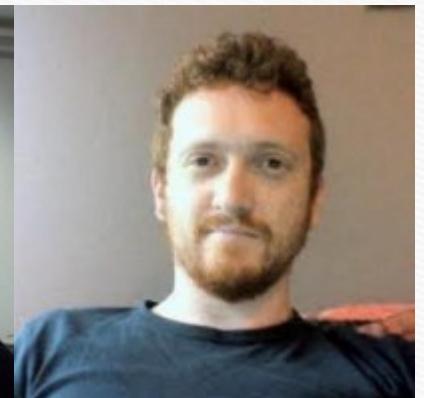
28/4/2014



university of  
groningen

# Center for Language and Cognition

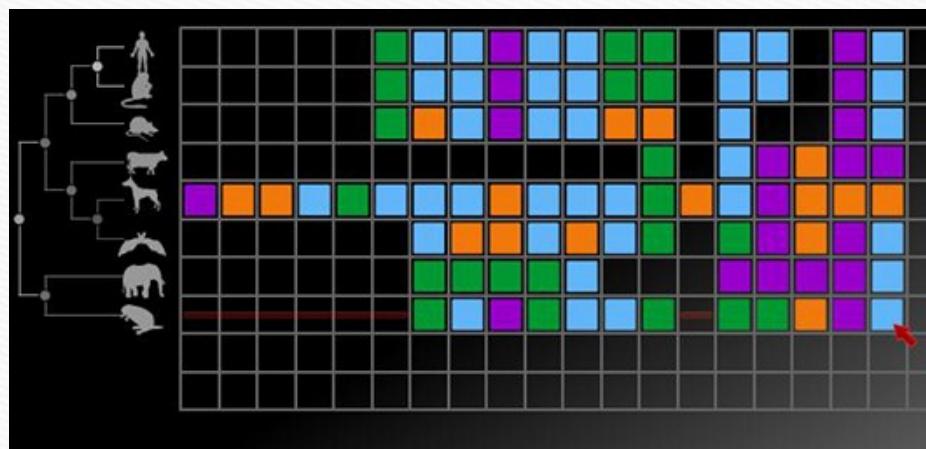
## Computational Linguistics group



Johan  
Bos

Kilian    Johannes    Noortje    Valerio  
Evang    Bjerva    Venhuizen    Basile

# Game With A Purpose



Dr. David Baker

Several sheets are lining up in this protein, but one is out of place. Pull the misaligned sheet back in to form hydrogen bonds! Don't forget you can control-click to lock, and use Shake and Wiggle.

Repeat Introduction Clear Labels

Progress: 8899 of 10000

Level 4-2: A Sheet Out of Place

Chat

Actions History File

Shake Sidechains Backbone Clear Locks Reset Puzzle

Help |

Google™ Image Labeler BETA

Google Image Labeler

time left  
01:47

score  
0

passes  
0

label pass

Your partner has suggested 4 labels.

off-limits

- spaghetti
- pasta
- food
- green
- noodles

my labels

zoom out!

Phrase Detectives - The AnkiWiki annotation game - Mozilla Firefox

File Edit View History bookmark Tools Help

http://www.phrasedetectives.org/

USERPROFILE

ude 242 this week 153 agreements 138 agreements 242 this month 104 decisions 138 agreements 242 all time 104 decisions 138 agreements Level: Detective Your rating: 87% CASE OPEN: 18 tasks remaining 11 cases completed LOGOUT

PHRASE•DETECTIVES

NAMED THE CULPRIT

Has the phrase shown in orange has been mentioned before in this text? Use your mouse to select the closest phrase(s) where it has been mentioned before.

Tories plan 'alcopops' tax hike

The Conservatives say they will raise tax on super-strength beer, cider and alcopops to tackle binge drinking if they win the next general election. Tax on alcopops would be trebled, but money raised would be used to reduce tax on low-strength beer and cider. A spokeswoman for the chancellor said there was no provision in European law for a separate tax on alcopops. She added that their sales were going down. Duty on spirits has been frozen since 1998 and Chancellor Alastair Darling is expected to raise alcohol taxes in next week's budget. BBC political correspondent Reeta Chakrabarti said the Conservatives wanted to put pressure on ahead of the budget by showing how they would tackle under-age and binge-drinking through the tax system.

SEARCHCLUES

Words like they, him, her and others are likely to refer to something else in the text.

Words like or them are likely to refer to more than one thing in the text.

