

# Overview of the International Sexual Predator Identification Competition at PAN-2012



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# Motivations



- Instant Messaging software: facilitate **new connections** between persons or **reinforce existing** ones but...
- allow for **misbehaviours** or **cybercriminal** acts!
- aligned with my Ph.D. work ;)

# Motivations

The image is a collage of three news articles from different websites:

- The Verge**: A headline reads "Facebook analyzes relationships and chats to flag up sexual predators". Below it, another article discusses "Facebook Monitors Your Chats for Criminal Activity [REPORT]".
- Mashable Social Media**: A headline reads "Social networks scan for sexual predators, with uneven results".
- Reuters**: A headline reads "(Reuters) - On March 9 of this year, a piece of Facebook software spotted something suspicious."

The collage highlights concerns about Facebook's monitoring of user conversations and its impact on privacy and safety.

# International Sexual Predator Identification Competition

- Exploratory (sub)task in PAN at CLEF 2012
  - Challenging (reusable) **collection**
  - Challenging **goals**
  - **Unique place** for researchers to discuss this task

# “sexual predator” ?!

- “*a person or group that ruthlessly exploits others*”, New Oxford American Dictionary
- “*is used pejoratively to describe a person seen as obtaining or trying to obtain sexual contact with another person in a metaphorically ‘predatory’ manner*”, Wikipedia.

# “sexual predator” ?!

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# “sexual predator” ?!

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**management**  
**mobile**  
**science**  
**security**  
**storage**

**Competition To Identify Sexual Predators In Chat Logs**  
Posted by [samzenpus](#) on Tuesday April 03, @02:53PM  
from the i-see-what-you-wrote-there dept.

An anonymous reader writes  
"Researchers from the University of Lugano, Switzerland, and other universities from the U.S. and Europe organize a competition to automatically identify sexual predators in chat logs. The task is described as: 'The goal of this sub-task is to identify classes of authors, namely online predators. You will be given chat logs involving two (or more) people and have to determine who is the one trying to convince the other participant(s) to provide some sexual favor. You will also need to identify the particular conversation where the person exploits his bad behavior.' Their data set covers hundreds of chat logs with dozens of true positives (i.e., chats where one is trying to hit on another)."

100 of 273 comments loaded  crime bigbrother communications  
  

You may like to read:  
[The Politics of the F.D.A.](#) [Bill "The Science Guy" Nye Says Creationism Is Not Appropriate For Children](#) [Instagram Debuts On Android](#)  
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# “sexual predator” ?!

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Competition To Identify Sexual Predators In Chat Logs  
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"Researchers from the University of Lugano, Switzerland, and U.S. and Europe organize a competition to automatically identify online predators. The task is described as: 'The goal of this sub-task is to automatically identify online predators. You will be given chat logs involving sexual predators. You will have to determine who is the one trying to convince the other person to meet them for some sexual favor. You will also need to identify the particular person who exploits his bad behavior.' Their data set covers hundreds of true positives (i.e., chats where one is trying to hit on another)."

100 of 273 comments loaded   

You may like to read:  
[The Politics of the F.D.A.](#)  
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Dateline:To Catch A Predator Live

SDot10  22 videos



To Catch A Predator - Florida Part 3 Dateline NBC

beshnola  25 videos



Dateline : To Catch a Predator. Southern California (part 1)

DatelineArchives  49 videos



Article Talk Read Edit View history Search

## To Catch a Predator

From Wikipedia, the free encyclopedia

**To Catch a Predator** is an American reality television series that featured hidden camera investigations by the television newsmagazine program *Dateline NBC*. It was devoted to impersonating underage people (generally ages 13-15)<sup>[1]</sup> and detaining adults who contacted them over the Internet for sexual liaisons. People were lured to meet with a decoy under the pretense of sexual contact and then confronted. Show host Chris Hansen clarified in an interview with NPR News that these subjects should be labeled as potential sexual predators, and not pedophiles. "Pedophiles have a very specific definition, people who are interested in prepubescent sex," he stated.<sup>[2]</sup>

The series premiered in November 2004, and featured 12 investigations in total held across the United States. The investigations were conducted as undercover sting operations with the help of on-line watchdog group Perverted-Justice. Since the third installment, law enforcement and other officials were also involved, leading to the arrests of most individuals caught. No new episodes have aired since December 2007.

NBC affiliates WTMJ in Milwaukee, KSHB in Kansas City and WBRE have also done local versions of *To Catch a Predator*. Various spin-offs have aired in the same format, including *To Catch a Con Man*, *To Catch an ID Thief*, *To Catch a Car Thief* and *To Catch an i-Jacker*, which featured iPod thieves. *To Catch a Predator* is also aired on FX and Crime & Investigation Network in the United Kingdom, the Crime & Investigation Network in Australia and New Zealand and FOX Crime in Portugal.

**Contents** [hide]

- 1 Method
- 2 Investigations
  - 2.1 Bethpage, Long Island (Outside New York City)
  - 2.2 Herndon, Fairfax County, Virginia (Suburban Washington, D.C.)
  - 2.3 Mira Loma, Riverside County, California (Outside Los Angeles)

To Catch a Predator

Format	Newsmagazine
Presented by	Chris Hansen
Country of origin	United States
Running time	60 minutes
Original channel	MSNBC
Original run	November 2004 – December 2007
External links	Wikipedia entry

Thursday, September 20, 12

6

# Previous works

- **Kontostathis** et. al [9, 12]
  - PJ website
- **Pendar** [16]
  - I) Predator/Other
    - (Ia) Predator/Victim (victim is underage);
    - (Ib) Predator/Pseudo-Victim (volunteer posing as child);
    - (Ic) Predator/Pseudo-Victim (law enforcement officer posing as child)
  - II) Adult/Adult (consensual relationship)
- **Other domains**

# Previous works

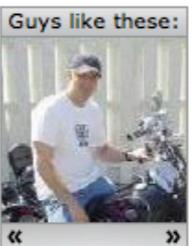
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  - ~~(Ic) Predator/Pseudo-Victim (law enforcement officer posing as child)~~
  - II) Adult/Adult (consensual relationship) *False Positive*
- **Other domains**

# Collection Composition

Archives Forums FAQ PJFI Opinions PJFI.org How to Help 501(c)3 Donations Info For Police Contact Us

# PERVERTED JUSTICE™

Guys like these:



« »

Random Convictions: Assfider dsalyer... QX4Boi19 Develo... yp\_anth... Daveeat... red387p... Trueswe... quin\_says shaka\_k... [full archives]

Top 10 Most Slimy: tito\_92... fleet\_c... thenewp... vamale... DavieWa... jackman... kalowoo... smilema... shinelf... swgamal... [full rankings]

Wednesday, March 28th, 2012

**Chatlog Conviction #549**

• [fjk84412 - Ogden, Utah](#)  
Felipe Keidaisch received 57 months for his chat  
[Read Report] Links to Chat Log: [With Commentary] [No Commentary]

Wednesday, October 19th, 2011

**Chatlog Conviction #548**

• [virgin18yearold - Wales, Michigan](#)  
Joseph Peraino isn't really 18, but he is definitely a predator  
[Read Report] Links to Chat Log: [With Commentary] [No Commentary]

Monday, August 22nd, 2011

**Chatlog Conviction #547**

• [okape40 - Ypsilanti, Michigan](#)  
Joshua Blake Hoe will no longer be running summer camps  
[Read Report] Links to Chat Log: [With Commentary] [No Commentary]

**Looking for applicants to our training program**

We have undertaken a massive effort to rework how we bring on new volunteers to learn how to do the chat-logs that you see on the website. From learning how to collect evidence in a professional and credible manner to learning how to chat with these individuals to secure an arrest, our online e-learning program will help out.

