

# Derpibooru in Numbers



# **Content Warning**

**This panel contains mention of not safe for work content and themes, as well as mild swearing**

# About me

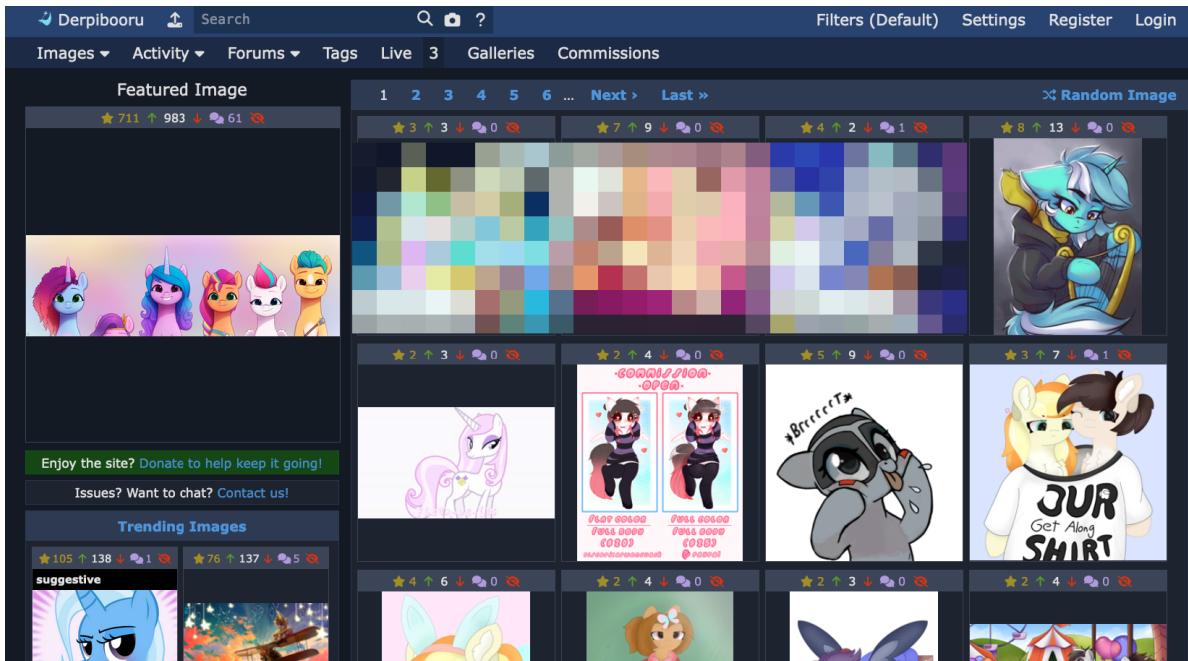
- Brony since 2013
- Furry since... later
- Hailing from Cologne
- Software Engineer
- Working with Android
- Wanna-Be Datascientist



# About derpibooru

- Image sharing website (image booru)
- First upload: 02.01.2012
- Also includes forums and a commission page
- Around 1.000.000 unique visitors a month
- Over 100 TB of data transferred per month
- majority of images served are png
  - jpeg
  - svg
  - gif
- Majority of users from the USA
  - not so closely followed by Russia, China and the UK

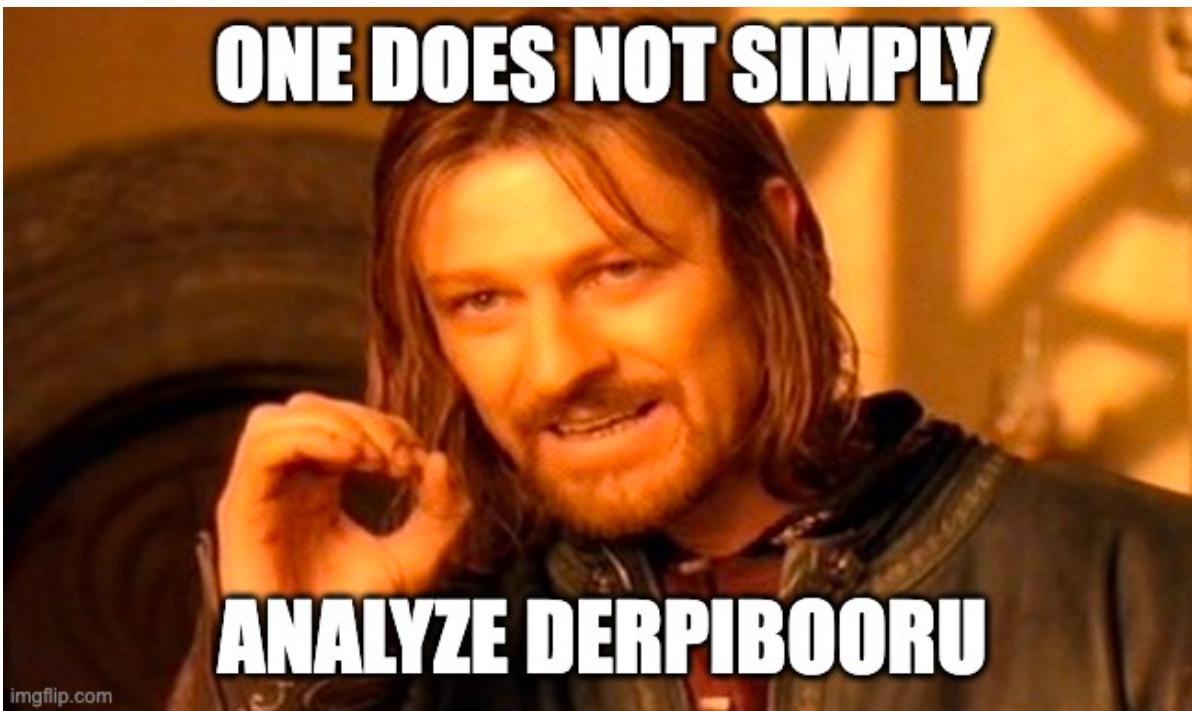
# About derpibooru



# About datascience

- Gathering knowledge from datasets
- Closely related to computer science and statistics
- Found knowledge used to predict future events

# So how does one start analyzing?



# **Option One**

**Do it manually**

# Option One

## Do it manually

Site Resources	Help & Information	Community
<a href="#">Site Rules</a>	<a href="#">Changelog</a>	<a href="#">Contact</a>
<a href="#">Privacy Policy</a>	<a href="#">FAQs</a>	<a href="#">Donations</a>
<a href="#">Tag Guidelines</a>	<a href="#">API Docs</a>	<a href="#">Site Staff List</a>
About Uploading	<a href="#">Keyboard Shortcuts</a>	<a href="#">Statistics</a>
Spoiler Guidelines	<a href="#">Advertising</a>	<a href="#">About</a>
Takedown Requests	<a href="#">Onion Service</a>	<a href="#">Twitter</a>
Do-Not-Post List		

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# Option One

## Do it manually

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### Statistics

Last updated less than a minute ago

 [Revision history](#)

### Images

There are **2,838,418** non-deleted images total in our database. Of these, **605** images were uploaded in the last 24 hours.

This net total excludes the **322,387** images that have been deleted or marked as duplicates.

# Option One

## Do it manually

<p><b>Site Resources</b></p> <p><a href="#">Site Rules</a> <a href="#">Privacy Policy</a> <a href="#">Tag Guidelines</a> About Uploading Spoiler Guidelines Takedown Requests Do-Not-Post List</p>	<p><b>Help &amp; Information</b></p> <p><a href="#">Changelog</a> <a href="#">FAQs</a> API Docs Keyboard Shortcuts Advertising Onion Service</p>	<p><b>Community</b></p> <p><a href="#">Contact</a> <a href="#">Donations</a> Site Staff List Statistics About Twitter</p>
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# **Option Two**

## **Pray to the API Gods**

<https://derpibooru.org/images/1449334>

# **Option Two**

## **Pray to the API Gods**

<https://derpibooru.org/images/1449334>

<https://derpibooru.org/api/v1/json/images/1449334>

# Option Two

```
JSON Raw Data Headers
Save Copy Collapse All Expand All Filter JSON
▼ image:
  uploader_id: 297844
  duplicate_of: null
  first_seen_at: "2017-05-29T20:11:37Z"
  thumbnails_generated: true
  hidden_from_users: false
  duration: 3.84
  ▶ view_url: "https://derpicdn.net/img\_l\_male\_mirror\_never+.gif"
  ▶ intensities: {…}
  upvotes: 165
  source_url: "http://sharing.rainbowdash.cc/junipermontage/"
  id: 1449334
  name: "rick.gif"
  width: 660
  ▶ tag_ids: […]
  processed: true
  created_at: "2017-05-29T20:11:37Z"
  mime_type: "image/gif"
  tag_count: 19
  deletion_reason: null
  description: ""
  spoilered: false
  ▶ source_urls:
    0: "http://sharing.rainbowdash.cc/junipermontage/"
    downvotes: 4
  ▶ tags:
    0: "animated"
    1: "edit"
    2: "edited screencap"
    3: "equestria girls"
    4: "female"
    5: "gif"
```

# Option Two

There are 2,838,418 non-deleted images total in our database.

