



Sentiment Analysis on Italian Tweets

Valerio Basile

31/5/2013

corpus

polarity
resource

sentiment
analysis

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resource

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analysis







?





?



twiito





Pietro Salvatori

@PietroSalvatori



“@HuffPostItalia: #Grillo arrivato nel backstage
huff.to/1afz4P8 #m5s”

9:34 PM - 24 May 2013

twi to

username



twi to

username



timestamp



username



timestamp

... coordinates



mention

hashtag



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@PietroSalvatori



“@HuffPostItalia: #Grillo arrivato nel backstage
huff.to/1afz4P8 #m5s”

9:34 PM - 24 May 2013

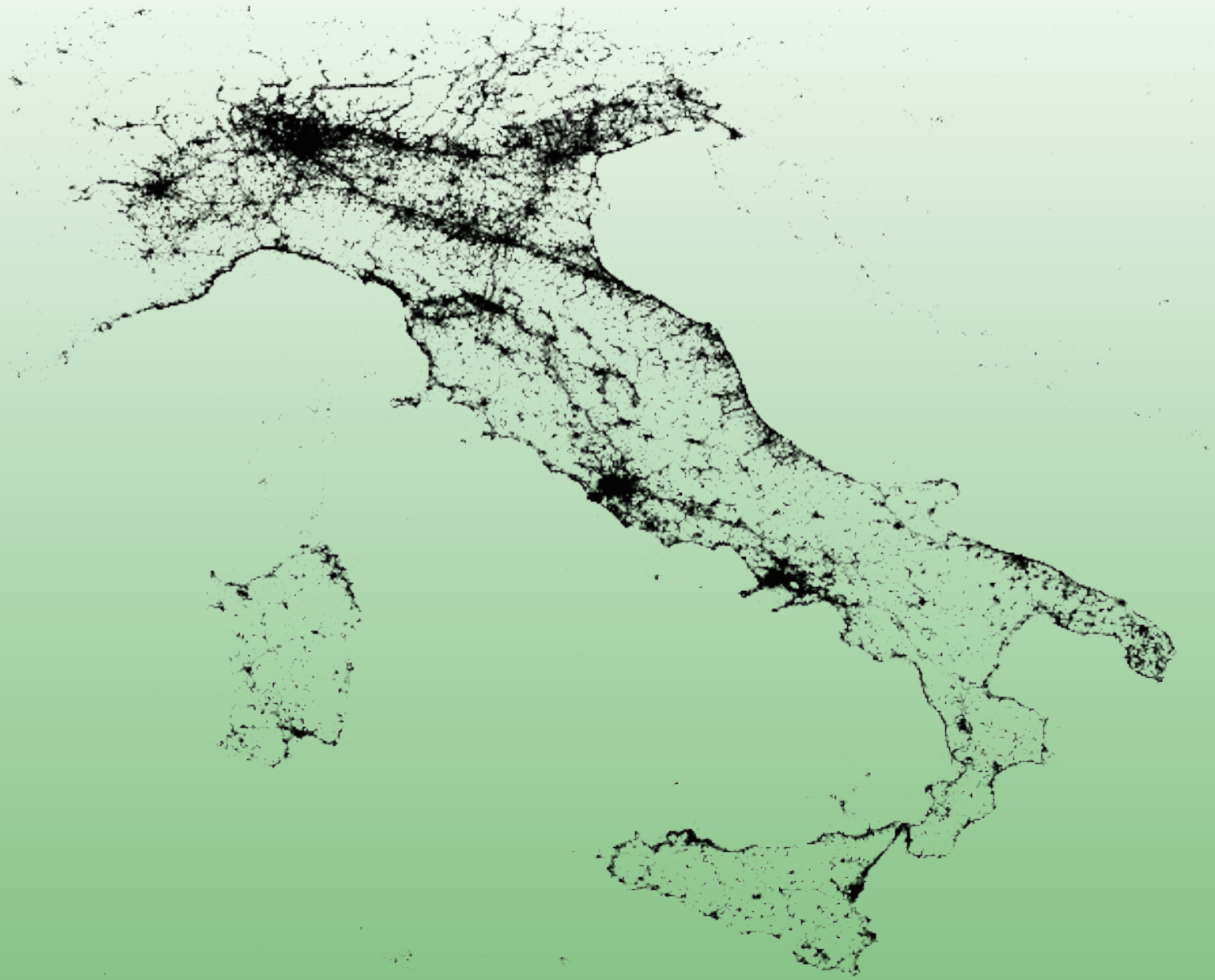
URL

verb

prep.

