

**"NORA: Practice Makes Purr-fect" - Check the sequel too.**

42,931 ratings | 13,999,360 views

Positive: **74%** Negative: **26%**

OpinionCloud (from 999 recent comments)

cat cute piano lol :-:) play cats lovely nora -D X-D playing haha sound adorable awesome plays 3 wow video she's keys fuck cool amazing life mozart go music stupid people shitting song funny likes kitty omg - nice keyboard talented videos im watch make youtube 1 ur smart great beautiful dogged animals made 2 time 0 yeah wtf note sweet :-)) views things thing pretty called suck watching animal :-)) soo jazz god random 5 awful makes mins killed subscribe chopsticks teach fat gato impressive beethoven pianist the hitting 13 world :-)) (heard write backing cutest stop aww hateful tv hell weird el practicable cat's food retarded bit damn channel reminds give check comment ass shes thoughtful million played face bravo enjoy interest aistocats de owner lmao lolz es put comments making wonderful train happen 6

Click on a word to see the respective comments.

**Text Comments (23,872)**

gennyErtU (58 minutes ago) Reply  
Awesome downloadmoviesfree(dot)tk

missyOvn (1 hour ago) Reply  
Nora Nora Nooooral :D

tongwaiho (2 hours ago) Reply  
she is so cute

ChibiSugar (2 hours ago) Reply  
1:07 - 1:09 Is sooo nice :o Talented cat :P

ililwayneweezyy (4 hours ago) Reply  
it aint playing only one tyhing amazing that is it sits down and plays the piano with its paw seriously its just hitting the same note all the time...

SquidVicious (5 hours ago) Reply  
haha you said pianist!

MobiusBandwidth (9 hours ago) Reply  
I love this cat. must be a reincarnated pianist.

batoo1994 (10 hours ago) Reply  
lol same

batoo1994 (10 hours ago) Reply  
1:13-1:15 sounded cool

Psicobeatle (11 hours ago) Reply  
Shes olav slow iazz?!

silenteyespy (16 hours ago) Reply  
Just saw you on tyra :D very cute and adorable :D

matbiker419 (16 hours ago) Reply  
i dunno, mozart is pretty hairy :)

delque10 (17 hours ago) Reply  
looooooooooooooool

smurfette2234 (18 hours ago) Reply  
Nora, the cat Mozart.

smurfette2234 (18 hours ago) Reply  
My cat, winkie listens to me play the piano. Then she tries to play by walking on the keys over and over again. she has not learned to play with her paws like Nora, but she tries.

Comment(s) marked as spam Show

ilhelptheNeeded (18 hours ago) Reply  
cactusandwich14 (18 hours ago) Reply  
aha skills Nora! u should call these song something really cool!

Darkcloud9071 (19 hours ago) Reply  
thought it was going to play chop sticks

matbiker419 (21 hours ago) Reply  
omg its like mozart =]

szkszyoliver (22 hours ago) Reply  
waddiwaski (1 day ago) Reply  
she really looed le she was enjoying the bach during the duet. super cute!

xfett (1 day ago) Reply  
WTF?!!

jummuu (1 day ago) Reply  
LOOOL

Comment(s) marked as spam Show

CannibalKlok (1 day ago) Reply  
i keep expecting the cat to bust out with Bach or something

bodiedog5 (1 day ago) Reply  
Liberache reincarnatel What?!! Paws...no fingers! Meowl

zby62 (1 day ago) Reply  
Her playing sounds a little bit like jazz. She's probably a jazz cat. :)

luuluu (22 hours ago) Reply  
she has got swing! :D

Pages: 1 2 3 ...