# **Option Three**

**Just download the entire  
database**

[https://derpibooru.org/pages/data\\_dumps](https://derpibooru.org/pages/data_dumps)

# Option Three

**Just download the entire database**

[https://derpibooru.org/pages/data\\_dumps](https://derpibooru.org/pages/data_dumps)

Download		
Size	Link	SHA-256
4.3G	<a href="#">derpibooru_public_dump_2023_05_29.pgdump</a>	ca6fd44ef27a1f3a96fd9ed44c87ef0e6562f1a5544aa9c02b96256dead27a85
Note: these dumps do not include images.		

# Success

T	WHERE	ORDER BY
1	id : 2557115	created_at : 2021-02-23 15:21:36.000000
2	2675207	updated_at : 2021-08-11 02:16:17.000000
3	654385	2014-06-16 08:46:19.861000
4	2218418	2019-12-01 22:59:31.414799
5	3831962	2023-01-23 13:27:22.000000
6	2075417	2019-06-26 03:40:04.953443
7	2600250	2021-04-24 01:53:38.000000
8	454218	2013-10-22 13:35:20.635000
9	56785	2012-07-26 01:35:16.000000
10	284454	2013-03-31 19:52:17.344000
11	391637	2013-08-05 03:31:40.970000
12	399298	2013-08-13 16:07:39.876000
13	403462	2013-08-18 09:12:15.443000
14	2821967	2022-03-09 15:01:10.000000
15	3105790	2023-04-11 13:37:26.000000
16	2219695	2019-12-13 14:22:04.686757
17	1238876	2016-08-21 02:01:15.857126
18	2845184	2022-04-13 16:46:08.000000
19	2415457	2020-08-04 09:50:54.000000
20	396845	2013-08-10 22:30:14.974000
21	153365	2012-11-16 00:30:13.000000
22	2051456	2019-05-28 11:30:27.581531
23	366976	2013-07-07 22:06:35.577000
24	2476732	2020-10-28 18:58:33.000000
25	2222278	2019-12-16 17:42:18.522803
26	717274	2014-09-07 18:27:29.048000
27	1116865	2016-03-26 04:31:06.008772
28	1256658	2016-09-24 01:52:41.856505
29	2741235	2021-11-08 20:54:19.000000
		updated_at : 2023-04-10 16:19:03.000000
		image_width : 3000
		image_height : 2250
		image_size : 4459739
		comment_count : 0
		image_width : 1200
		image_height : 1200
		image_size : 65864
		comment_count : 1
		image_width : 800
		image_height : 823
		image_size : 185064
		comment_count : 0
		image_width : 985
		image_height : 1824
		image_size : 78147
		comment_count : 1
		image_width : 832
		image_height : 1835
		image_size : 841751
		comment_count : 1
		image_width : 1506
		image_height : 1718
		image_size : 1290458
		comment_count : 2
		image_width : 1070
		image_height : 1400
		image_size : 100701
		comment_count : 1
		image_width : 426
		image_height : 341
		image_size : 161093
		comment_count : 0
		image_width : 500
		image_height : 281
		image_size : 1780448
		comment_count : 18
		image_width : 1280
		image_height : 768
		image_size : 685878
		comment_count : 6
		image_width : 1280
		image_height : 1280
		image_size : 662063
		comment_count : 2
		image_width : 912
		image_height : 1280
		image_size : 139187
		comment_count : 3
		image_width : 500
		image_height : 281
		image_size : 623272
		comment_count : 2
		image_width : 1536
		image_height : 2048
		image_size : 731833
		comment_count : 0
		image_width : 2100
		image_height : 2300
		image_size : 315992
		comment_count : 6
		image_width : 833
		image_height : 1824
		image_size : 63807
		comment_count : 2
		image_width : 1887
		image_height : 1537
		image_size : 966617
		comment_count : 0
		image_width : 3000
		image_height : 3842
		image_size : 5875004
		comment_count : 0
		image_width : 1452
		image_height : 2244
		image_size : 514075
		comment_count : 3
		image_width : 4592
		image_height : 3056
		image_size : 3021935
		comment_count : 1
		image_width : 541
		image_height : 700
		image_size : 76358
		comment_count : 5
		image_width : 1108
		image_height : 1334
		image_size : 502180
		comment_count : 3
		image_width : 898
		image_height : 1836
		image_size : 1288219
		comment_count : 0
		image_width : 1000
		image_height : 1000
		image_size : 99597
		comment_count : 1
		image_width : 1357
		image_height : 1513
		image_size : 796944
		comment_count : 1
		image_width : 661
		image_height : 934
		image_size : 185878
		comment_count : 0
		image_width : 2559
		image_height : 1826
		image_size : 658133
		comment_count : 2
		image_width : 1897
		image_height : 1000
		image_size : 643112
		comment_count : 12
		image_width : 2600
		image_height : 3840
		image_size : 9704802
		comment_count : 9

# Let's do some science

```
SELECT intersting_analytics  
from derpibooru;
```

# Let's do some science

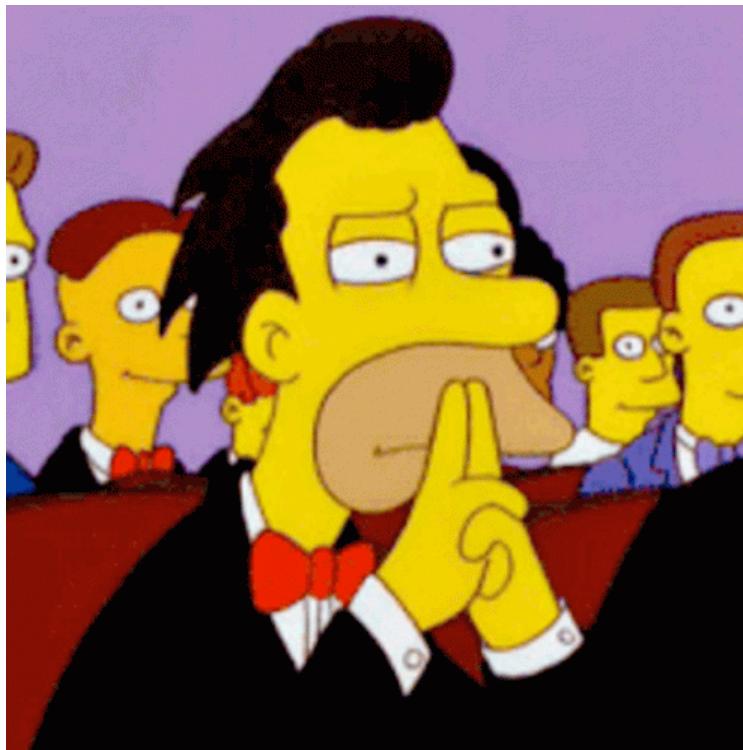
```
SELECT intersting_analytics  
from derpibooru;
```

[42P01] ERROR: relation "derpibooru" does not exist

# Let's do some science

```
SELECT intersting_analytics  
from derpibooru;
```

[42P01] ERROR: relation "derpibooru" does not exist



# Let's do some more science

```
select tag_id, name, count
from (select count(1) as count, tag_id
      from images
           join image_taggings it on images.id = it.image_id
           join tags t on it.tag_id = t.id
      where category = 'character'
      group by tag_id) as tag_count
           join tags on tag_count.tag_id = tags.id
order by count desc;
```

# Let's do some more science

#	name	count
1	twilight sparkle	385.404
2	rainbow dash	299.140
3	fluttershy	274.734
4	pinkie pie	273.756
5	rarity	234.390
6	applejack	215.989
7	princess luna	125.722
8	princess celestia	122.372
9	spike	101.369
10	trixie	86.427