Always look for the closest previous mention of the phrase to score maximum points.

Instructions Found it! Skip this one

Not mentioned before

Restart

javascript:document.form2.submit()

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Game With A Purpose

Game

With A

# Purpose



Linguistica  
Computazionale



Game

With A

# Purpose



## Linguistica dei Corpora

ia ) . A <Barcellona> è intestato al maggio a <Barcellona> che fu per la prima volta la capitale europea di <Barcellona> il 24 con il quale si è aperto il festival per il <Barcellona> quello che ha avuto luogo a Valencia - <Barcellona> di campionato di calcio. I primi a farlo furono . A <Barcellona> non ha fatto parte della Lega spagnola dal 1981-65 ; <Barcellona> - Progetto di rinnovamento culturale di <Barcellona> P.G. - ME - Madrid e <Barcellona> . Nel maggio 1986, a Barcellona, si è svolto un grande raduno ? « A <Barcellona> ho appena finito : il <Barcellona> , negli anni 80, è stato un grande successo . A <Barcellona> ci arriverà anche il prossimo anno . A <Barcellona> ci arriverà anche il prossimo anno andare a <Barcellona> , una fortunata " linea " di <Barcellona> . Inizialmente, però, il progetto era destinato a essere realizzato solo a <Barcellona> . A <Barcellona> ( 1.700.000 abitanti ) , il progetto del nuovo stadio del <Barcellona> , e poi a <Barcellona> con il progetto del nuovo stadio del <Barcellona> il Milan .

Game

With A

# Purpose

Clinton	's	mother	prayed	fervently	that	Bill	would	grow	up	and	be	president	.
NNP	POS	NN	VBD	RB	IN	NNP	MD	VB	RB	CC	VB	NN	.
clinton	's	mother	pray	fervently	that	bill	would	grow	up	and	be	president	.
Person	O	O	O	O	O	O	O	O	O	O	O	O	O
Human	O	Human	O	O	O	Human	O	O	O	O	O	Non-concrete	O

So	far	,	half	of	her	prayer	has	been	answered	.	.	.	.
RB	RB	,	NN	IN	PRP\$	NN	VBZ	VBN	VBN	.	.	.	.
so	far	,	half	of	her	prayer	have	be	answer	.	.	.	.
O	O	O	O	O	O	O	O	O	O	O	O	O	O
O	O	O	Time	O	Non-concrete	Non-concrete	O	O	O	[Theme,Agent]			

Game

With A

# Purpose

The screenshot shows a semantic editor interface with two main panels:

**Ukraine** panel (left):

- Selected type: NNP ▾
- Sub-type: Location ▾
- Options: O, Person, Organization, Location, GPE, Artifact, Event, Natural\_Object, Time.
- Annotation:  $\lambda v0. \lambda v1. \lambda v2. (v1 @ \lambda v3. ( e5 p6 t8 t9 ; (v2 @ e5) ) )$
- Annotation details:
  - Annotation: now(t8)
  - Condition:  $e5 \subseteq t9$
  - Condition:  $t9 = t8$

**says** panel (right):

- Selected type: VBZ ▾
- Sub-type: O ▾
- Annotation: 1: state say tell
- Annotation details:
  - Annotation: now(e5)

A tooltip or suggestion box is displayed over the 'Location' dropdown in the Ukraine panel, containing the following text:

Himalaya, Amazon Rainforest, Atlantic Ocean, Rhine,  
Venus, Milky Way, 742 Evergreen Terrace Springfield, http://  
gmb.let.rug.nl, chunkylover53@aol.com, 0629555697...

