

Data Analysis de uma Fanfiqueira:

Interpretação Gráfica de CSVs



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Five Things lydia-theda Said

Published: [Sun](#) 29 Aug 2021 12:20PM [EDT](#) Comments: [16](#)

Every month or so the OTW will be doing a Q&A with one of its volunteers about their experiences in the organization. The posts express each volunteer's personal views and do not necessarily reflect the views of the OTW or constitute OTW policy. Today's post is with lydia-theda, who volunteers as a Policy & Abuse staffer.

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A fan-created, fan-run, nonprofit, noncommercial archive for transformative fanworks, like fanfiction, fanart, fan videos, and podfic

more than **45,820** fandoms | **4,000,000** users | **8,112,000** works

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Tweets



If You Had This Time Again by dls

22 Mar 2019

Marvel Cinematic Universe

Creator Chose Not To Use Archive Warnings, Loki/Tony Stark, Tony Stark, Loki (Marvel), Steve Rogers, Bruce Banner, Thor (Marvel), Natasha Romanoff, Clint Barton, Jarvis (Iron Man movies), Pepper Potts, James "Rhodey" Rhodes, Jane Foster (Marvel), Darcy Lewis, James "Bucky" Barnes, Guardians of the Galaxy Team, T'Challa (Marvel), Shuri (Marvel), Thanos (Marvel), Stephen Strange, Alternate Universe – Canon Divergence, Alternate Universe – Time Travel, Time Travel Fix-It, Fix-It of Sorts, Civil War Team Iron Man, Comic Book Science, Canon–Typical Violence, Tony Stark–centric, Slow Burn, Canon Divergence – Post-Avengers (2012), Translation Available, Podfic Available

Tony Stark closed his eyes in a wrecked Siberian bunker and woke up on a demolished New York street. Four years earlier.

[Translated into Mandarin Chinese by Oxalis, Polish by Every_Moment_Matters, Russian by Isenbo, and Brazilian Portuguese by Thefoxandthewolf.]

[Text-to-speech podfic by saltyunicorn.]

Part **1** of Would You Do It All the Same?

Language: English Words: 268,000 Chapters: 100/100 Collections: 78 Comments: 24745 Kudos: 31548 Bookmarks: 7711 Hits: 1073218



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“tags.csv”

```
tags = pd.read_csv('/content/data/tags-20210226.csv')
```

```
tags
```



	id	type	name	canonical	cached_count	merger_id
0	1	Media	TV Shows	True	910	NaN
1	2	Media	Movies	True	1164	NaN
2	3	Media	Books & Literature	True	134	NaN
3	4	Media	Cartoons & Comics & Graphic Novels	True	166	NaN
4	5	Media	Anime & Manga	True	501	NaN
...
14467133	55395603	Freeform	Redacted	False	0	NaN
14467134	55395606	Freeform	Redacted	False	0	NaN
14467135	55395609	Freeform	Redacted	False	0	NaN
14467136	55395612	Freeform	Redacted	False	0	NaN
14467137	55395615	Freeform	Redacted	False	0	NaN

14467138 rows × 6 columns

Parâmetros - “tags.csv”

- **Id**
- **Tipo (type)**
- **Nome (name)**
- *Canonical*
- **Contador (cached_count)**
- *Merged_id*

“works.csv”

```
works = pd.read_csv('/content/data/works-20210226.csv')
```

```
works
```



	creation_date	language	restricted	complete	word_count	tags	Unnamed: 6
--	---------------	----------	------------	----------	------------	------	------------

0	2021-02-26	en	False	True	388.0	10+414093+1001939+4577144+1499536+110+4682892+...	NaN
---	------------	----	-------	------	-------	---	-----

1	2021-02-26	en	False	True	1638.0	10+20350917+34816907+23666027+23269305+2326930...	NaN
---	------------	----	-------	------	--------	---	-----

2	2021-02-26	en	False	True	1502.0	10+10613413+9780526+3763877+3741104+7657229+30...	NaN
---	------------	----	-------	------	--------	---	-----

3	2021-02-26	en	False	True	100.0	10+15322+54862755+20595867+32994286+663+471751...	NaN
---	------------	----	-------	------	-------	---	-----

4	2021-02-26	en	False	True	994.0	11+721553+54604+1439500+3938423+53483274+54862...	NaN
---	------------	----	-------	------	-------	---	-----