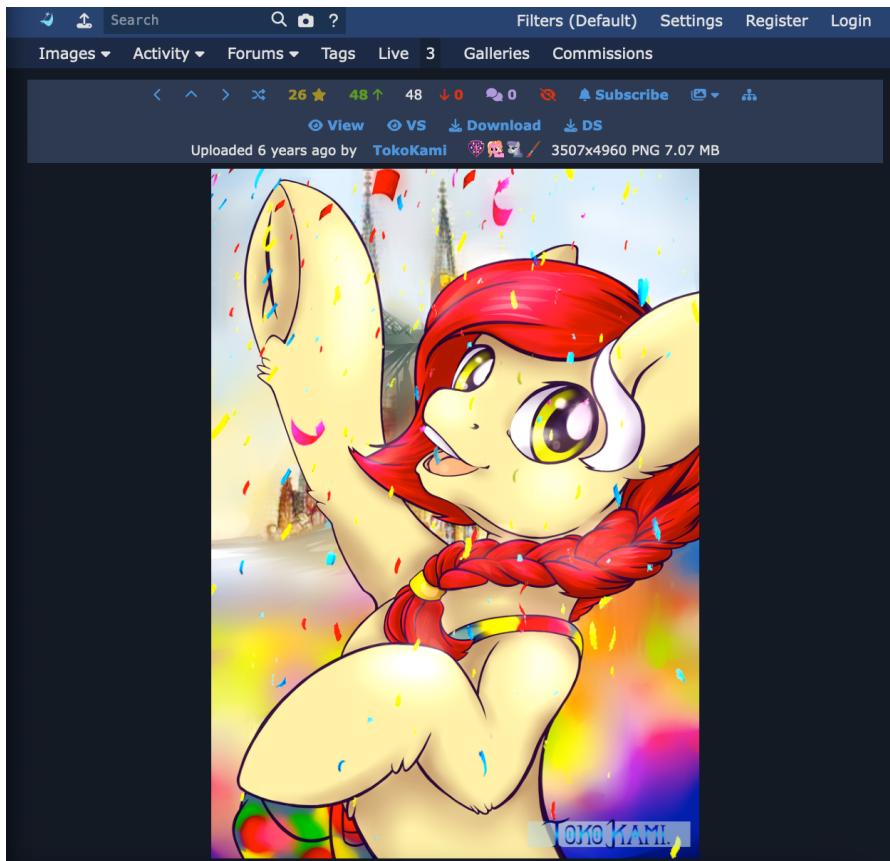
#	name	count
11	sunset shimmer	85.092
12	scootaloo	65.186
13	apple bloom	64.926
14	starlight glimmer	62.814
15	derpy hooves	62.715
16	sweetie belle	62.044
17	queen chrysalis	45.083
18	princess cadance	42.933
19	discord	40.142
20	lyra heartstrings	37.110

# Let's do some more science

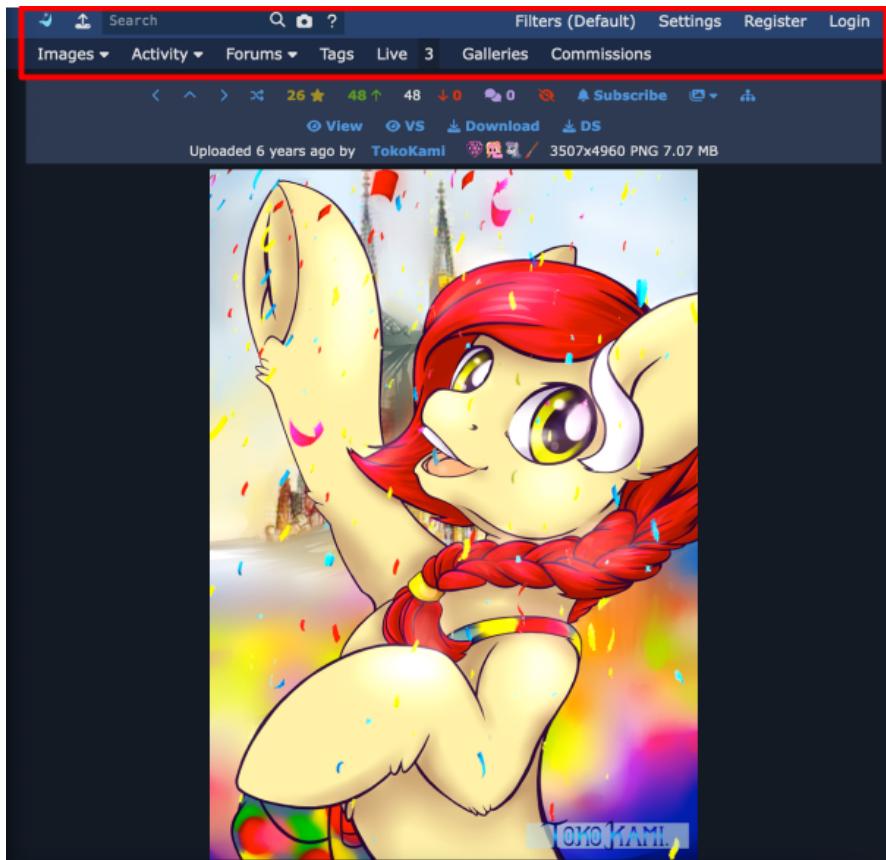
## G5 Edition

#	<b>name</b>	<b>count</b>
36	izzy moonbow	16.763
37	flash sentry	16.588
38	maud pie	15.825
39	sunny starscout	15.761
40	pipp petals	14.867
53	hitch trailblazer	10.087
155	sprout cloverleaf	2.313

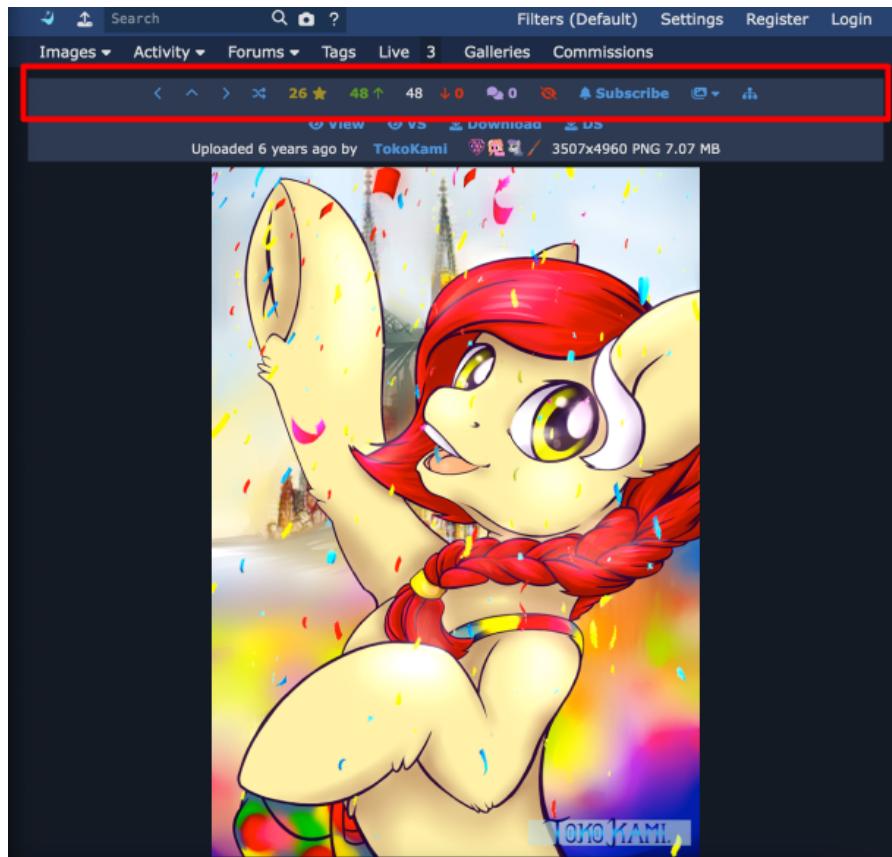
# Let's start at the start



# Let's start at the start



# All the scores



# **Most Favourites**

# Most Favourites



This image is tagged **explicit**, which is hidden by your current filter.

# **2nd Most Favourites**

# 2nd Most Favourites



This image is tagged **explicit**, which is hidden by your current filter.

# 4th Most Favourites



# **Most upvotes**

# Most upvotes



# **Most downvotes**

# Most downvotes



# Most controversial image

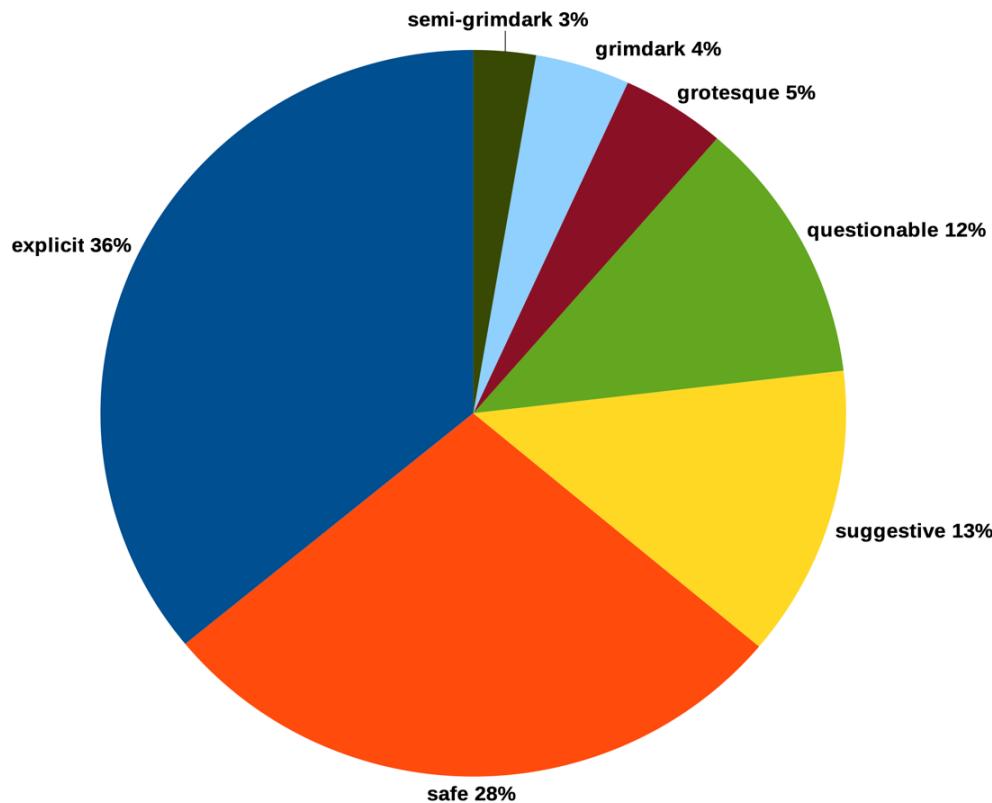
- score (upvotes - downvotes) close to 0
- absolute number of votes as high as possible