Game

With A

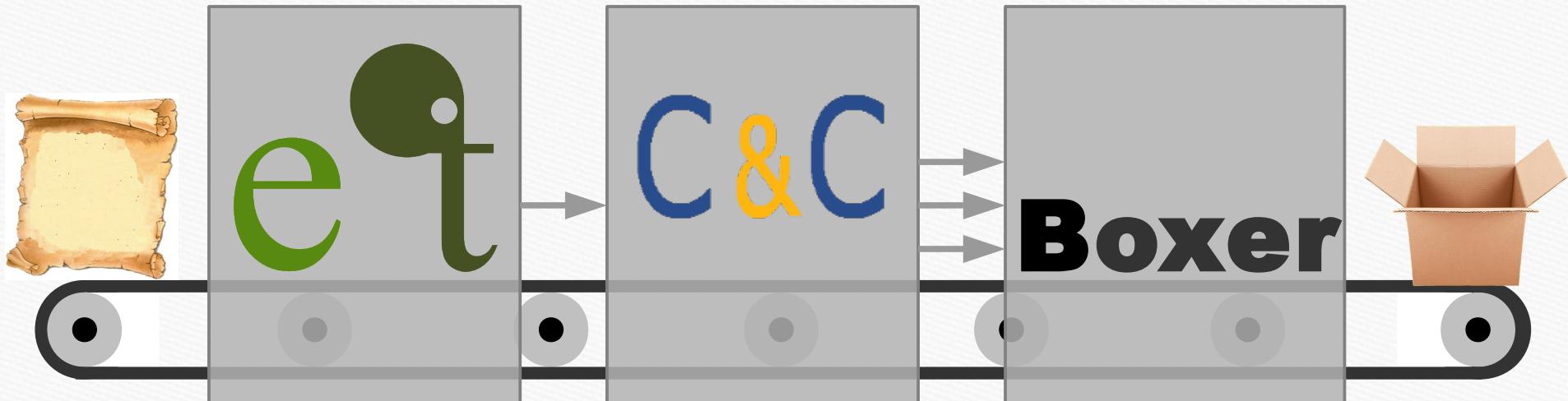
Purpose



Game

With A

# Purpose



Game

With A

# Purpose



11,441

testi

1,418,684

parole

108,748

annotazioni

# Game

With A Purpose

# Game

With A Purpose

# ? wardrobe

play what you mean

# ? wardrobe

play what you mean





# ? wardrobe

play what you mean

Twins Questions left until drawer is completed: 2

?

U.S.-led forces are hunting down remnants of Afghanistan's ousted Taliban regime who frequently carry out hit and run attacks on coalition and Afghan government **forces**, mainly in the country's eastern and southern regions.

- noun
- verb

Place your bet: low



high

answer

skip



# ? wardrobe

play what you mean

 Senses Questions left until drawer is completed: 1

?

gameimage

Russian **officials** say at least five more people have died from a wave of extremely cold weather gripping the nation, bringing the death toll to 43 in the past week.

- a worker who holds or is invested with an office
- someone who administers the rules of a game or sport

Place your bet: low



high

answer

skip



# ? wardrobe

play what you mean



Pointers Questions left until drawer is completed: 3



Venezuela's **president** is urging **President Bush** to use **his** second term in office to strengthen ties with Latin American nations.

- 1) Venezuela
- 2) president
- 3) President Bush

Place your bet: low



high

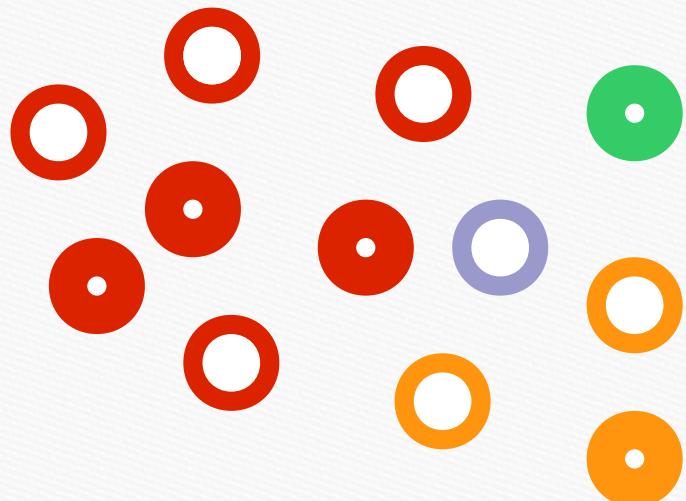
answer

skip

# ? wardrobe

play what you mean

points = agreement \* bet



1	●	7	○
2	●	8	○
3	●	9	○
4	○	10	○
5	○	11	●
6	○	12	●

# ? wardrobe

play what you mean

1		Aristotle		4186 points
2		Kilian		2399 points
3		Nynke		1473 points
4		Valerio		1058 points
5		Leo van Maanen		1004 points
6		Potato		618 points
7		Erik		471 points
8		Noortje		466 points

## Kilian



[Facebook page](#)