Anyone is eligible to apply given that they're over 21 years of age with a clean criminal background. Full details can be found at the following link: [Application Information](#)

We're very proud of the work that has been done to totally overhaul and simplify how we bring on volunteers. Our new training academy is a serious step-up in processing volunteers to do chat-logs that bring in results. Please have a read of the page today and see if volunteering with us to try to help deal with internet predators online is something you're interested in.

**New Canadian resource profiles pedophiles**

Over the years, Canadians have been asking how to help out, or for links to resources regarding pedophiles and other sexual offenders against children. Recently a pretty good resource was launched in Canada as detailed in this Ottawa Sun article: [Convicted Pedophile Outing Website Goes Live](#).

The website, [StopPedophiles.ca](#), is set up with resources for Canadian parents and links to identities of convicted pedophiles set up by province, and each listing has articles to media stories regarding the individuals abuse case.

Canadians should check out the site and support greater efforts to drag the culprits of such abuse out into the sunlight.

Conviction Counter

Number of predators convicted due to Perverted-Justice.com since June 2004:

**550**

**Chatlog Convictions: 549**  
**Research Convictions: 1**

Real Stories Project

For the next six months, we're documenting actual cases of internet abductions and molestations. One case a day for at least six months. Beware, these stories can be disturbing.

**05/26/10: Man, 27, rapes girl, 12**  
A 27 year old Delaware man was arrested for raping a 12 year old girl he met online.

**05/25/10: Man, 22, rapes girl, 13**  
A 22 year old North Carolina registered sex offender was arrested for raping a 13 year old girl he met through Facebook.

**05/24/10: Man, 26, assaults teen girls**  
A 26 year old Texas man was arrested for sexually assaulting a 13 year old girl. During the investigation police learned that the man had sexually assaulted at least five other girls. He met his victims on Facebook and MySpace.

# Collection Composition

	<b>Positive</b>	<b>Negative</b>
<b>TRUE</b>	Perverted Justice	Regular conversations
<b>FALSE</b>	Sexual Related Conversations	

# Collection Composition

	<b>Positive</b>	<b>Negative</b>
<b>TRUE</b>	Perverted Justice 	Regular conversations 
<b>FALSE</b>	Sexual Related Conversations 	

# Collection Composition

## Krjin (<http://krijnhoetmer.nl/irc-logs>)

#whatwg #html-wg #html5 #css #fx #webapps  
#microformats #accessibility #developers

## Irclog ([www.irclog.org](http://www.irclog.org))

#aix #apache #azureus #blender #c #c++  
#cisco #csharp #css #debian #fedora #flood  
#freebsd #gentoo #gentoo-dev #gtk #hardware  
#html #iptables #irix #java #javascript #linux-bg  
#macosx #mysql #netbsd #openbsd  
#opensolaris #oracle #php #python #qt  
#reactos #samba #solaris #suse #tomcat  
#ubuntu #vim #windows #wireless

## Omegle (<http://omegle.inportb.com>)

“abusive language and general silliness online” and sometimes users “engage in cybersex”

## PJ ([www.perverted-justice.com](http://www.perverted-justice.com))

**Conversation:**  
messages exchange  
separated by a  
break of 25+ minutes  
and with a  
duration  $\leq 150$  exchanges

**Training**  
~ 67k conv.  
~ 97k users

**Testing**  
~ 155k conv.  
~ 218k users.

# Collection Statistics

	PJ perverted-justice.com	krjin krijnhoetmer.nl/irc-logs	irclog irclog.org	omegle omegle.inportb.com
#conversations	11350	50510	28501	267261
#conv. length $\leq$ 150 (% all )	9076 (80%)	48569 (96%)	21896 (77%)	265747 (99%)

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Training set				
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” and exactly 2 user (% training)	984 (36%)	2420 (17%)	1146 (17%)	41067 (95%)
unique (perverted) users	291 (142)	2660	10613	84131

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unique (perverted) users	291 (142)	2660	10613	84131
Testing set				
#conv. length $\leq$ 150	5321	33998	15327	100482
” and exactly 2 user (% testing)	1887 (35%)	5648 (17%)	2673 (17%)	95648 (95%)
unique (perverted) users	440 (254)	4358	17788	196130

# Task goal

- given a collection containing chat logs involving two (or more) persons:
  - **identify** the **predators** among all users in the different conversations - problem 1
  - **identify** the **part** (the lines) of the conversations which are the **most distinctive** of the predator behavior - problem 2