# Most controversial image

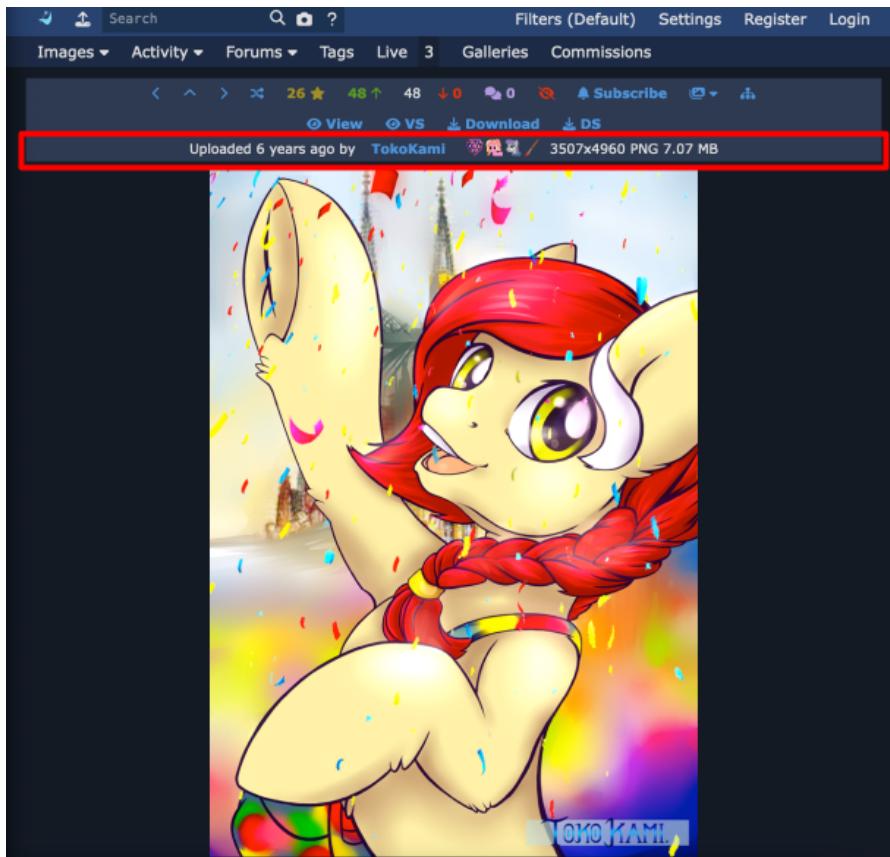
- score (upvotes - downvotes) close to 0
- absolute number of votes as high as possible
- surprisingly united

# Most controversial image

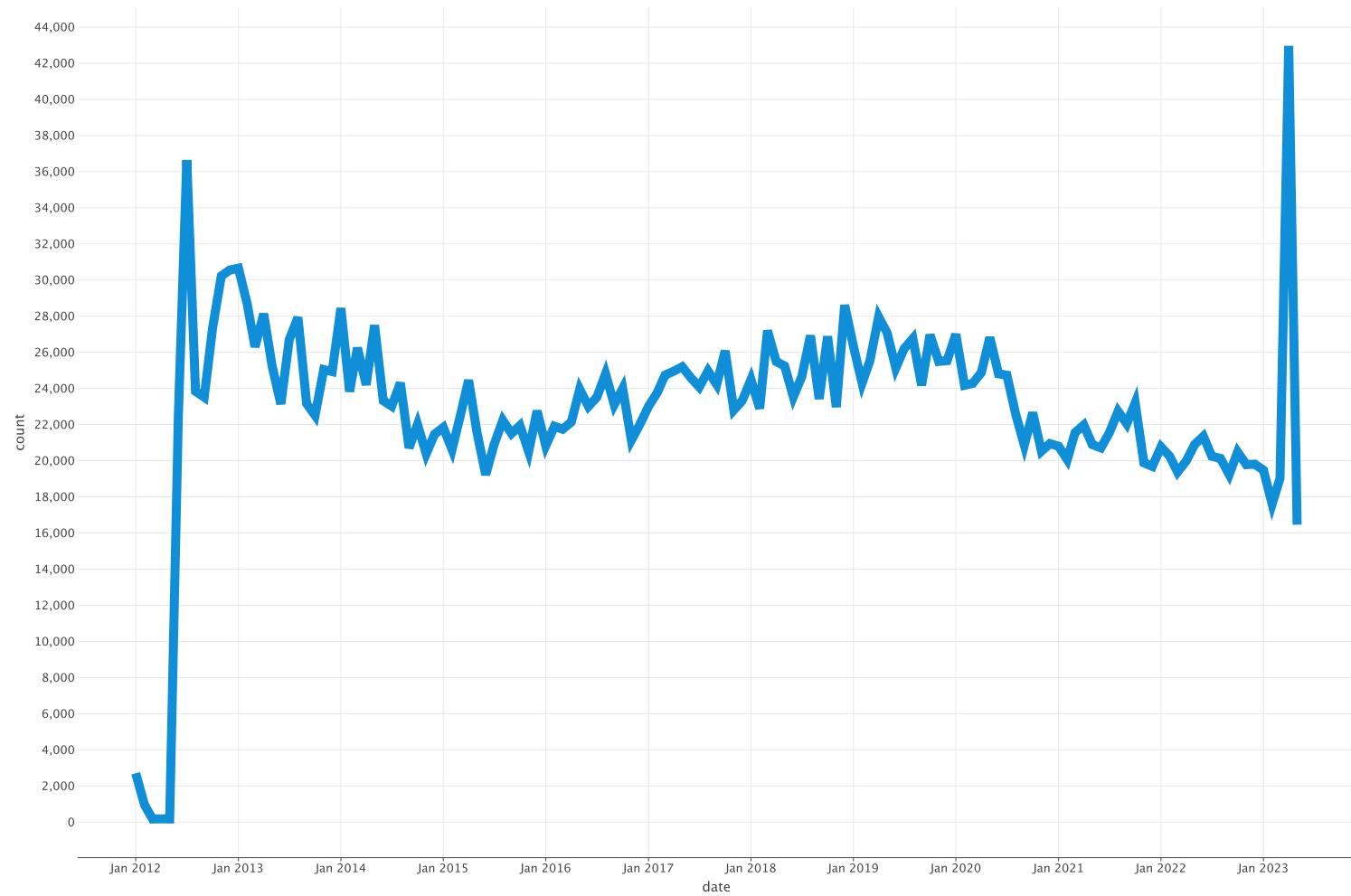
- score (upvotes - downvotes) close to 0
- absolute number of votes as high as possible
- surprisingly united



