Science, AskScience, and BadScience: on the coexistence of highly related communities

Jack Hessel, Chenhao Tan, Lillian Lee
Cornell University
Meetup

Search results for vegetarian within 10 miles of New York, New York

- The New York City Vegetarian & Vegan Meetup
  We're 10,077 Vegetarians & Vegans

- NYC Vegetarian and Vegan Families
  We're 895 Vegetarians/Vegans

- The NY single senior vegetarian/vegan meetup group
  We're 147 vegetarians/vegans of NYC

- The Staten Island Vegetarian & Vegan Meetup (NYC/NJ)
  We're 339 Friends!

- Queens-Nassau Vegan & Vegetarian Dining Adventures
  We're 62 Veg'n Food Adventurers

- V Rock! The Hoboken + Jersey City Vegetarian + Vegan Meetup
  We're 380 V-Rockers

- Vegetarian Cooking Classes - NYC
  We're 1,069 Members

- NYC Vegetarian/Vegan Parents & Kids Group
  We're 294 Veg/vegan kids & parents

- Hoboken Vegan (& Vegetarian)
  We're 229 Hoboken Vegans/ Vegetarian
5692 Subreddits

88M Posts

887.5M Comments in Context

Most work done by: Jason Baumgartner of pushshift.io and (Tan and Lee 2015)
1. Affixes

/r/TrueAtheism = True + /r/Atheism
<table>
<thead>
<tr>
<th>Adjective-like</th>
</tr>
</thead>
<tbody>
<tr>
<td>“better”</td>
</tr>
<tr>
<td>“parody”</td>
</tr>
<tr>
<td>“derivative”</td>
</tr>
<tr>
<td>“genre”</td>
</tr>
<tr>
<td>“nsfw”</td>
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<td>“learning, improvement”</td>
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<td>“place”</td>
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<td>“medium”</td>
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<tr>
<td>“subject”</td>
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<table>
<thead>
<tr>
<th>Minor</th>
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<tbody>
<tr>
<td>“equivalent, competition”</td>
</tr>
<tr>
<td>“generation”</td>
</tr>
<tr>
<td>“modifier”</td>
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<td>Verb-like</td>
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1. Affixes

/r/TrueAtheism = True + /r/Atheism
1. Affixes

/r/TrueAtheism = True + /r/Atheism

2. Topic

or
6.6M Text Posts  

3.2K Communities

\[ \phi_k \]

\[ \beta \]

\[ \alpha \]

\[ \theta \]

\[ Z \]

\[ W \]

\[ \theta_S \]

\[ \alpha_k \cdot 10^2 \quad \text{Description} \quad \text{Top Words} \]

<table>
<thead>
<tr>
<th>( \alpha_k \cdot 10^2 )</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>.992</td>
<td>Purchase</td>
<td>store, buy, online, stores, shop, find, local, sell, good, price</td>
</tr>
<tr>
<td>.433</td>
<td>Donations</td>
<td>donate, money, charity, raise, donations, people, support, donation</td>
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<tr>
<td>.332</td>
<td>Tabletop RPG</td>
<td>character, magic, party, level, campaign, spell, spells, dragon</td>
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<tr>
<td>.147</td>
<td>Bioshock</td>
<td>time, timeline, booker, elizabeth, peter, universe, infinite, end, back</td>
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<tr>
<td>.133</td>
<td>Pokemon</td>
<td>shiny, male, adamant, timid, female, ball, modest, egg, jolly, traded</td>
</tr>
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Topic Distributions available from [Hessel et al. 2015]
Vegetarian

vegan (.975)
Paleo (.944)
glutenfree (.917)
nutrition (.884)
juicing (.881)
VegRecipes (.832)
EatCheapAndHealthy (.831)
fitmeals (.827)
food (.823)
keto (.792)
1. Affixes

/r/TrueAtheism = True + /r/Atheism

2. Topic

or
1. Affixes

/r/TrueAtheism = True + /r/Atheism

2. Topic

“Highly Related”

or
1. Affixes  "Highly Related"

/r/TrueAtheism = True + /r/Atheism

2. Topic

or

3. Founders are from original community
1. Affixes

"Highly Related"

/r/TrueAtheism = True + /r/Atheism

2. Topic

or

3. Founders are from original community

"Spinoff"
Atheism

True Atheism
More Active in Original

“Action”
“Better”
“Parody”
“Derivative”
“Generation”
“Subject”
“Learning/Improvement”
“Medium”
“Genre”
“Place”
“nsfw”
Thanks to David Mimno + Mor Naaman for their helpful comments.

Questions?

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@jmhessel
Credits

Special thanks to all the people who made and released these awesome resources for free:

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