# Participants

16 submissions  
12 notebooks

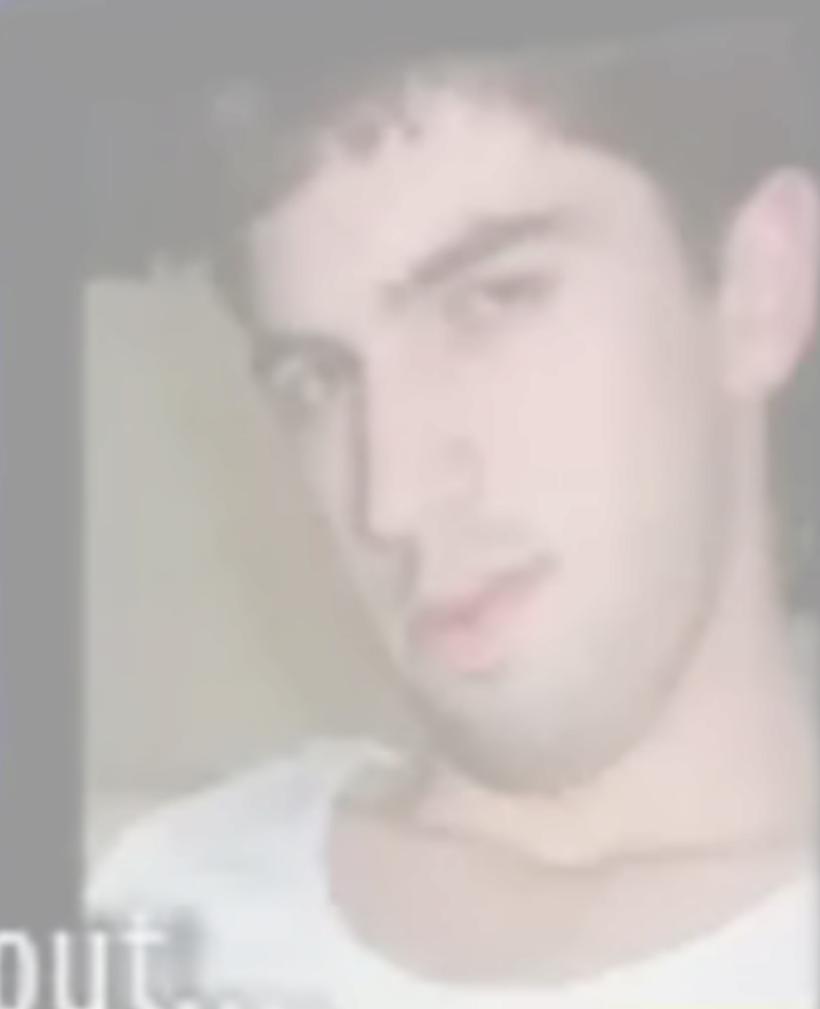
# Problem 1

**“identify the predators**  
among all users in the  
different conversations”

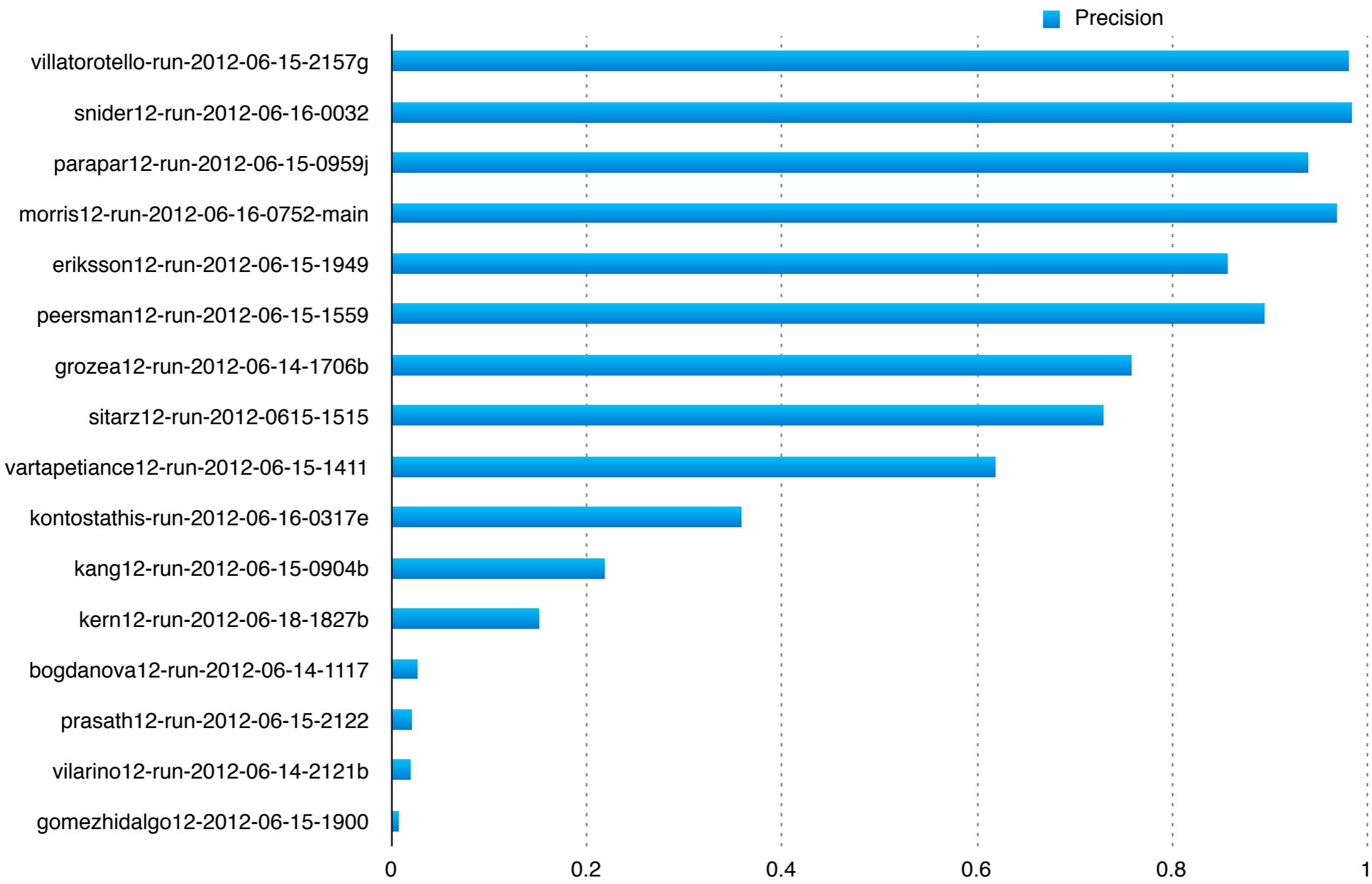
“Were you serious about...  
the hard-core -----ing?”

icetruckkiller103

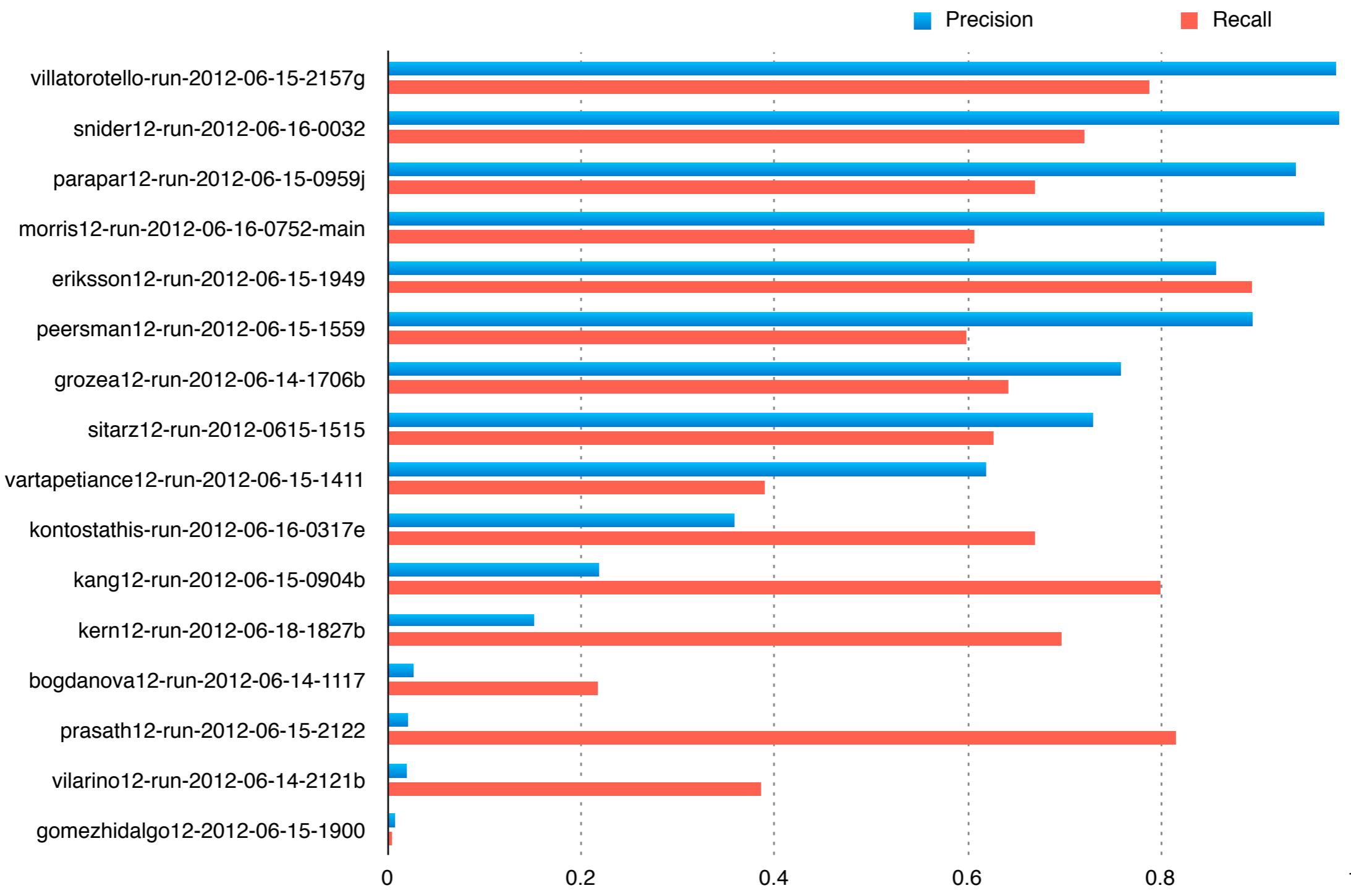
“We'll see what happens.”