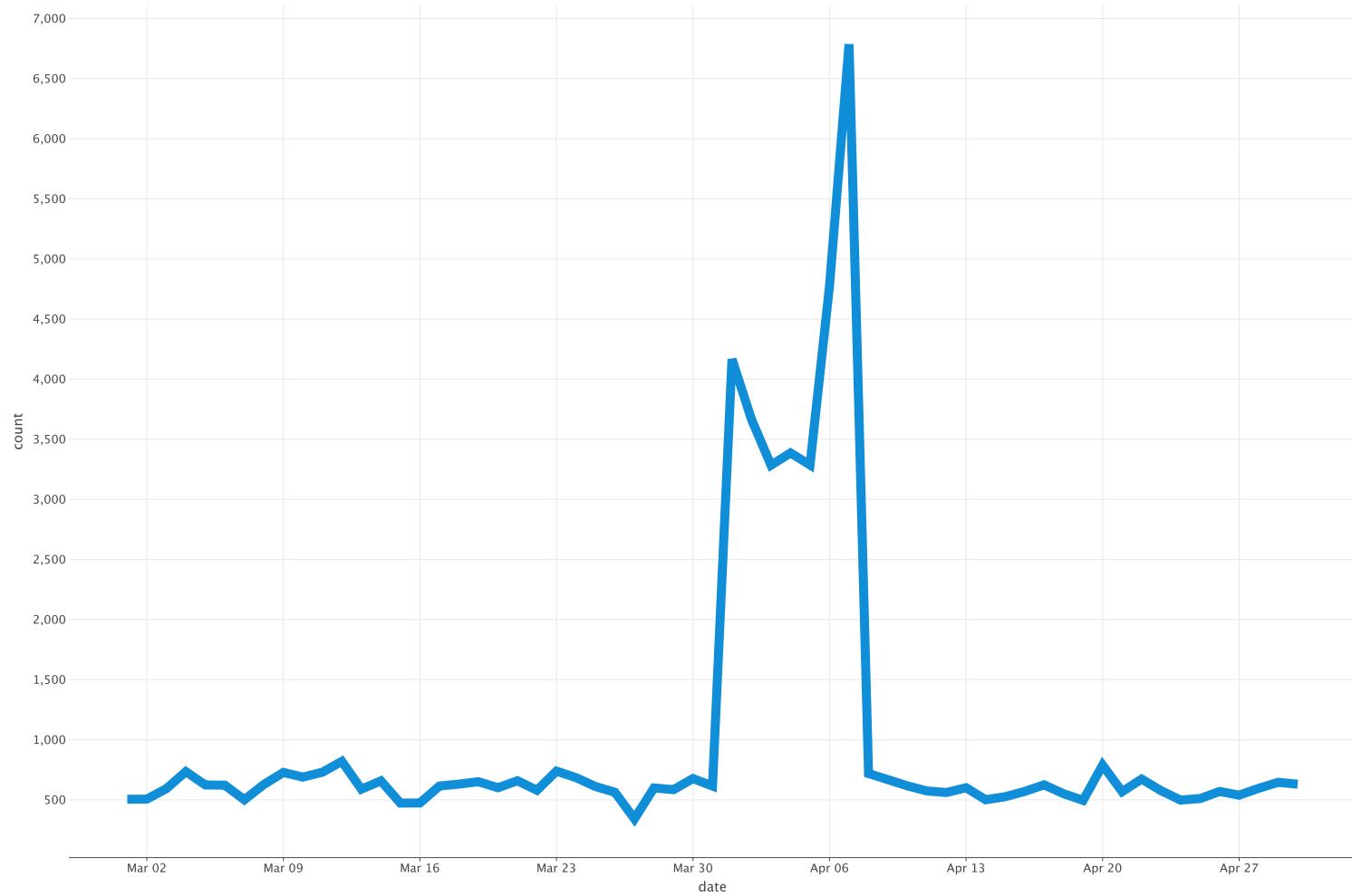
# Metadata



# ImagesOverTime



# ImagesOverTime



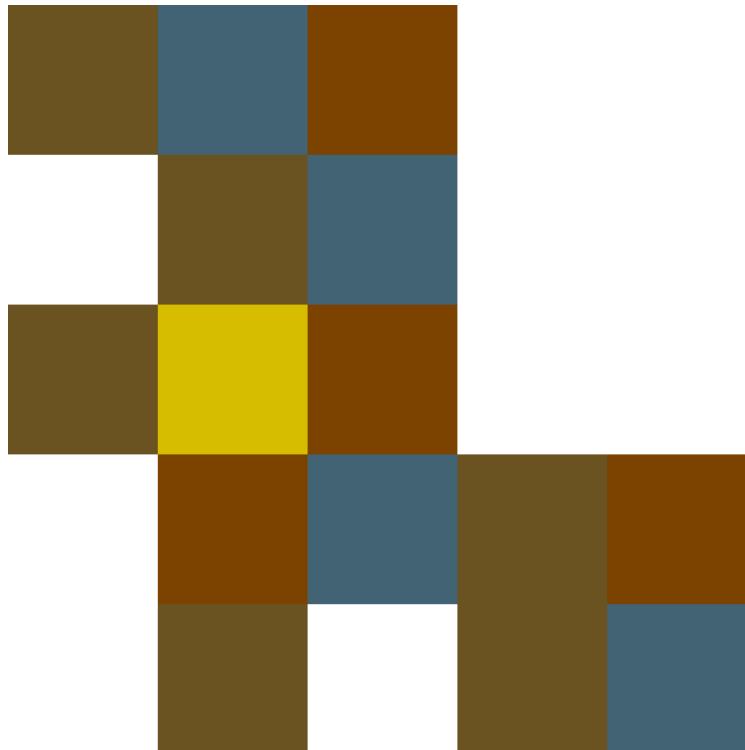
# **Smallest Picture**

# Smallest Picture

Uploaded 5 years ago by **Background Pony #97A9** 5x5 GIF 0 kB

...