View all 23,872 comments

Would you like to comment?  
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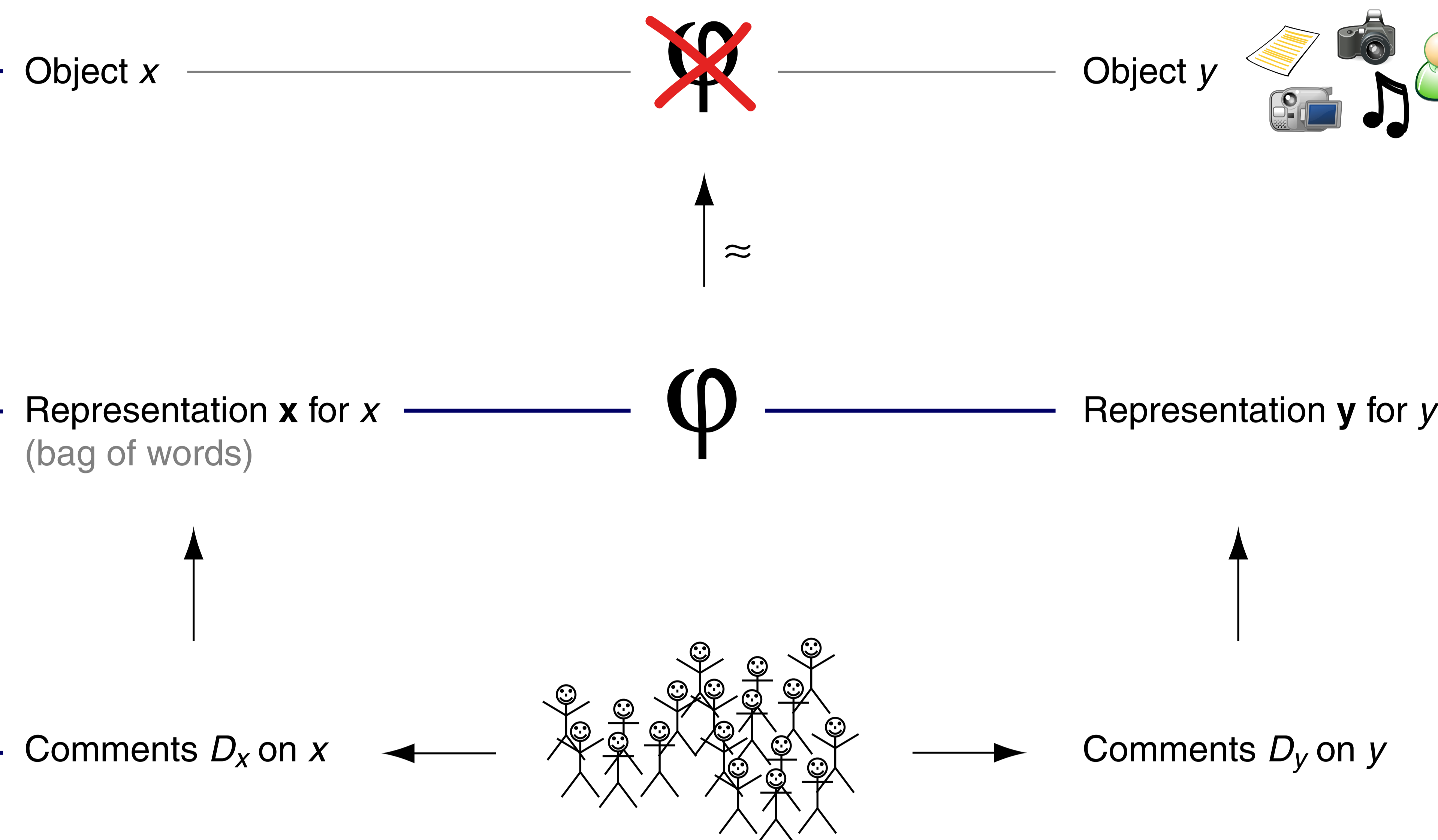
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## Cross-media Information Retrieval

- Comments can be found all over the Web.
- Comments can be found on all kinds of objects.
- Commenting is not perceived laborious; much unlike blogging, tagging, and „wikiing“.
- Commenters express their opinion.
- Do comments describe the commented object?
- Cross-media retrieval models are few and far between.
- Retrieval models are based on low-level features.
- Comments may be a shortcut to the pragmatic layer; there is no free lunch though.
- Comments on non-textual objects are often opinion-only.
- Is commenting media-dependent?



## Related Work: Comment Summarization

OpinionCloud (for YouTube)

1,762 ratings | 347,004 views

Positive: **62%** Negative: **38%**

OpinionCloud (from 999 recent comments)

donate clean problem poor bad dirty  
lively good great give ignorant war wasteful fault sad killed  
nice human helpful charity stupid cost diseased shitting hateful bomb  
hopeful wow save :-D lol :-:) true well  
lovely cool resourceful thoughtful careful  
awesome purify amazing backing  
educational important solution create pretty  
civil survival kind dig rich provide happy  
not\_fault powerful easy free accessible  
affordable thank funny :-)) supportive populous X-D haha  
natural fresh home deserve glad aid imaginative luck :-))  
inform knowledgeable conserve safe healthful stately  
wonderful effective beautiful

Click on a word to see the respective comments.

Text Comments (1,234)

- Comments on YouTube are often short opinion exclamations.
- Such comments offer an insight into the crowds opinion.
- Sentiment analysis can be employed to extract the opinions.
- The overall opinion is visualized as an opinion word cloud.
- The technology is operationalized in a Firefox add-on:  
<http://www.webis.de/research/projects/opinioncloud>

## Comment Corpora



- Technology news Web site.
- Community-driven moderation.
- Many comments per article.
- Comments are categorized:
  - Positive:** insightful, informative, interesting, funny
  - Negative:** offtopic, flamebait, troll, redundant