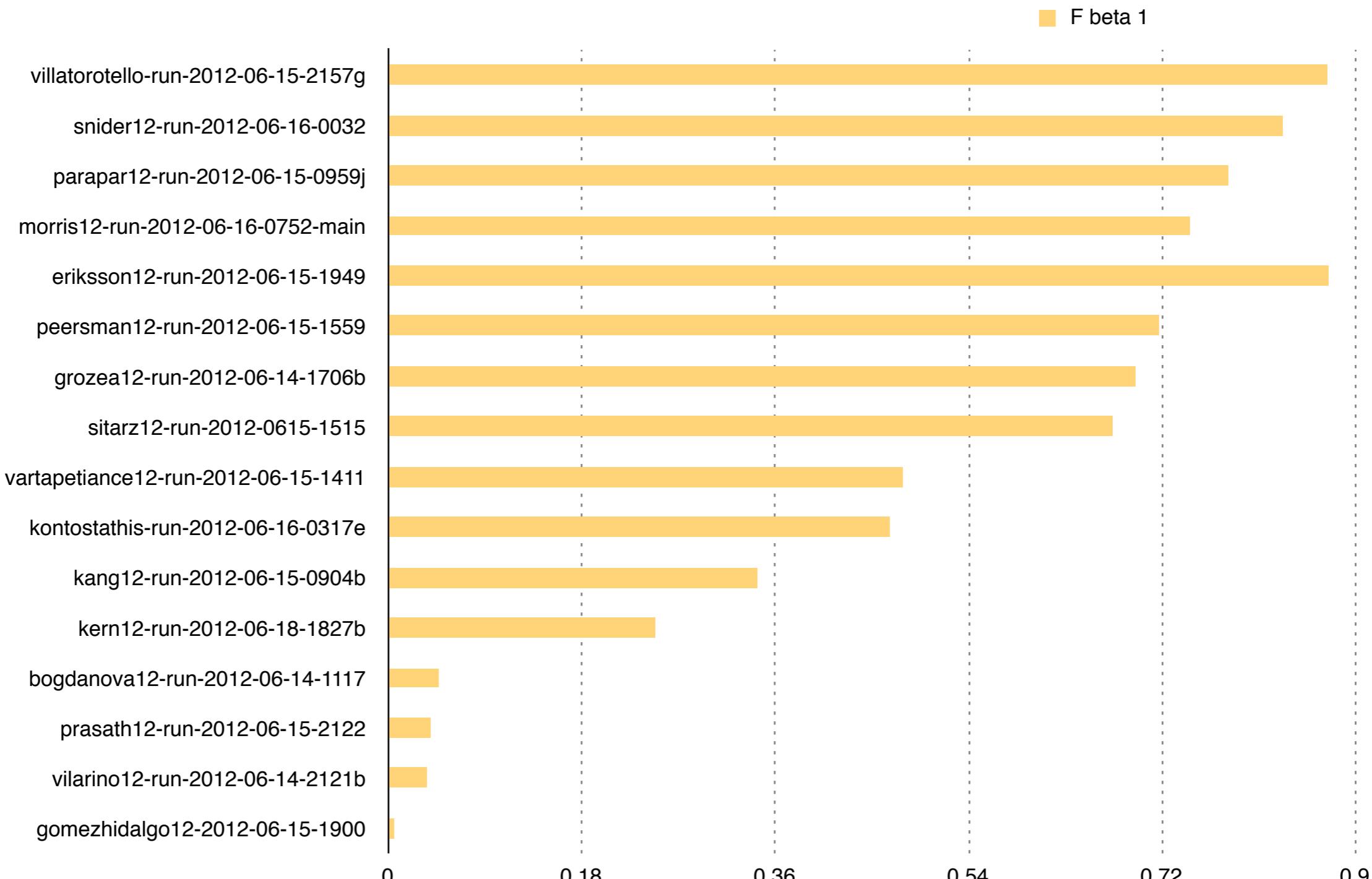
# Results



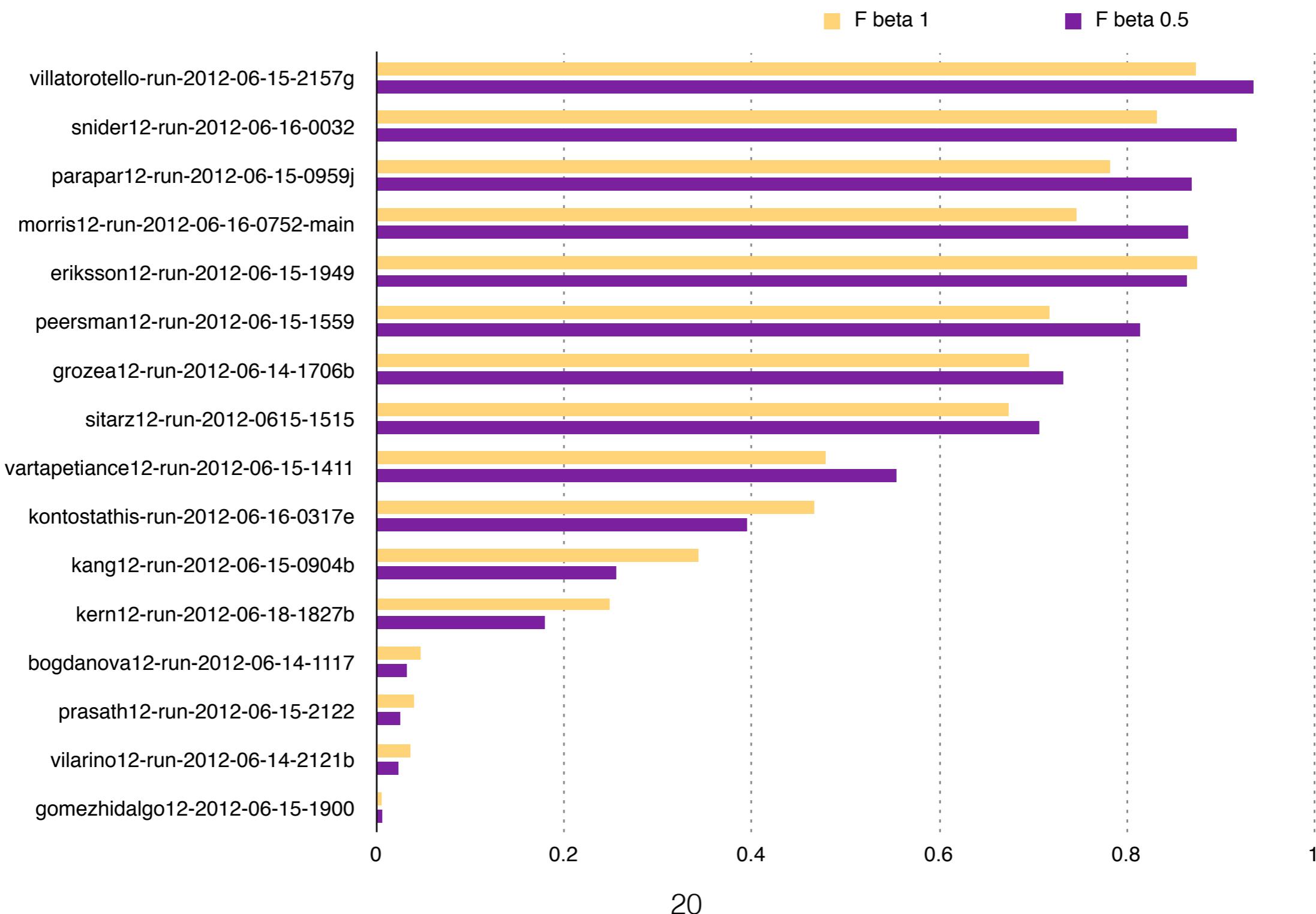
# Results



# Results



# Results



# Approaches

- pre-filtering
  - presence of 1 participants only
  - less than 6 interventions per user
  - 3 long sequences of unrecognised characters
- features
  - lexical
  - behavioral
  - character 5-gram
- classifiers
  - Neural Network classifier [19]
  - Maximum-Entropy [4,8]
  - SVMs [13,14,15,19]
  - decision trees[10]
  - k-NN [7,17]
  - random forest [17]
  - Naïve Bayes [6,1]
  - line based / author based