# Smallest Picture



# **Biggest Picture**

- No Videos or Animations
- Largest by Filesize

# Biggest Picture



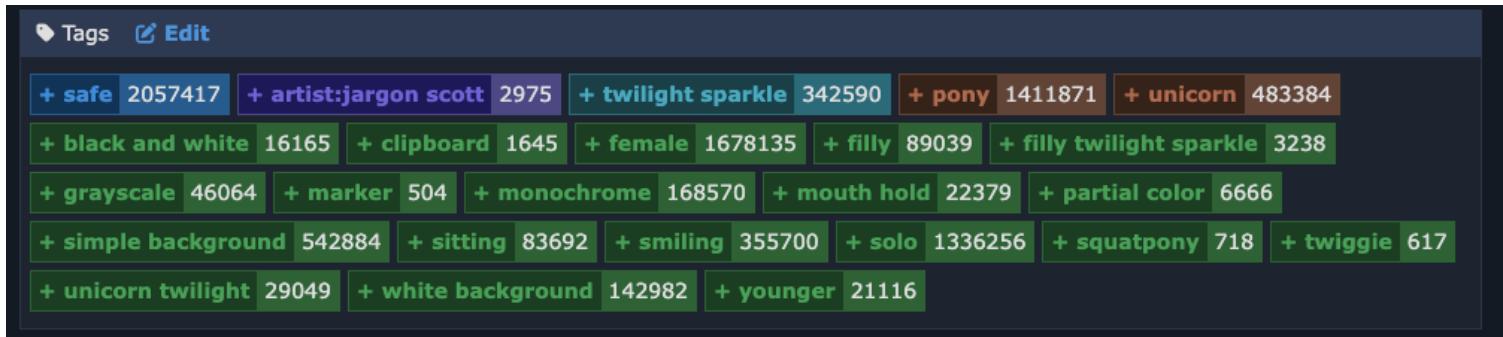
# Biggest Picture



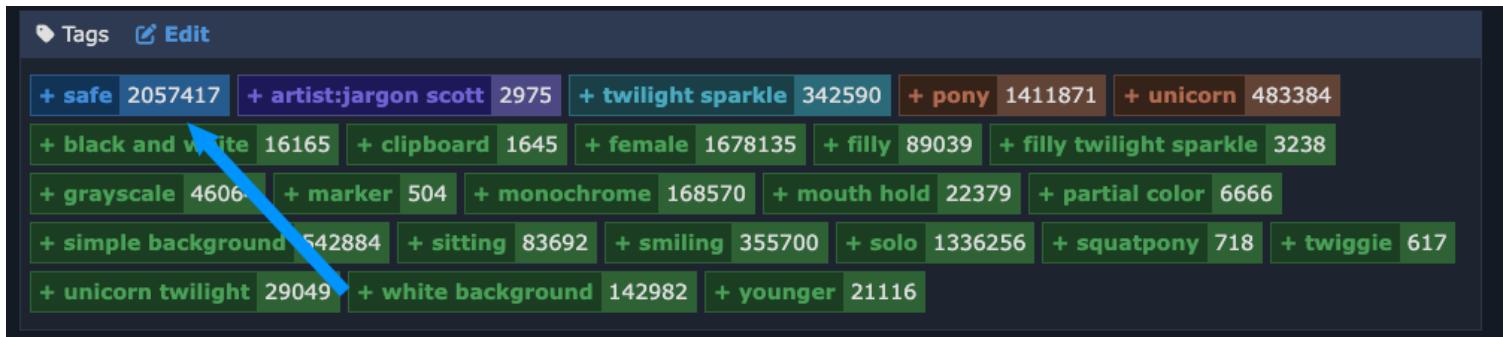
# Biggest Picture



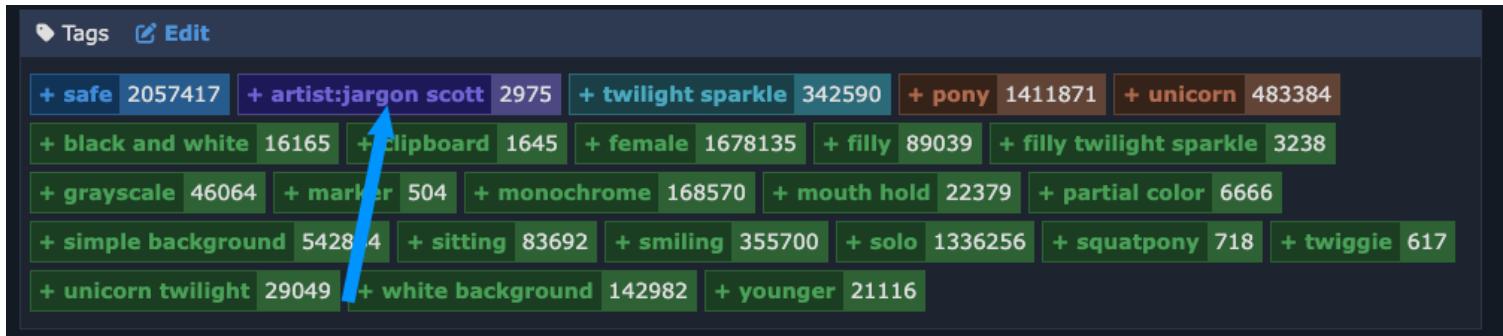
# Talking about tags



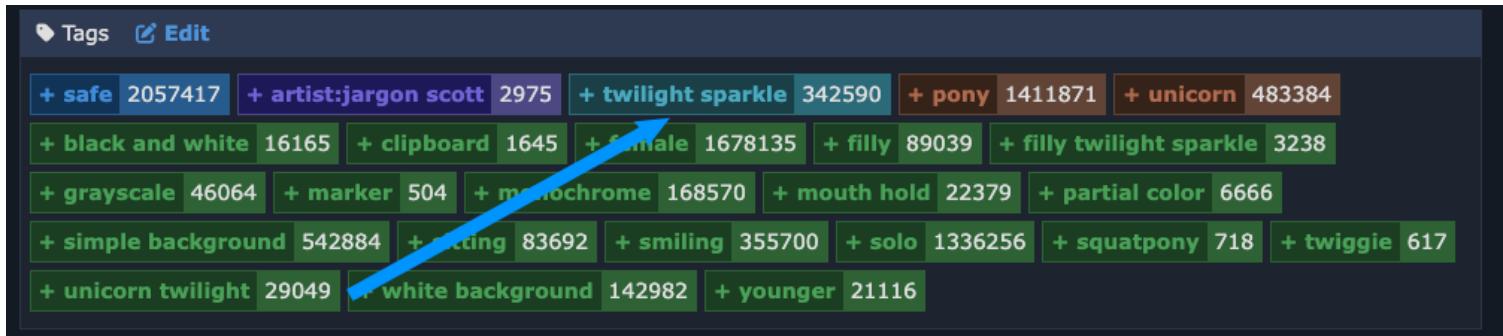
# Talking about tags



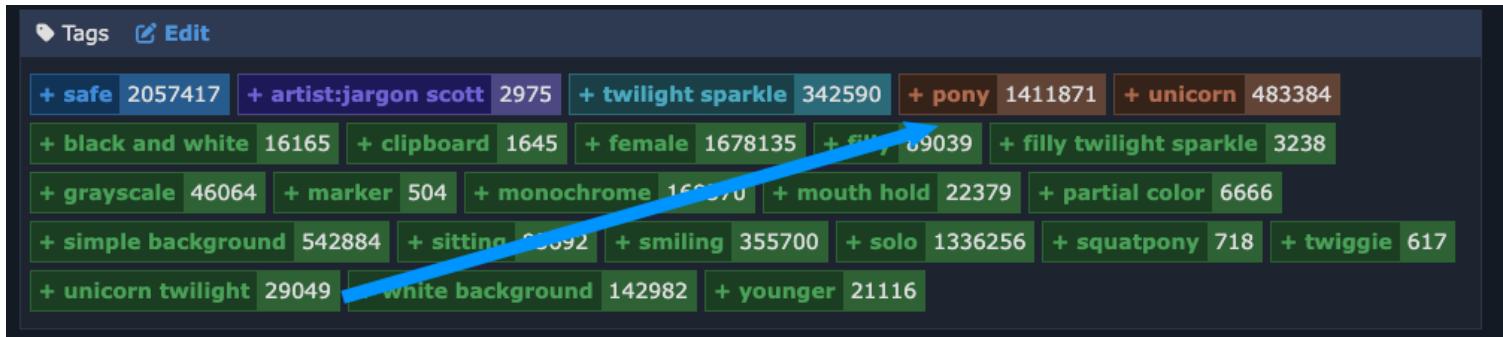
# Talking about tags



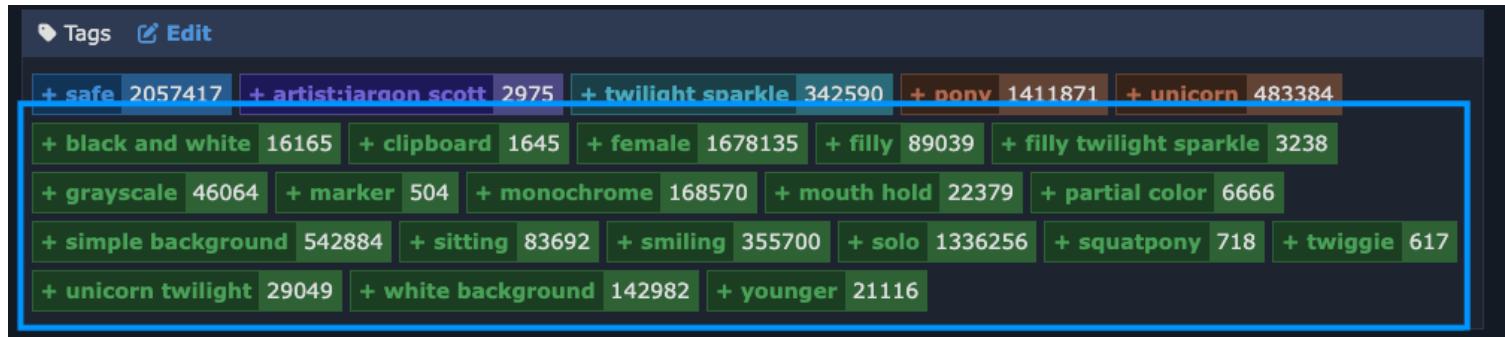
# Talking about tags



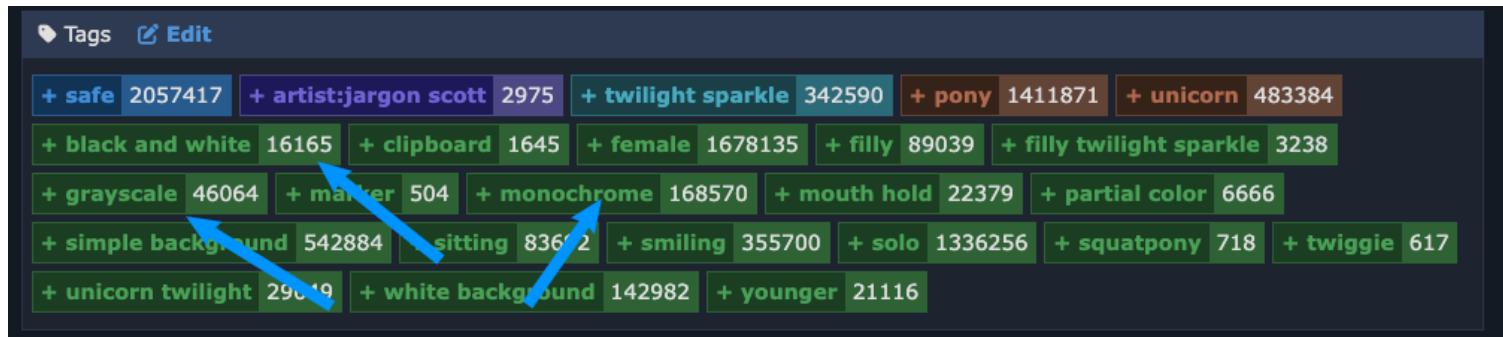
# Talking about tags



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# Most used tags

#	<b>name</b>	<b>count</b>
1	safe	2,240,831
2	female	1,733,555
3	pony	1,453,306
4	solo	1,420,231
5	oc	945,168
6	oc only	679,532
7	mare	676,629
8	clothes	627,939
9	simple background	566,333
10	nudity	518,003

#	<b>name</b>	<b>count</b>
11	male	511,549
12	unicorn	499,016
13	pegasus	454,320
14	earth pony	404,475
15	twilight sparkle	382,305
16	smiling	374,632
17	anthro	363,840
18	alicorn	305,071
19	rainbow dash	296,114
20	screencap	290,528

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10	<b>nudity</b>	518,003

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16	smiling	374,632
17	anthro	363,840
18	alicorn	305,071
19	rainbow dash	296,114
20	screencap	290,528