noun

twi to



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Amo tutto di te... però ti odio

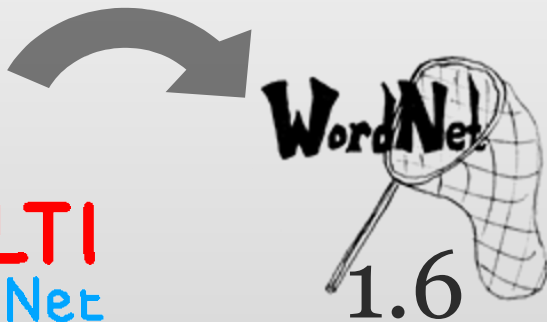
I love everything about you... but I hate you

Amo tutto di te... però ti odio

I love everything about you... but I hate you

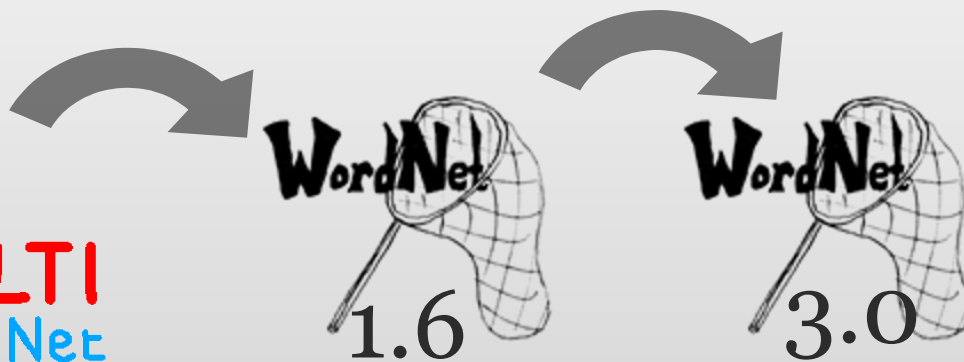


invidia (n) 00758335
invidia (n) 07549716



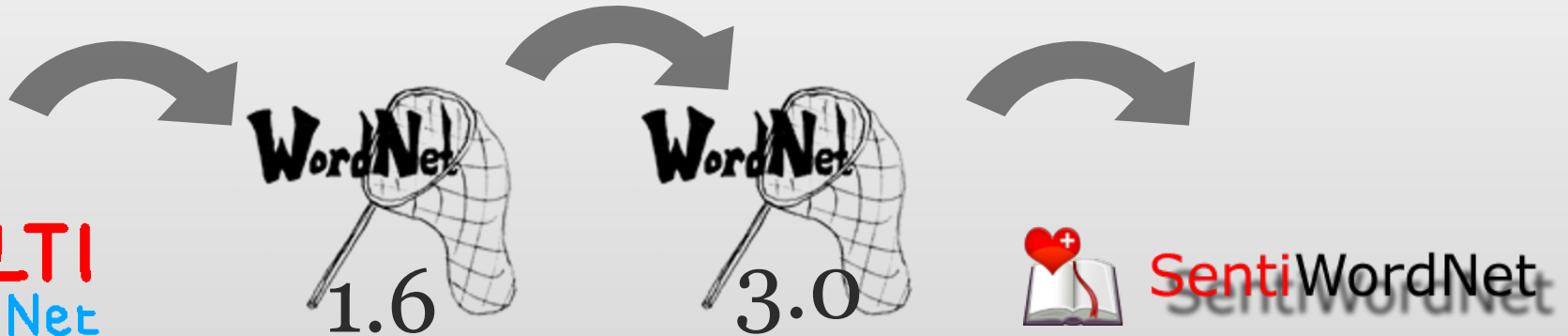
invidia (n) 00758335
invidia (n) 07549716

00758335 (n) envy, invidia (spite and
resentment at seeing the success of
another (personified as one of the
deadly sins))
07549716 (n) envy, enviousness (a
feeling of grudging admiration and
desire to have something that is
possessed by another)