# Approaches

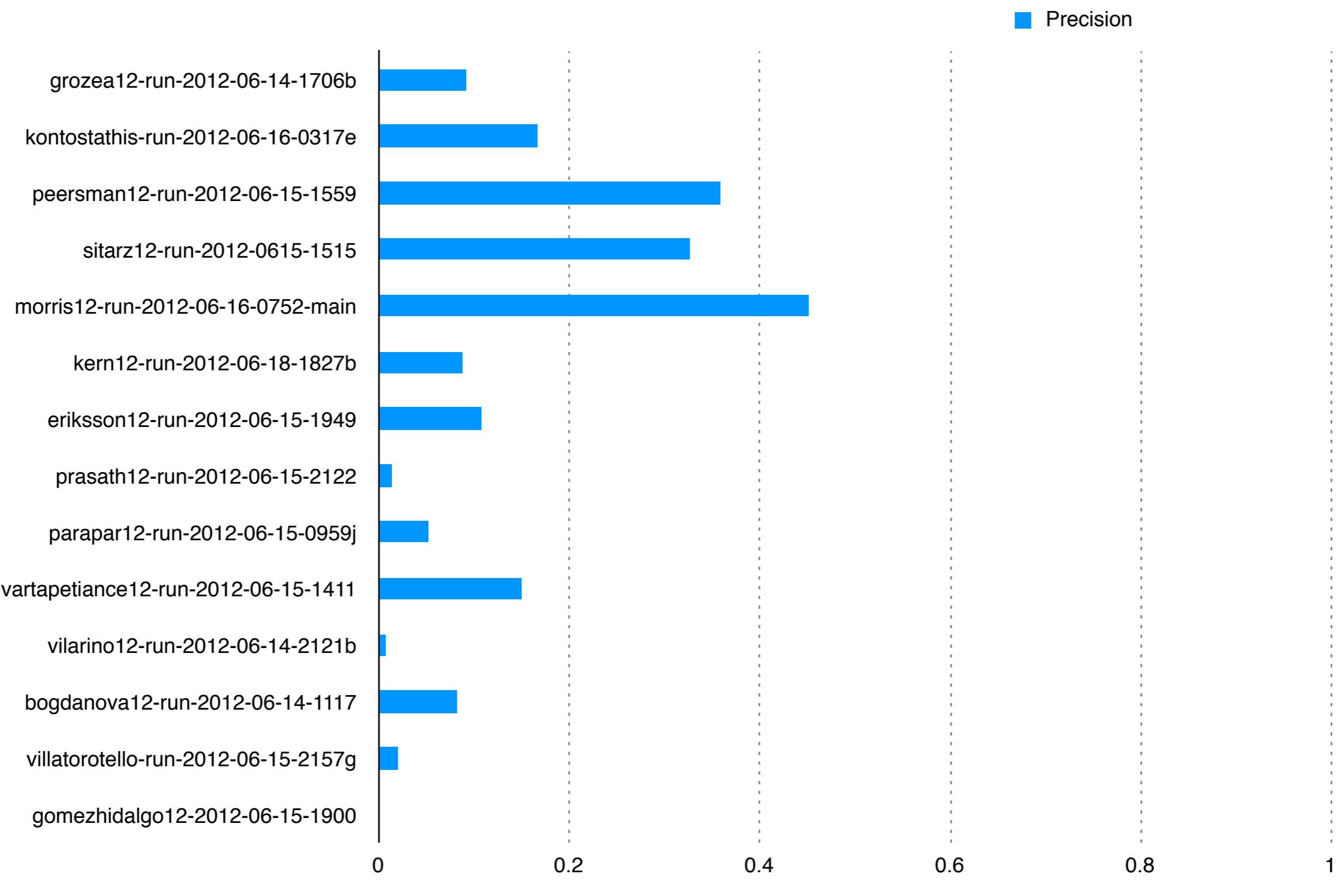
- **pre-filtering**
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- **classifiers**
  - **Neural Network classifier [19]**
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  - k-NN [7,17]
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  - Naïve Bayes [6,1]
  - line based / **author** based

# Problem 2

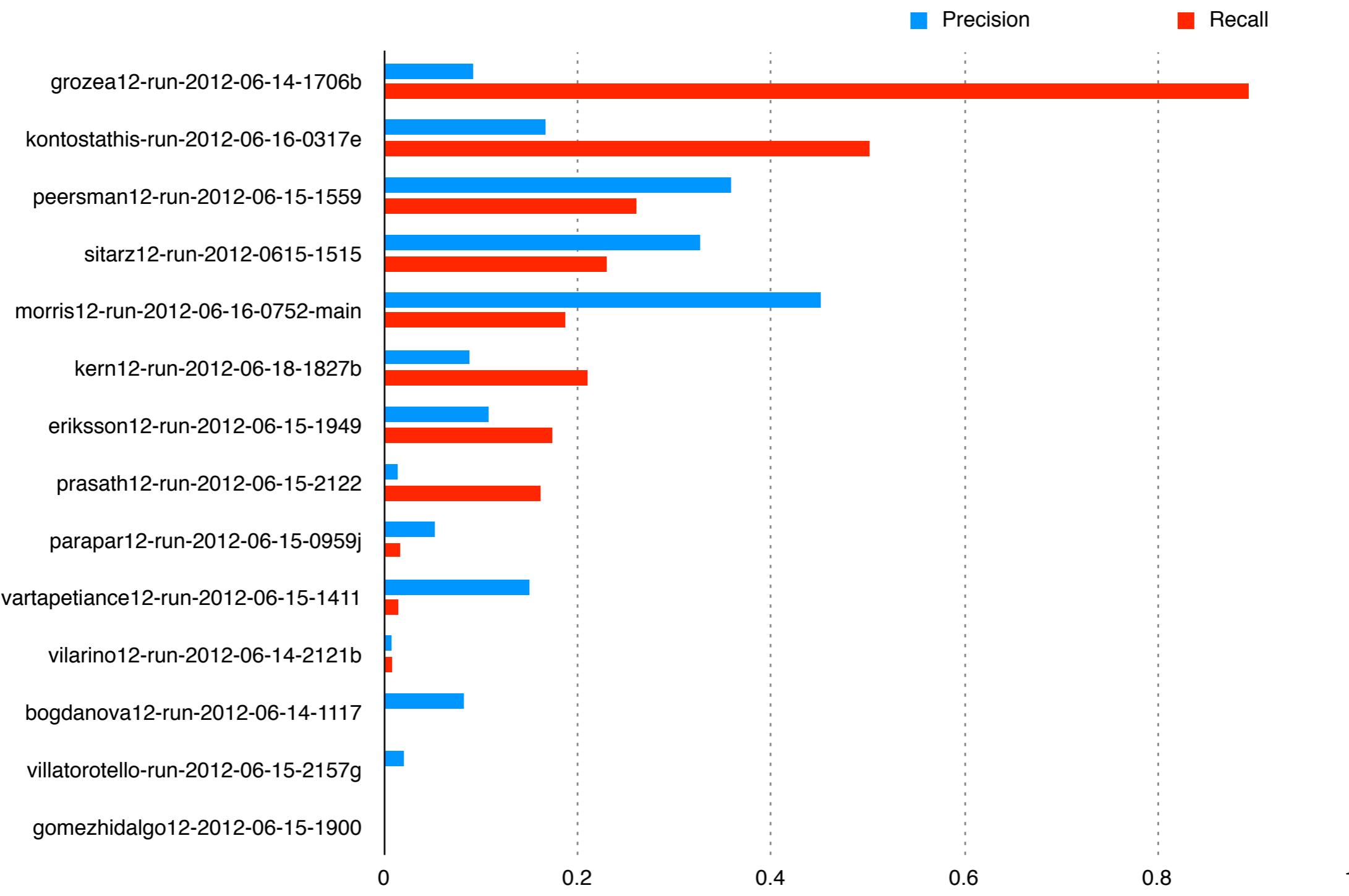
**“identify the part (the lines) of the conversations which are the most distinctive of the predator behaviour”**