...
-----	-----	-----	-----	-----	-----	-----	-----

7269688	2008-09-13	en	True	True	705.0	78+77+84+101+104+105+106+23+13+16+70+933	NaN
---------	------------	----	------	------	-------	--	-----

7269689	2008-09-13	en	False	True	1392.0	78+77+84+107+23+10+16+70+933+616	NaN
---------	------------	----	-------	------	--------	----------------------------------	-----

7269690	2008-09-13	en	False	True	1755.0	77+78+69+108+109+62+110+23+9+111+16+70+10128+4858	NaN
---------	------------	----	-------	------	--------	---	-----

7269691	2008-09-13	en	False	True	1338.0	112+113+13+114+16+115+101+117+118+119+120+116+...	NaN
---------	------------	----	-------	------	--------	---	-----

7269692	2008-09-13	en	False	True	1836.0	123+124+125+127+128+13+129+14+130+131+132+133+...	NaN
---------	------------	----	-------	------	--------	---	-----

7269693 rows × 7 columns

Parâmetros - “works.csv”

- Data de Criação (`creation date`)
- Idioma (`language`)
- *Restricted*
- *Complete*
- **Contador de palavras (`word_count`)**
- **Tags**

Fanfic Padrão

Parâmetros que *muito provavelmente* serão encontrados pesquisando por fanfics:

- Idioma (language);
- Data (date);
- Contador de palavras (word_count);
- Tags mais comuns.

Idioma

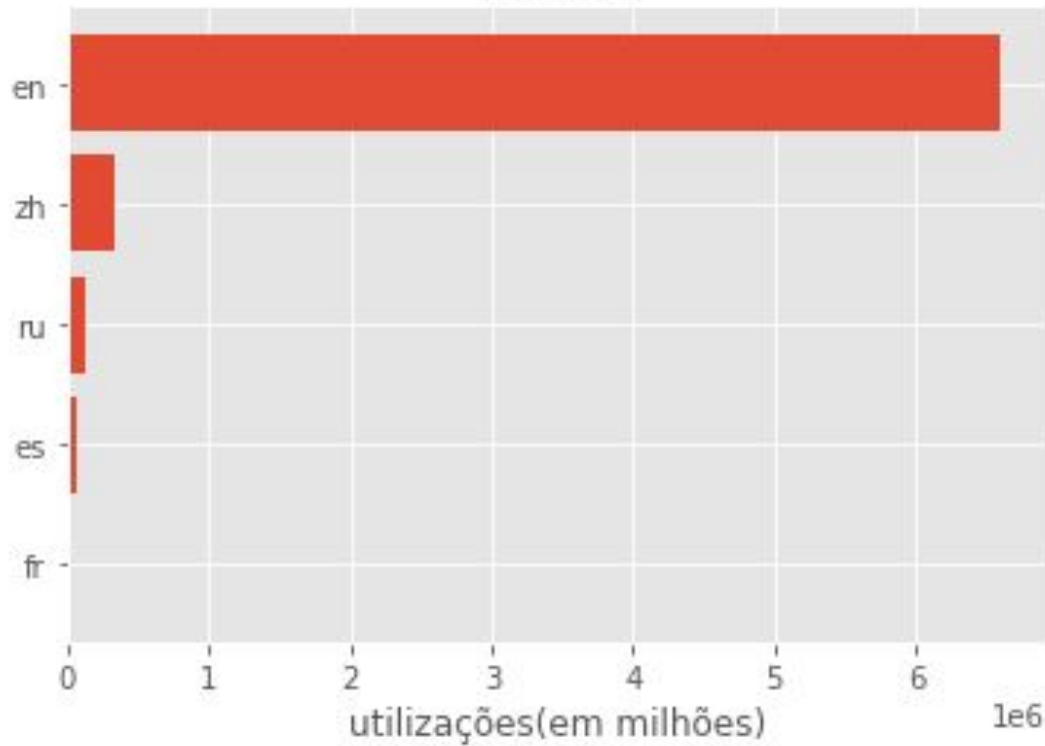
Idioma mais comum: inglês (en)

```
▶ lang = []  
   ocorrencias = []  
  
   teste2 = works.language.value_counts()  
   for key, value in teste2.items():  
       lang.append(key)  
       ocorrencias.append(value)  
  
   languages = lang[0:5]  
   l_frequency = ocorrencias[0:5]  
  
   print(lang[0:10])
```

```
↳ ['en', 'zh', 'ru', 'es', 'fr', 'it', 'id', 'ptBR', 'de', 'pl']
```