# **Body Types**

**+ anthro 332469**

**+ digitigrade anthro 2713**

# Body Types

#	name	count
1	unguligrade anthro	65,584



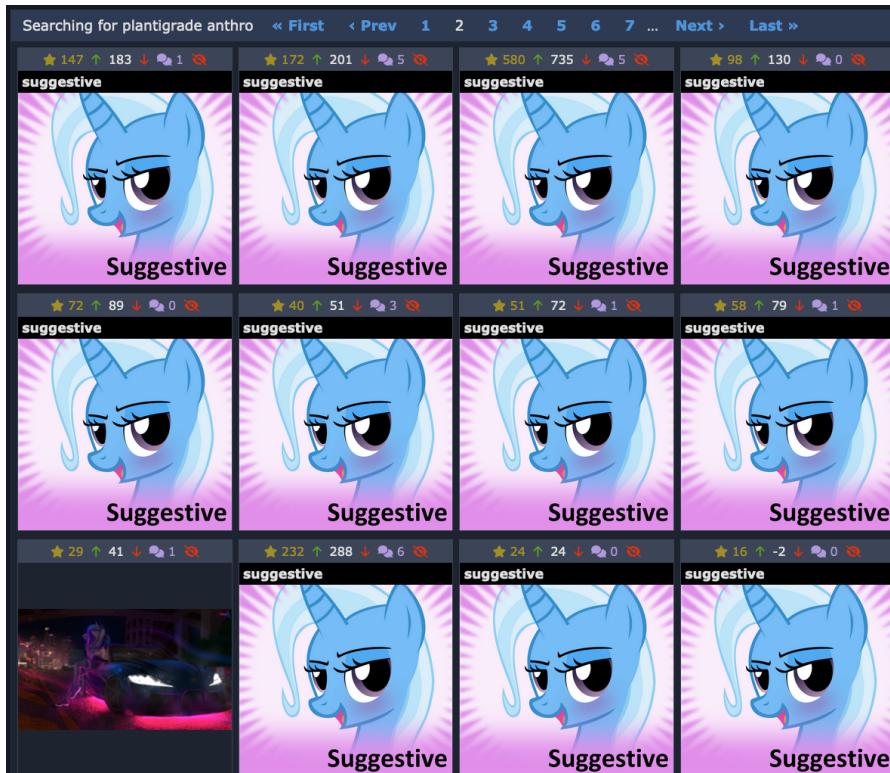
LUMMH . 2022

# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277



# Body Types



# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525



# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800



# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800
5	taur	1,973



# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800
5	taur	1,973
6	human head pony	145



# Body Types

#	name	count
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800
5	taur	1,973
6	human head pony	145
7	two legged creature	75



# Body Types

#	<b>name</b>	<b>count</b>
1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800
5	taur	1,973
6	human head pony	145
7	two legged creature	75
8	pony head on human body	62

# Body Types



# Body Types

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1	unguligrade anthro	65,584
2	plantigrade anthro	48,277
3	semi-anthro	21,525
4	digitigrade anthro	2,800
5	taur	1,973
6	human head pony	145
7	two legged creature	75
8	pony head on human body	62
9	kemonomimi	53



# Body Types

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2	plantigrade anthro	48,277
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4	digitigrade anthro	2,800
5	taur	1,973
6	human head pony	145
7	two legged creature	75
8	pony head on human body	62
9	kemonomimi	53
10	probably not salmon	49

# Body Types



# **Tags**

**Most tagged image**

# Tags

## Most tagged image

	image_id	count
1	3115555	5962

# Tags

## Most tagged image

This image has been deleted

Reason: **Rule #0/5 (Chloe)**

# Tags

## Most tagged image

This image has been deleted

Reason: **Rule #3**

# Tags

## Most tagged image

This image has been deleted

Reason: **Rule 5**

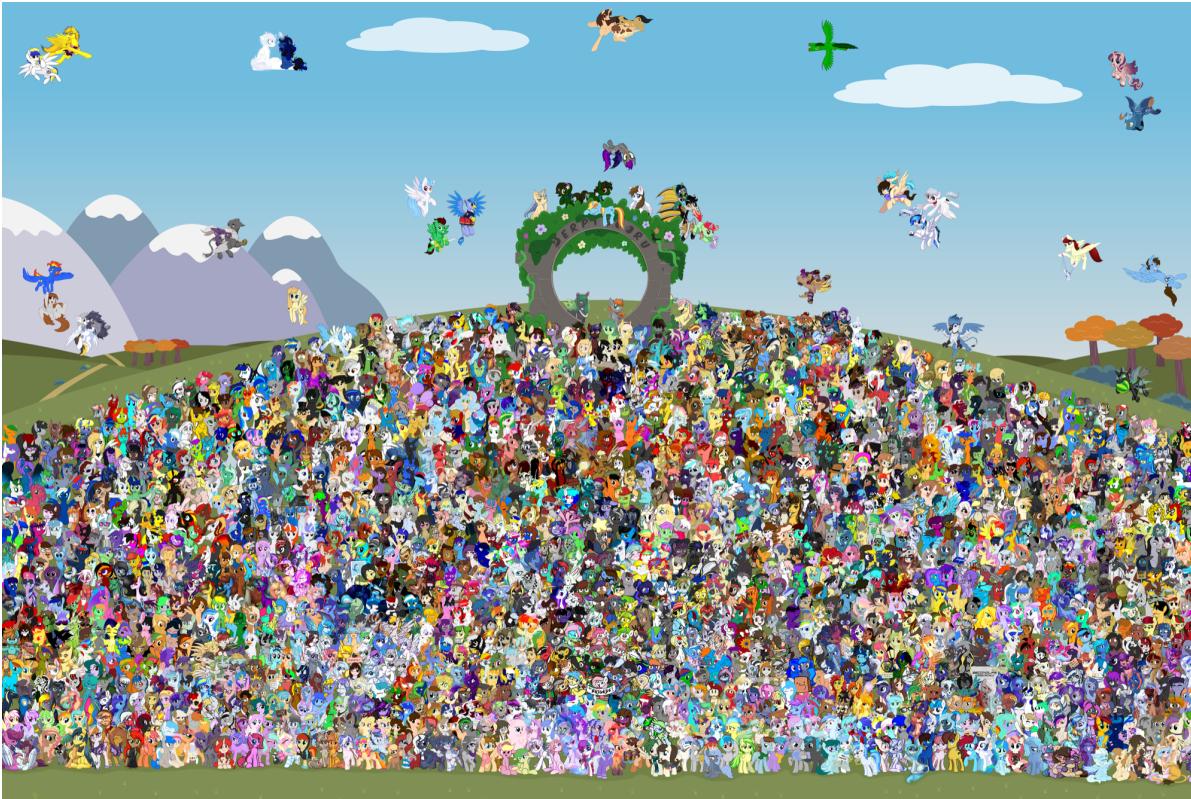
# Tags

**Most tagged image**

**2231725**

# Tags

## Most tagged image



# Tags

## Percentiles

Percentile	Count
99.9%	96
99%	58
90%	33
75%	23
50%	16

# Tags

## Percentiles

Percentile	Count
<b>99.9%</b>	96
<b>99%</b>	58
<b>90%</b>	33
<b>75%</b>	23
<b>50%</b>	16

- 2622 Image with over 100 tags
- 0,083% of all images

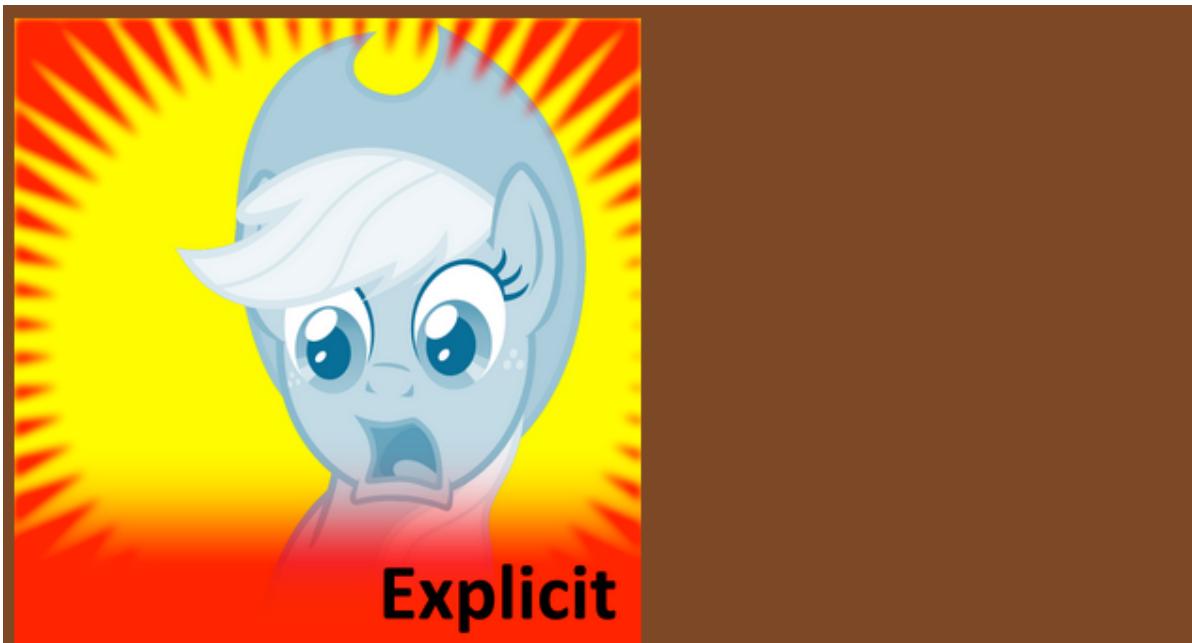
# Tag Edits

**14,351**



# Tag Edits

75,260



This image is tagged **explicit**, which is hidden by your current filter.