7b41ea8eafa7d0f6a12 LOL  
7b41ea8eafa7d0f6a12 now i cant run at all LOL  
fde60c3be70ade5bec8 ill massage your ankle | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 masterbating | Line suspicious?  
7b41ea8eafa7d0f6a12 lol be gentle  
7b41ea8eafa7d0f6a12 i gotta owie  
fde60c3be70ade5bec8 ill be verry gentle | Line suspicious?  
fde60c3be70ade5bec8 ill only use 2 parts of my body | Line suspicious?  
7b41ea8eafa7d0f6a12 ?  
fde60c3be70ade5bec8 my toungh and cock | Line suspicious?  
7b41ea8eafa7d0f6a12 on my ankle?  
fde60c3be70ade5bec8 no your pussy | Line suspicious?  
fde60c3be70ade5bec8 ill massage your ankle | Line suspicious?  
7b41ea8eafa7d0f6a12 so wat ru doin home?  
fde60c3be70ade5bec8 i know been busy i promise  
7b41ea8eafa7d0f6a12 u do that alot huh  
fde60c3be70ade5bec8 totaly | Line suspicious?   
fde60c3be70ade5bec8 iam thinking about you when  
fde60c3be70ade5bec8 you going to see your fist  
7b41ea8eafa7d0f6a12 naw i was lookin up my sign  
fde60c3be70ade5bec8 wish you were here , willin  
fde60c3be70ade5bec8 Ill do urs, wat is ur bday  
7b41ea8eafa7d0f6a12 mine july 7  
fde60c3be70ade5bec8 i garentee wen you see it youll like it  
7b41ea8eafa7d0f6a12 wat sign is that  
fde60c3be70ade5bec8 ill slide it in your wet tight pussy | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 Ok one sec ill get urs | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 it does but the pleasure will over take the pain | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 Sagittarians have a positive outlook on life, are full of enterprise, energy, versatility, adventurousness and eagerness. They are physically familiar. They enjoy travelling and exploration, the more so because their minds are constantly open to new dimensions of life. They are optimistic and continue to be so even when their hopes are dashed.  
fde60c3be70ade5bec8 ill be gentle | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 thats a good sign  
fde60c3be70ade5bec8 no | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 no  
fde60c3be70ade5bec8 still want me? | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 i dunno u was suppose 2 get acam so i can c u  
fde60c3be70ade5bec8 dont think you want me to get you pregnent.....yet | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 then you see all of me | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 you want to loose your virginty? | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 ur face is fine lol  
fde60c3be70ade5bec8 your going to see everything | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 you going to see your fist cock | Line suspicious?  Yes  No  
fde60c3be70ade5bec8 ever think about sucking one | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 k  
fde60c3be70ade5bec8 how | Line suspicious?  Yes  No  
7b41ea8eafa7d0f6a12 im kinda scared  
fde60c3be70ade5bec8 want to see it soft or hard? | Line suspicious?  Yes  No