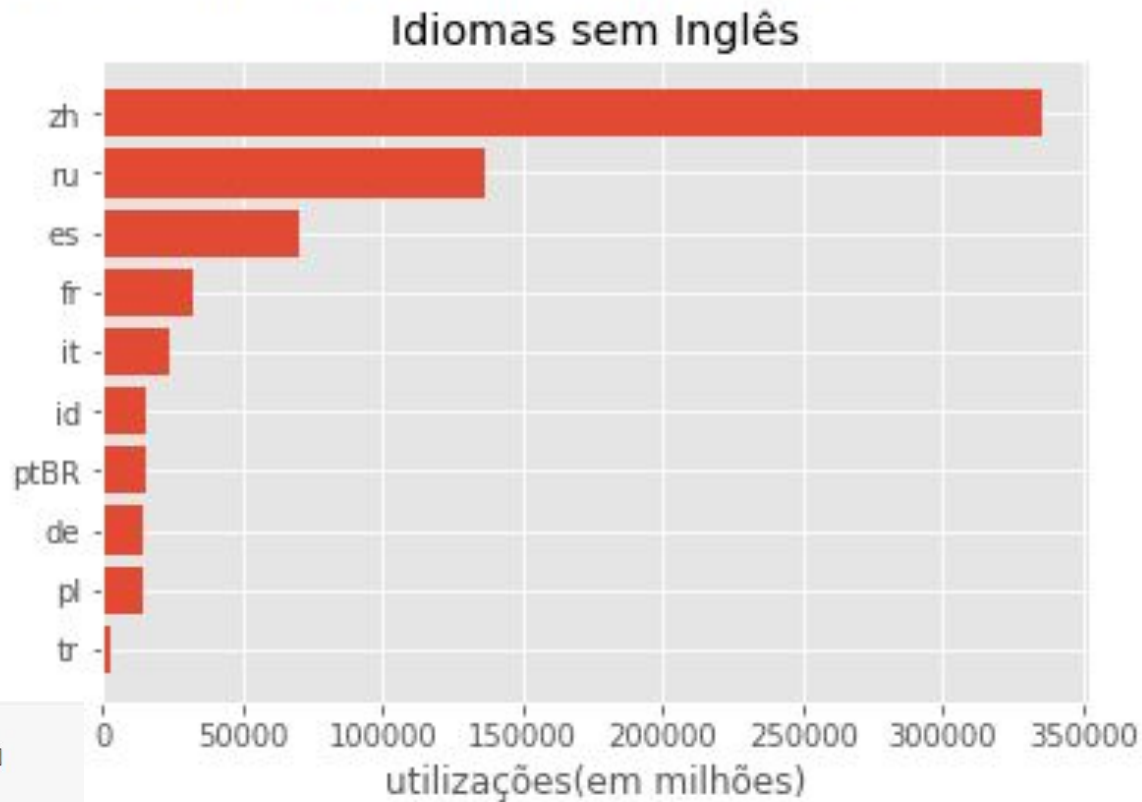
```
[32] idiomas = works['language']  
      idiomas.unique()  
  
      array(['en', 'zh', 'de', 'fr', 'es', 'ptBR', 'id', 'ru', 'yue', 'bos',  
            'pl', 'ptPT', 'fil', 'vi', 'it', 'ms', 'ja', 'nl', 'hu', 'hak',  
            'be', 'ro', 'cs', 'et', 'ko', 'th', 'wu', 'fi', 'sv', 'el', 'afr',  
            'sq', 'qtp', 'fa', 'hr', 'bg', 'ca', 'uk', 'sco', 'lv', 'ga', 'tr',  
            'ar', 'hy', 'fur', 'lt', 'eu', 'so', 'nan', 'mk', 'si', 'he', 'da',  
            'sk', 'bn', 'arc', 'ia', 'slv', 'chn', 'br', 'no', 'hi', 'eo',  
            'mnc', 'cy', 'hau', 'gl', 'ta', 'qkz', 'bod', 'mr', 'tlh', 'la',  
            'zu', 'tqx', 'qya', 'gem', 'sjn', 'fcs', 'kat', 'sw', 'sn', 'is',  
            'pa', 'gd', 'jv'], dtype=object)
```