### Personal information

Name: Kilian

Completed drawers: 33

Senses: 10

Pointers: 13

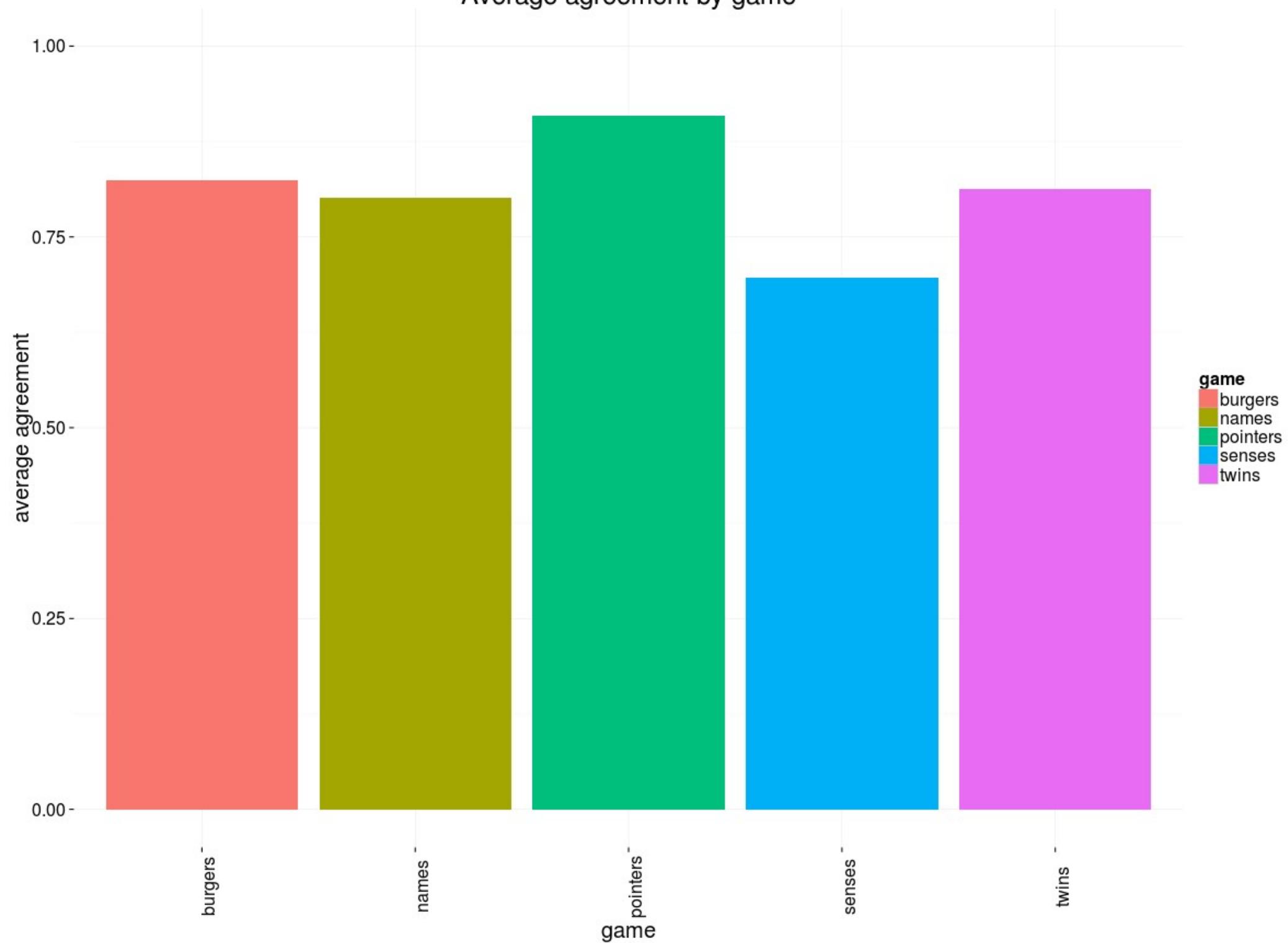
Twins: 10



9 giochi  
1.340 giocatori  
68.468 risposte

dataset pubblico  
(scaricalo!)

### Average agreement by game



it's DEMO time!



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<http://www.wordrobe.org>

<http://gmb.let.rug.nl>

V. Basile, J. Bos, K. Evang, N. Venhuizen

*Developing a large semantically annotated corpus.* LREC 2012

N. Venhuizen, V. Basile, K. Evang, J. Bos

*Gamification for Word Sense Labeling,* IWCS 2013