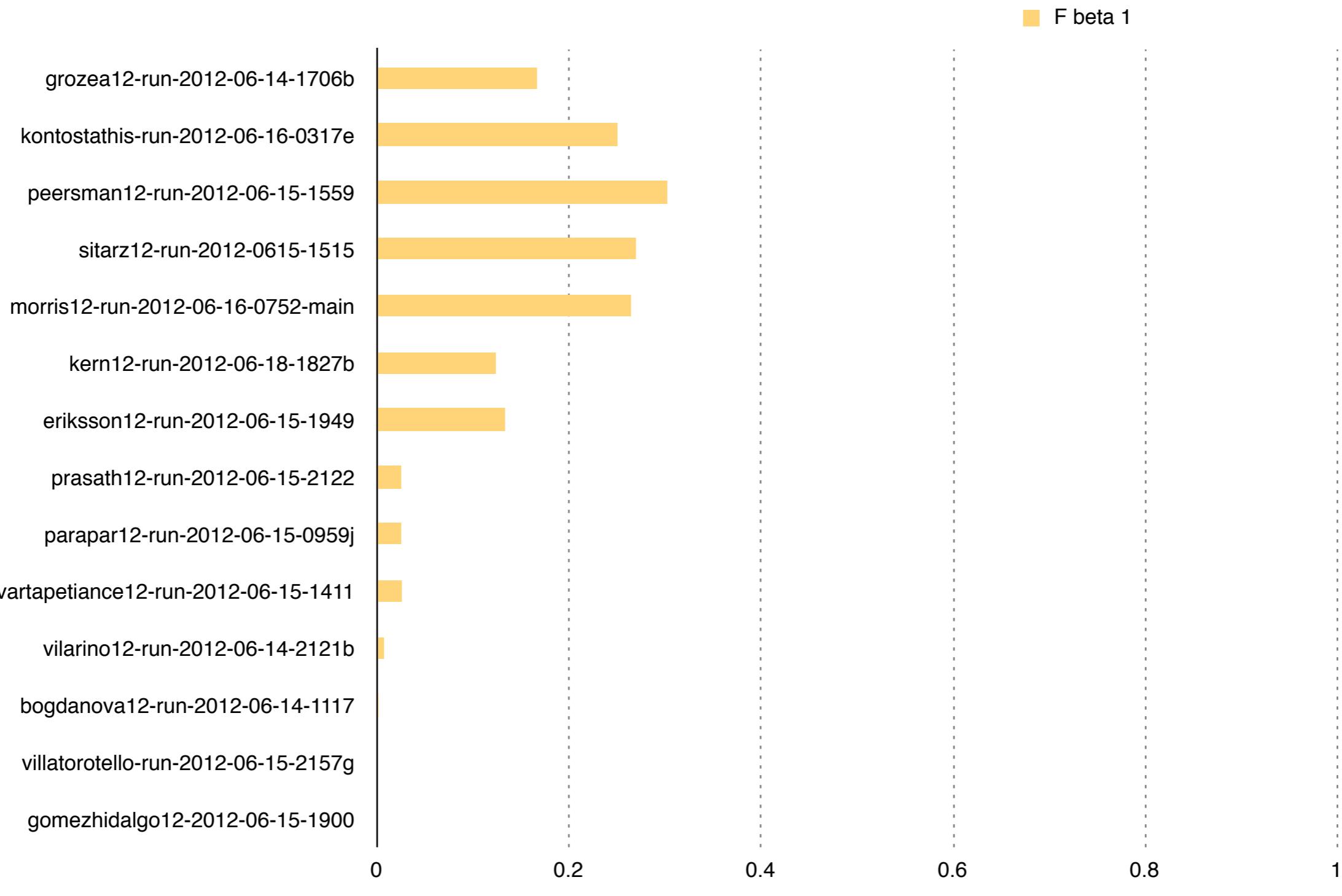
# Results



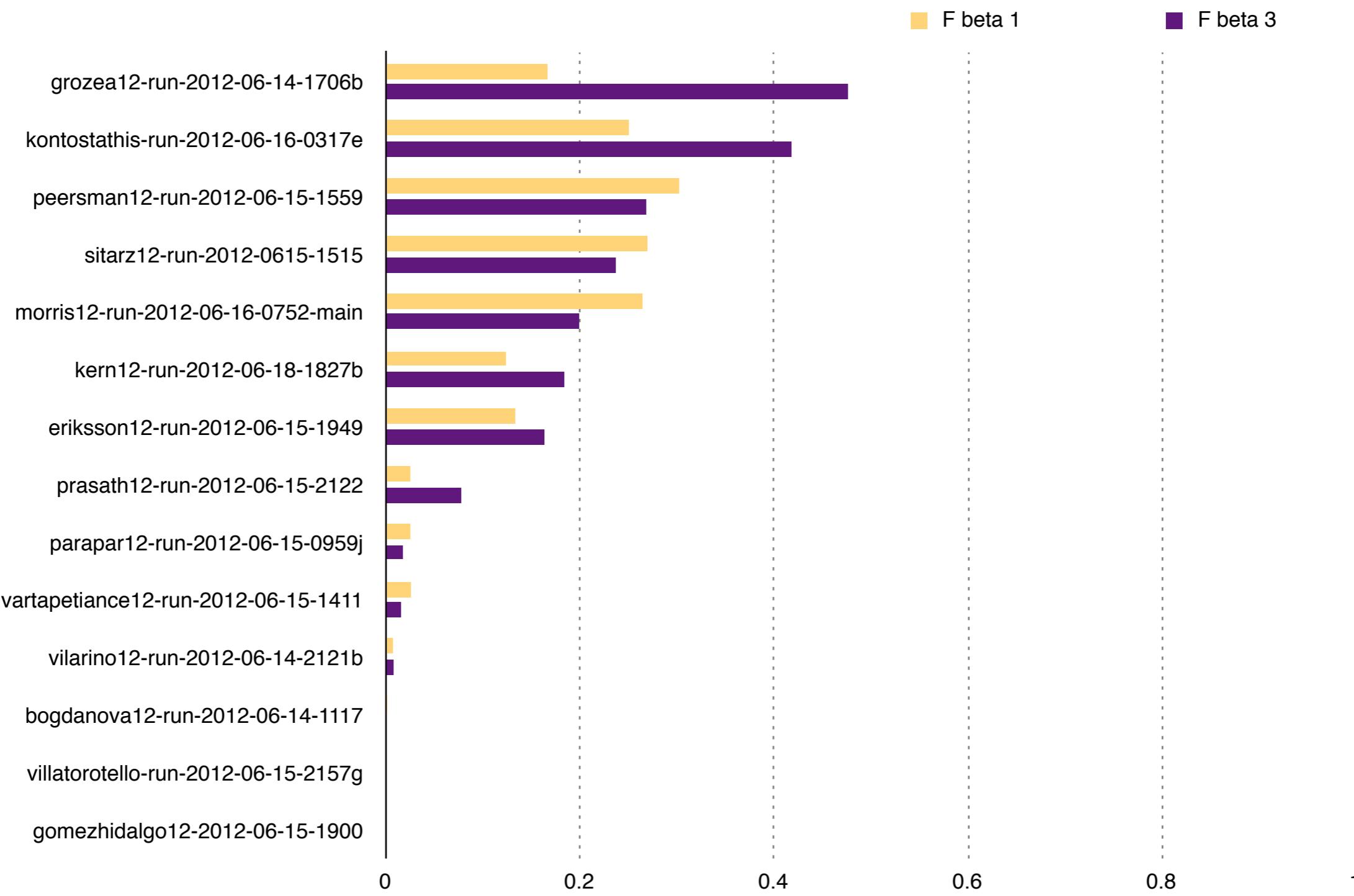
# Results



# Results



# Results



# Approaches

- All the **conversations lines** of **all** the **identified predators** from problem 1 [17] (characters 5-gram + SVM)
- **Filtering**
  - dictionary of “perverted” terms
  - terms with particular score (e.g. TF-IDF weighting)  
[15,13,14,4]
  - LM [19]
- **Lines** already labelled as predatory for problem 1

# Discussions

Issues	Possible Improvements
Performance Evaluation	<ul style="list-style-type: none"> <li>• unranked list of arbitrary number of suspects (1)</li> <li>• 1 expert only (2)</li> </ul> <ul style="list-style-type: none"> <li>• ordered list of k suspects - prioritization (1)</li> <li>• more experts (2) - any volunteer?</li> </ul>
Collection	<ul style="list-style-type: none"> <li>• too easy? - precision 98% (1)</li> </ul> <ul style="list-style-type: none"> <li>• include <b>true negative</b> documents <b>on topic</b> with true positive</li> <li>• hidden collection, access with API</li> </ul>
Task	<ul style="list-style-type: none"> <li>• problem 2 unclear</li> </ul> <ul style="list-style-type: none"> <li>• include both predator and not predator lines</li> <li>• ...</li> </ul>
....	

# Conclusions

## Sexual Predator Identification

- Interesting & realistic topic
- Automatic methods applicable
- Room for improvements



I'm looking  
for new data!

Uncle Sam, PAN@CLEF 2013



Giacomo Inches - PhD Student

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Thanks for  
participating!

Giacomo Inches - PhD Student

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CH - 6904 Lugano  
Switzerland

**Table 2.** Results for problem 1): identify predators. The table reports the evaluation of all the runs submitted ordered by value of F score with  $\beta = 0.5$ . Runs with ranking number are the ones used for official evaluation. RETR. = Retrieved documents, REL. = Relevant document retrieved. P = Precision. R = Recall