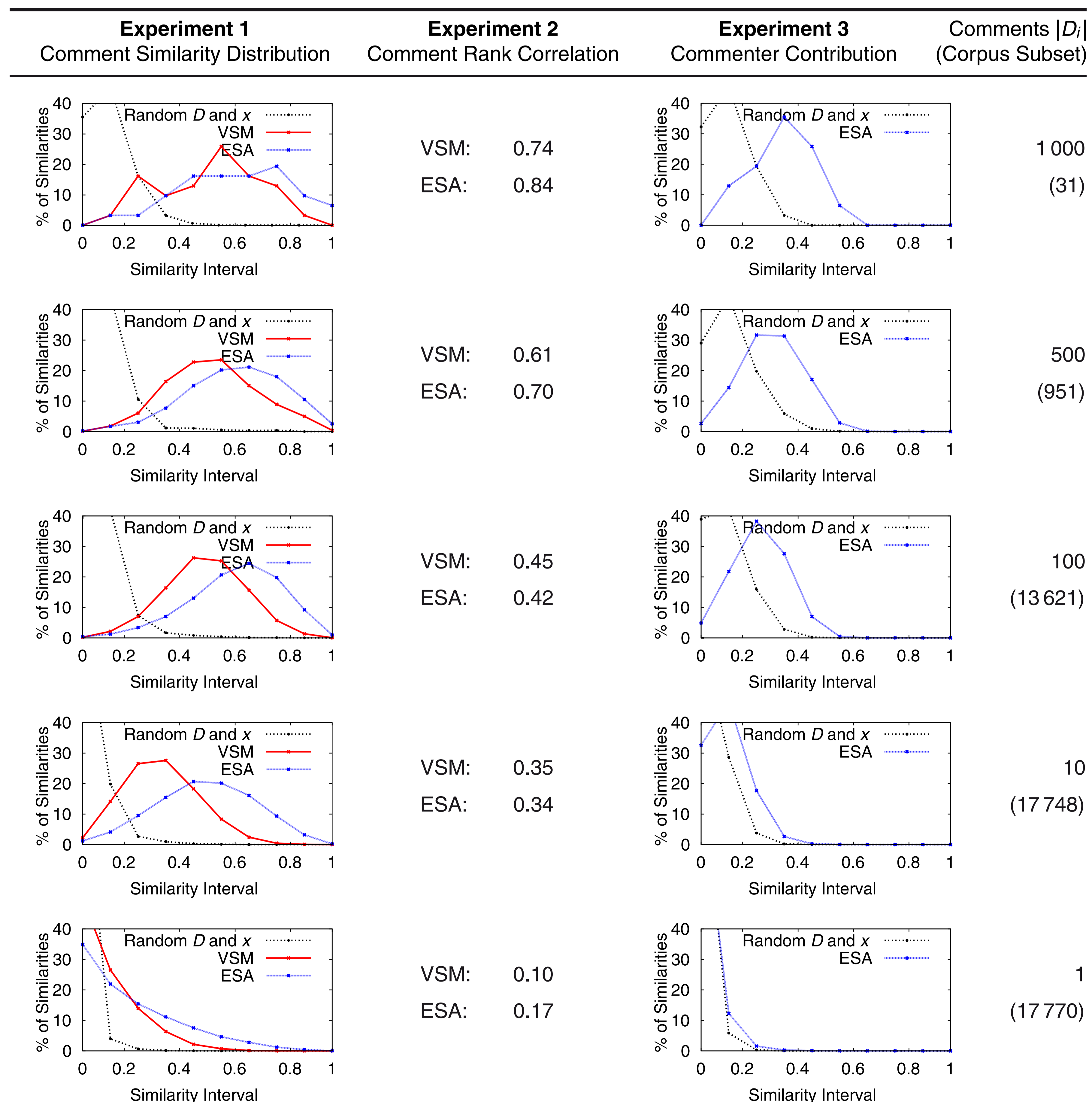
• Comments are rated from **-1 to 5**.  
The rating of a comment is computed from the categories assigned to it by different users.

• Our evaluation corpus:  
17,948 articles, and  
3.8 million comments of which  
380,000 are categorized / rated.

## Comments on all media:



## Experiments



## Experiment Descriptions

**Experiment 1:** To determine the descriptiveness of comments, each document  $x$  is compared with the combined text  $d$  of its comments  $D$ . As a baseline, each  $x$  is compared once with the comments of another randomly selected document. The obtained similarity values are depicted in Column 1 as similarity distributions, i.e., the ratio of all similarities per similarity interval of 0.1 range.

**Experiment 2:** To determine if the combined text  $d$  from  $D$  can replace  $x$  in a ranking task, the remaining corpus documents are ranked twice: (i) wrt. their similarity to  $x$ , and (ii) wrt. their similarity to  $d$ . The top 100 ranks of the two rankings are compared using the rank correlation coefficient Spearman's  $\rho$ , which measures their (dis-)agreement as a value from [-1, 1]. The experiment has been repeated with randomly selected documents  $x$  until the averaged correlation value converged (cf. Column 2).

**Experiment 3:** To determine whether or not the observed similarities between  $d$  and  $x$  depend only on text which has been copied from  $x$  into one of  $D$ 's comments, we (i) remove all terms from  $d$  which also occur in  $x$  and (ii) exploit the fact that ESA, unlike the VSM, has the capability to measure more than just the overlap similarity between  $d$  and  $x$ . Column 3 shows the obtained similarity distributions.