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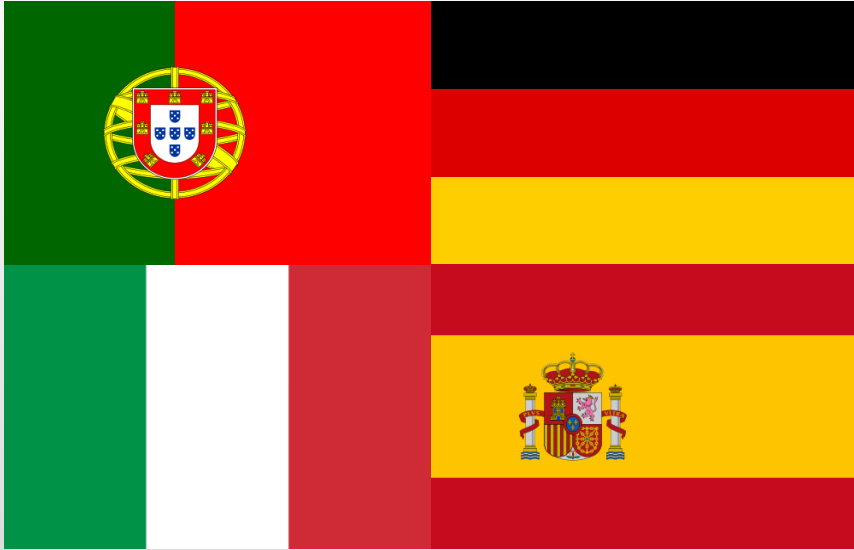
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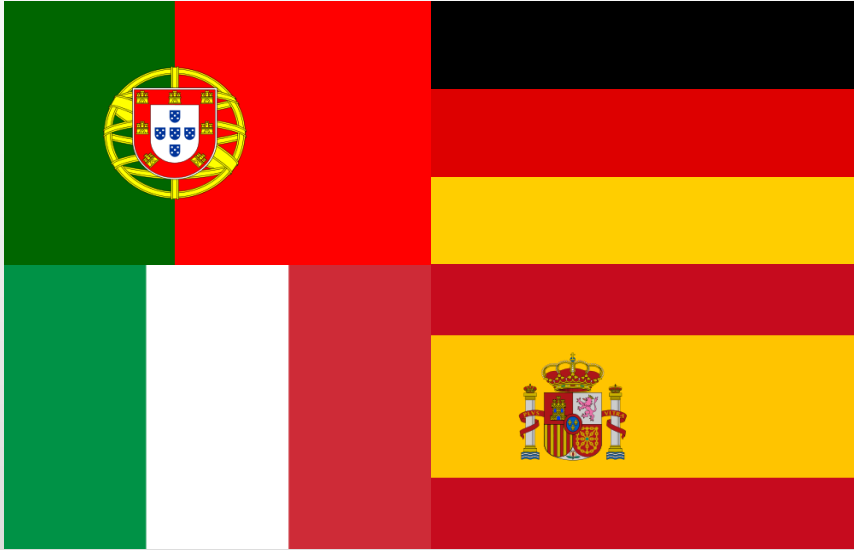


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n#00758335 0 0.5
n#07549716 0.625 0





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La noia della domenica non ha uguali
Nothing matches the Sunday boredom

ha

ha

ha

non ha

non ha uguali

La noia della domenica non ha uguali

noia

non ha

noia

non ha

noia

non ha

noia

noia

La **noia** della domenica **non** ha uguali

La **noia** della domenica **non** ha uguali



ha

ha

ha

non ha

non ha uguali

La **noia** della domenica non ha uguali

noia

non ha

noia

non ha

noia

non ha

noia

noia

Polypathy

ha

ha

ha

non ha

non ha uguali

La **noia** della domenica non ha uguali

noia

non ha

noia

non ha

noia

non ha

noia

noia





#Grillo





polypathy 👍

ambiguity 👎

irony 👎





Goto 0





twiitō

Cold numbers

best accuracy: 0.505 (a)

	positive	negative	neutral
best prec	0.440 (r)	0.195 (v)	0.664 (nar)
best rec	0.701 (nva)	0.532 (var)	0.669 (a)
best f-score	0.485 (nvar)	0.262 (vr)	0.647 (a)

with polypathy threshold

best accuracy: 0.554 (r)

	positive	negative	neutral
best prec	0.420 (r)	0.233 (v)	0.685 (nar)
best rec	0.714 (nvar)	0.457 (var)	0.785 (r)
best f-score	0.492 (nar)	0.296 (vr)	0.698 (r)

word	POS	polypathy
pauroso (<i>scary</i>)	adjective	1.060
colpo (<i>hit</i>)	noun	0.833
invidia (<i>envy</i>)	noun	0.795
dimenticare (<i>to forget</i>)	verb	0.707
materialista (<i>materialistic</i>)	noun	0.618
evitare (<i>to avoid</i>)	verb	0.530
vero (<i>true</i>)	adjective	0.375
educazione (<i>education</i>)	noun	0.310
combattere (<i>to fight</i>)	verb	0.265
onore (<i>honour</i>)	noun	0.233