Participant run	RETR.	REL.	P	R	$F_{\beta=1}$	$F_{\beta=0.5}$	Official run rank
villatorotello-run-2012-06-15-2157g	204	200	0.9804	0.7874	0.8734	0.9346	1
snider12-run-2012-06-16-0032	186	183	0.9839	0.7205	0.8318	0.9168	2
<i>villatorotello-run-2012-06-15-2157c</i>	<i>211</i>	<i>200</i>	<i>0.9479</i>	<i>0.7874</i>	<i>0.8602</i>	<i>0.9107</i>	
parapar12-run-2012-06-15-0959j	181	170	0.9392	0.6693	0.7816	0.8691	3
morris12-run-2012-06-16-0752-main	159	154	0.9686	0.6063	0.7458	0.8652	4
eriksson12-run-2012-06-15-1949	265	227	0.8566	0.8937	0.8748	0.8638	5
<i>parapar12-run-2012-06-15-0959g</i>	<i>171</i>	<i>162</i>	<i>0.9474</i>	<i>0.6378</i>	<i>0.7624</i>	<i>0.8635</i>	
<i>morris12-run-2012-06-17-0126</i>	<i>152</i>	<i>147</i>	<i>0.9671</i>	<i>0.5787</i>	<i>0.7241</i>	<i>0.8527</i>	
<i>parapar12-run-2012-06-15-0959i</i>	<i>173</i>	<i>161</i>	<i>0.9306</i>	<i>0.6339</i>	<i>0.7541</i>	<i>0.8510</i>	
<i>parapar12-run-2012-06-15-0959e</i>	<i>182</i>	<i>164</i>	<i>0.9011</i>	<i>0.6457</i>	<i>0.7523</i>	<i>0.8350</i>	
peersman12-run-2012-06-15-1559	170	152	0.8941	0.5984	0.7170	0.8137	6
<i>parapar12-run-2012-06-15-0959d</i>	<i>175</i>	<i>151</i>	<i>0.8629</i>	<i>0.5945</i>	<i>0.7040</i>	<i>0.7914</i>	
<i>parapar12-run-2012-06-15-0959c</i>	<i>169</i>	<i>145</i>	<i>0.8580</i>	<i>0.5709</i>	<i>0.6856</i>	<i>0.7796</i>	
<i>villatorotello-run-2012-06-15-2157a</i>	<i>108</i>	<i>103</i>	<i>0.9537</i>	<i>0.4055</i>	<i>0.5691</i>	<i>0.7507</i>	
<i>parapar12-run-2012-06-15-0959b</i>	<i>205</i>	<i>160</i>	<i>0.7805</i>	<i>0.6299</i>	<i>0.6972</i>	<i>0.7449</i>	
grozeal12-run-2012-06-14-1706b	215	163	0.7581	0.6417	0.6951	0.7316	7
<i>parapar12-run-2012-06-15-0959f</i>	<i>202</i>	<i>154</i>	<i>0.7624</i>	<i>0.6063</i>	<i>0.6754</i>	<i>0.7250</i>	
sitarz12-run-2012-0615-1515	218	159	0.7294	0.6260	0.6737	0.7060	8
<i>parapar12-run-2012-06-15-0959h</i>	<i>223</i>	<i>161</i>	<i>0.7220</i>	<i>0.6339</i>	<i>0.6751</i>	<i>0.7024</i>	
<i>parapar12-run-2012-06-15-0959a</i>	<i>200</i>	<i>128</i>	<i>0.6400</i>	<i>0.5039</i>	<i>0.5639</i>	<i>0.6072</i>	
vartapetiance12-run-2012-06-15-1411	160	99	0.6188	0.3898	0.4783	0.5537	9
<i>villatorotello-run-2012-06-15-2157f</i>	<i>269</i>	<i>143</i>	<i>0.5316</i>	<i>0.5630</i>	<i>0.5468</i>	<i>0.5376</i>	
<i>grozeal12-run-2012-06-14-1706a</i>	<i>322</i>	<i>142</i>	<i>0.4410</i>	<i>0.5591</i>	<i>0.4931</i>	<i>0.4604</i>	
kontostathis-run-2012-06-16-0317e	475	170	0.3579	0.6693	0.4664	0.3946	10
<i>kontostathis-run-2012-06-16-0317d</i>	<i>688</i>	<i>172</i>	<i>0.2500</i>	<i>0.6772</i>	<i>0.3652</i>	<i>0.2861</i>	
kang12-run-2012-06-15-0904b	930	203	0.2183	0.7992	0.3429	0.2554	11
<i>kang12-run-2012-06-15-0904a</i>	<i>1049</i>	<i>202</i>	<i>0.1926</i>	<i>0.7953</i>	<i>0.3101</i>	<i>0.2270</i>	
kern12-run-2012-06-18-1827b	1172	177	0.1510	0.6969	0.2482	0.1791	12
<i>kern12-run-2012-06-18-1827a</i>	<i>1172</i>	<i>177</i>	<i>0.1510</i>	<i>0.6969</i>	<i>0.2482</i>	<i>0.1791</i>	
<i>villatorotello-run-2012-06-15-2157d</i>	<i>240</i>	<i>36</i>	<i>0.1500</i>	<i>0.1417</i>	<i>0.1457</i>	<i>0.1483</i>	
<i>kontostathis-run-2012-06-16-0317c</i>	<i>3696</i>	<i>206</i>	<i>0.0557</i>	<i>0.8110</i>	<i>0.1043</i>	<i>0.0685</i>	
<i>villatorotello-run-2012-06-15-2157b</i>	<i>204</i>	<i>12</i>	<i>0.0588</i>	<i>0.0472</i>	<i>0.0524</i>	<i>0.0561</i>	
<i>kontostathis-run-2012-06-16-0317a</i>	<i>5225</i>	<i>206</i>	<i>0.0394</i>	<i>0.8110</i>	<i>0.0752</i>	<i>0.0487</i>	
<i>kontostathis-run-2012-06-16-0317b</i>	<i>5625</i>	<i>221</i>	<i>0.0393</i>	<i>0.8701</i>	<i>0.0752</i>	<i>0.0486</i>	
<i>vilarino12-run-2012-06-14-2121a</i>	<i>9071</i>	<i>236</i>	<i>0.0260</i>	<i>0.9291</i>	<i>0.0506</i>	<i>0.0323</i>	
bogdanova12-run-2012-06-14-1117	2109	55	0.0261	0.2165	0.0466	0.0316	13
prasath12-run-2012-06-15-2122	10289	207	0.0201	0.8150	0.0393	0.0250	14
vilarino12-run-2012-06-14-2121b	5225	98	0.0188	0.3858	0.0358	0.0232	15
<i>villatorotello-run-2012-06-15-2157e</i>	<i>305</i>	<i>6</i>	<i>0.0197</i>	<i>0.0236</i>	<i>0.0215</i>	<i>0.0204</i>	
gomezhidalgo12-2012-06-15-1900	150	1	0.0067	0.0039	0.0050	0.0059	16

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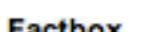
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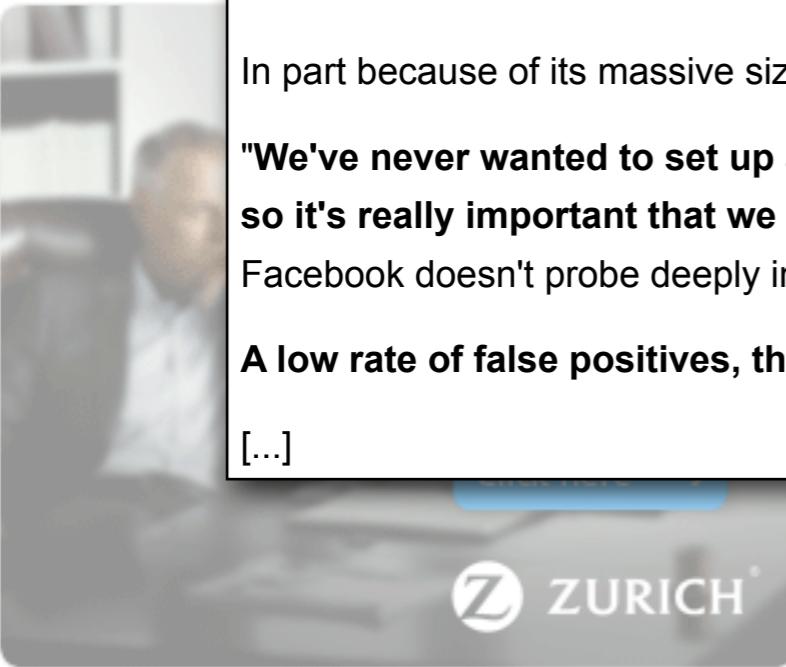
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Editor's Choice

Thursday, September 20, 12

# <http://www.reuters.com/article/2012/07/12/us-usa-internet-predators-idUSBRE86B05G20120712>

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[...]

Facebook's software likewise depends on relationship analysis and archives of real chats that preceded sex assaults, **Chief Security Joe Sullivan told Reuters in the company's most expansive comments on the subject to date.**

Like most of its peers, Facebook generally avoids discussing its safety practices to discourage scare stories, because it doesn't catch many wrongdoers, and to sidestep privacy concerns. Users could be unnerved about the extent to which their conversations are reviewed, at least by computer programs.

**CATCHING ONE IN 10?**

In part because of its massive size, Facebook relies more than some rivals on such technology.

"**We've never wanted to set up an environment where we have employees looking at private communications, so it's really important that we use technology that has a very low false-positive rate**" he said. In addition, Facebook doesn't probe deeply into what it thinks are pre-existing relationships.

**A low rate of false positives, though, also means that many dangerous communications go undetected.**

[...]



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**Editor's Choice**

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