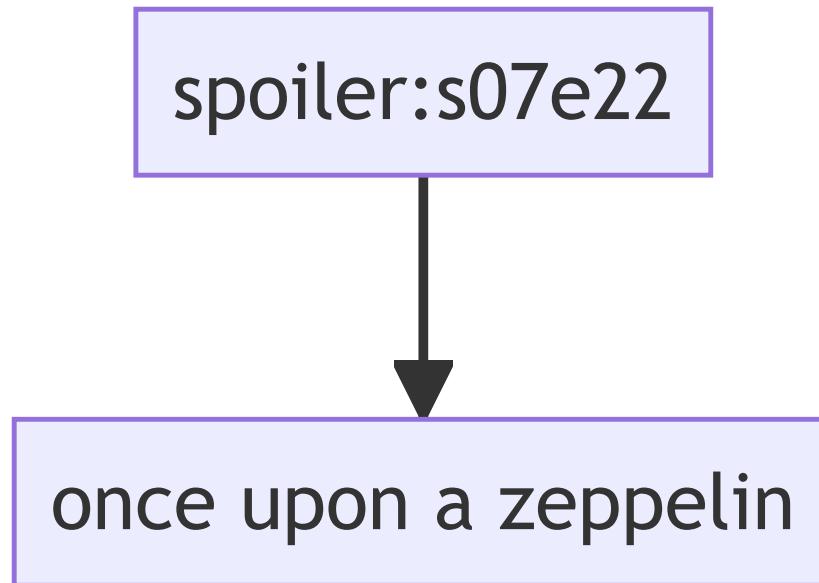
# Tag Edits

## But Why?

- Average: 11 edits per Image
- 99.91% of images have less than 100 edits
- Probably targeted attacks by bots

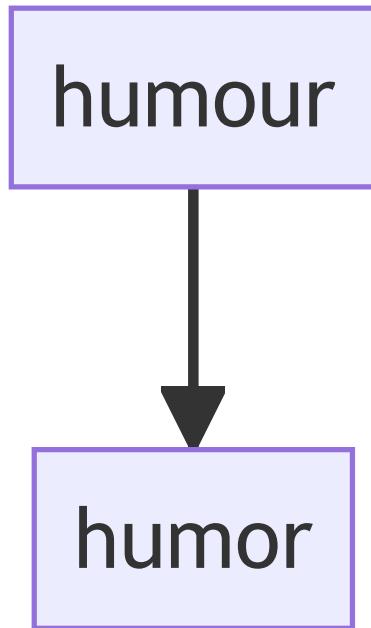
# Tag aliases

- Tags can basically rename each other



# Tag aliases

- Tags can basically rename each other



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- Tags can basically rename each other

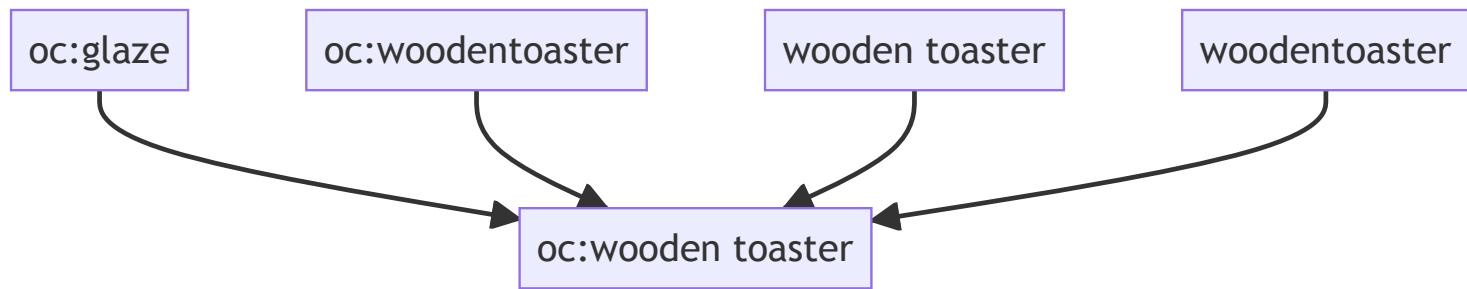
aperture science handheld portal device



portal gun

# Tag aliases

- Tags can basically rename each other



# Tag aliases

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# Tag aliases

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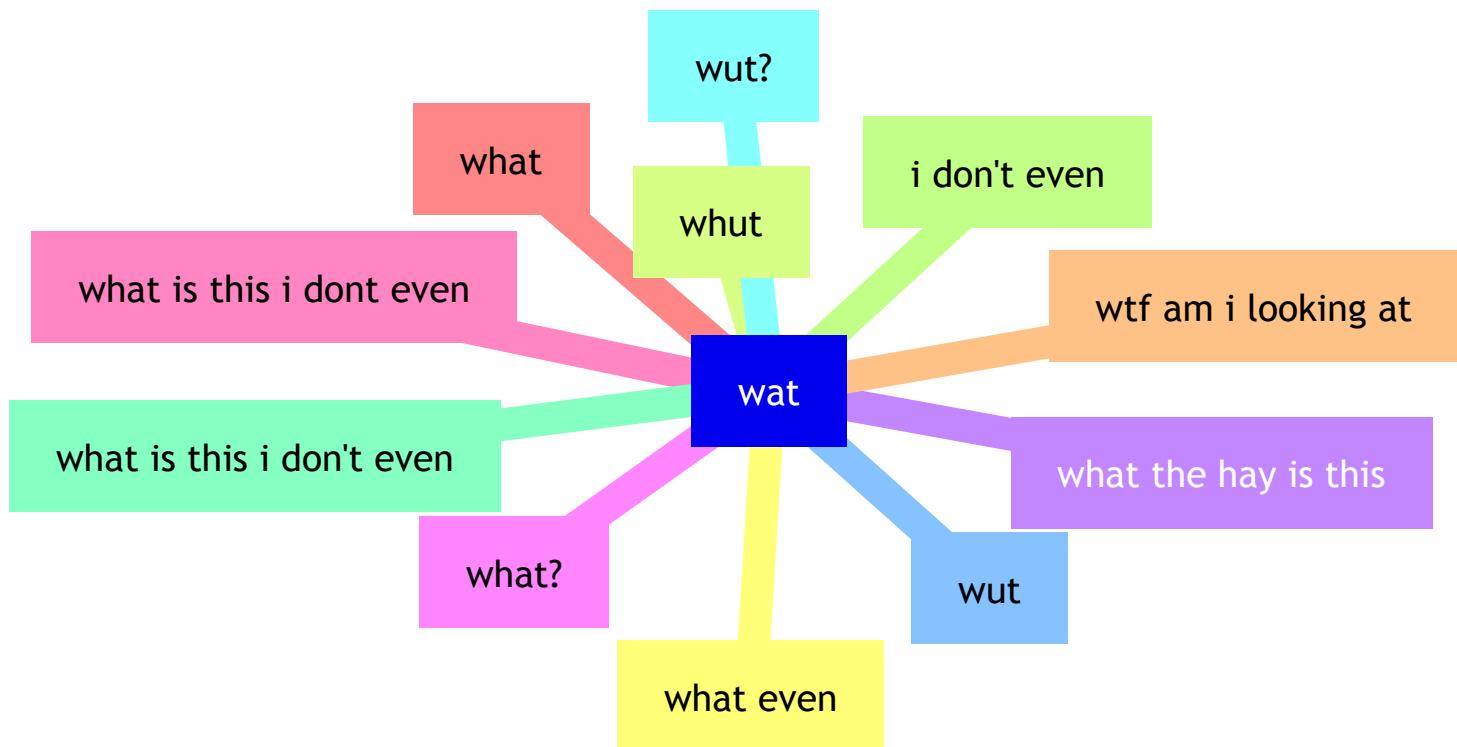
wait it's all ohio



always has been

# Tag aliases

- Tags can basically rename each other



# **Tag aliases**

**Most aliased tag**

# Tag aliases

## Most aliased tag

- champ



# **Tag aliases**

## **Most aliased tag**

- champ
- rascalbones

# **Tag aliases**

## **Most aliased tag**

- champ
- rascalbones
- trash-prince

# Tag aliases

## Most aliased tag

- champ
- rascalbones
- trash-prince
- renegade\_rascal
- rottenscoundrel
- roadkilloutcast
- roadkillreject
- regal-trash-prince
- royal-trash-prince
- vilebastard
- filthypony
- trashprince
- xroadkillx
- roadkillbones
- renegaderascal
- roadkilljack
- rottenroadkill
- fantasticbastard

# Tag aliases

<b>tag</b>	<b>count</b>
artist:champ	17
your character here	16
reference sheet	16
spread wings	14
artist:grissaecrim	13
flat colors	13
artist:loyaldis	12
artist:dvixie	11
wat	11
cel shading	10
the return of harmony	10
artist:cosmalumi	10
tongue out	9

# Tag aliases

tag	count
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<b>your character here</b>	16
reference sheet	16
spread wings	14
artist:grissaecrim	13
flat colors	13
artist:loyaldis	12
artist:dvixie	11
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# Thank you for listening

- telegram: @Chase\_22
- web: chasenet.neocities.org
- mastodon: @Chase@chaos.social