Idiomas



```
#plotting
languages.reverse()
l_frequency.reverse()

plt.style.use('ggplot')
plt.barh(languages,l_frequency)
plt.title('Idiomas')
plt.xlabel('utilizações(em milhões)')
```



```
lang_sample = lang[1:11]
sample_freq = ocorrencias[1:11]

lang_sample.reverse()
sample_freq.reverse()

plt.style.use('ggplot')
plt.barh(lang_sample,sample_freq)
plt.title('Idiomas sem Inglês')
plt.xlabel('utilizações(em milhões)')
```


Date*

Ano mais provável: 2020

Segundo mais provável: 2019

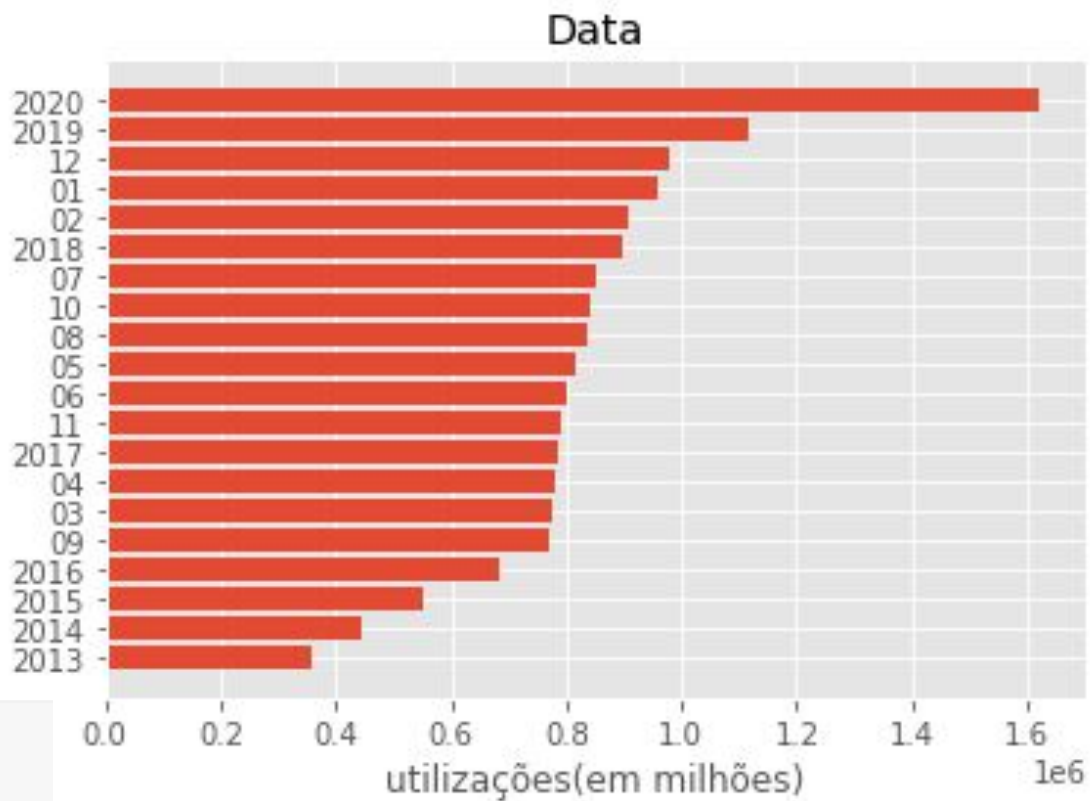
```
#DATE
dates = []
frequency = []
date_counter = Counter()

for date in works['creation date']:
    date_counter.update(str(date).split('-'))

for data in date_counter.most_common(20): #selects the 20 most used tags in all works
    dates.append(data[0])
    frequency.append(data[1])

print(dates)
print(frequency)
```

```
['2020', '2019', '12', '01', '02', '2018', '07', '10', '08', '05', '06', '11', '2017', '04', '03', '09', '2016', '2015', '2014', '2013']
[1622090, 1114625, 977354, 960405, 907583, 896141, 854265, 843660, 834611, 816030, 798996, 792999, 783107, 781127, 773737, 772313, 685178, 552115, 444421, 359948]
```



```
#plotting
dates.reverse()
frequency.reverse()

plt.style.use('ggplot')
plt.barh(dates,frequency)
plt.title('Data')
plt.xlabel('utilizações(em milhões)')
```

Word Count

Valor final adotado: 7214 palavras



```
print('média:',word_count.mean(),' ','mediana:',word_count.median())
```

```
média: 7213.8505821525505 mediana: 2130.0
```

Tags

Diferentes parâmetros:

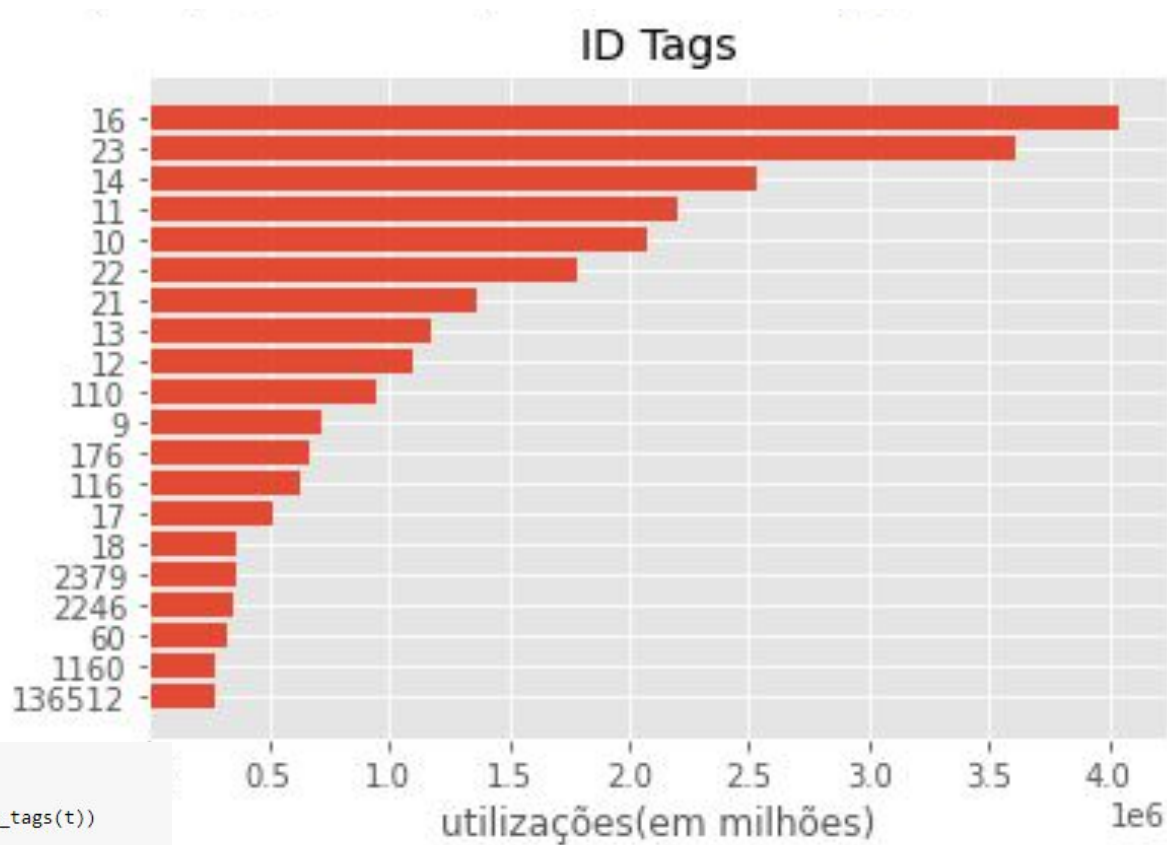
- Mídia (*media*);
- **Classificação indicativa** (*rating*);
- **Aviso de Gatilhos** (*ArchiveWarnings*);
- Categoria;
- Personagem;
- *Fandom*
- Relacionamento
- *Freeform*
- *Unsorted Tag*

```
tags['type'].unique()
```

```
array(['Media', 'Rating', 'ArchiveWarning', 'Category', 'Character',  
      'Fandom', 'Relationship', 'Freeform', 'UnsortedTag'], dtype=object)
```

```
tags.type.value_counts()
```

Freeform	9244331
Relationship	2048295
Character	1509000
UnsortedTag	1460615
Fandom	204858
Category	15
Media	12
ArchiveWarning	6
Rating	6
Name: type, dtype: int64	



```
#plotting
apperances.reverse()
tag_names = list(change_tags(t))
t.reverse()

plt.style.use('ggplot')
plt.barh(t,apperances)
plt.title('ID Tags')
plt.xlabel('utilizações(em milhões)')
```


Fanfic Padrão

- Idioma: **inglês**
- Data de Publicação: **2020**
- Número de Palavras: **7214**
- Tags: **No Archive Warnings, M/M, Explicit**