

```
In [1]: import requests
import time
import pandas as pd
```

```
In [2]: url = 'https://www.reddit.com/r/funny/.json'
```

```
In [3]: headers = {'User-agent': 'As Lama Oui 0.1'}

res = requests.get(url, headers=headers)

res.status_code

the_json = res.json()

the_json
```

[illegible]

```
In [4]: sorted(the_json.keys())
```

```
Out[4]: ['data', 'kind']
```

```
In [5]: the_json['kind']
```

```
Out[5]: 'Listing'
```

```
In [6]: sorted(the_json['data'].keys())
```

```
Out[6]: ['after', 'before', 'children', 'dist', 'modhash']
```

'children' is where posts are

```
In [7]: len(the_json['data']['children'])
```

```
Out[7]: 25
```

```
In [8]: the_json['data']['children'][0]
```

```
Out[8]: {'kind': 't3',
  'data': {'approved_at_utc': None,
    'subreddit': 'funny',
    'selftext': '',
    'author_fullname': 't2_mz3ih',
    'saved': False,
    'mod_reason_title': None,
    'gilded': 0,
    'clicked': False,
    'title': 'Gang Violence Going Down',
    'link_flair_richtext': [],
    'subreddit_name_prefixed': 'r/funny',
    'hidden': False,
    'pwls': 6,
    'link_flair_css_class': None,
    'downs': 0,
    'thumbnail_height': 140,
    'hide_score': False,
    'name': 't3_b8l0q4',
    'quarantine': False,
```

```
In [9]: pd.DataFrame(the_json['data']['children'])['data'][0].keys()
```

```
Out[9]: dict_keys(['approved_at_utc', 'subreddit', 'selftext', 'author_fullname',
  'saved', 'mod_reason_title', 'gilded', 'clicked', 'title', 'link_flair_richtext', 'subreddit_name_prefixed', 'hidden', 'pwls', 'link_flair_css_class', 'downs', 'thumbnail_height', 'hide_score', 'name', 'quarantine', 'link_flair_text_color', 'author_flair_background_color', 'subreddit_type', 'ups', 'domain', 'media_embed', 'thumbnail_width', 'author_flair_template_id', 'is_original_content', 'user_reports', 'secure_media', 'is_reddit_media_domain', 'is_meta', 'category', 'secure_media_embed', 'link_flair_text', 'can_mod_post', 'score', 'approved_by', 'thumbnail', 'edited', 'author_flair_css_class', 'author_flair_richtext', 'gildings', 'post_hint', 'content_categories', 'is_self', 'mod_note', 'created', 'link_flair_type', 'wls', 'banned_by', 'author_flair_type', 'contest_mode', 'selftext_html', 'likes', 'suggested_sort', 'banned_at_utc', 'view_count', 'archived', 'no_follow', 'is_crosspostable', 'pinned', 'over_18', 'preview', 'media_only', 'can_gild', 'spoiler', 'locked', 'author_flair_text', 'visited', 'num_reports', 'distinguished', 'subreddit_id', 'mod_reason_by', 'removal_reason', 'link_flair_background_color', 'id', 'is_robot_indexable', 'report_reasons', 'author', 'num_crossposts', 'num_comments', 'send_replies', 'whitelist_status', 'mod_reports', 'author_patreon_flair', 'author_flair_text_color', 'permalink', 'parent_whitelist_status', 'stickied', 'url', 'subreddit_subscribers', 'created_utc', 'media', 'is_video'])
```

```
In [10]: features = ['subreddit', 'selftext', 'author_fullname', 'title', 'subreddit
```

the four pieces of content we need:

1. The title of the thread
2. the subreddit that the thread corresponds to
3. the length of time it has been up on Reddit
4. the number of comments on the thread

```
In [11]: #the id of the last post in this list  
the_json['data']['after']
```

```
Out[11]: 't3_b8jyxy'
```

```
In [12]: [post['data']['name'] for post in the_json['data']['children']]
```

```
...
```

```
In [13]: url = 'https://www.reddit.com/r/funny/.json?AFTER=t3_b80433'
```

```
In [14]: param = {'after': 't3_b8jyxy'}
```

```
In [15]: requests.get(url, params=param, headers=headers)
```

```
Out[15]: <Response [200]>
```

```
In [16]: features = ['subreddit', 'selftext', 'author_fullname', 'title',  
                    'content_categories', 'name', 'is_self', 'suggested_sort',  
                    'subreddit_id', 'category', 'id']
```

```

In [17]: posts = []
after = None
for i in range(100):
    print(i)
    if after == None:
        params = {}
    else:
        params = {'after':after}
    url = 'https://www.reddit.com/r/funny/.json'
    res = requests.get(url, params=params, headers=headers)
    if res.status_code == 200:
        the_json = res.json()
        for j in range(len(the_json['data']['children'])):
            posts.append({'subreddit': the_json['data']['children'][j]['data']['subreddit'],
                          'selftext': the_json['data']['children'][j]['data']['selftext'],
                          'author_fullname': the_json['data']['children'][j]['data']['author_fullname'],
                          'title': the_json['data']['children'][j]['data']['title'],
                          'content_categories': the_json['data']['children'][j]['data']['content_categories'],
                          'name': the_json['data']['children'][j]['data']['name'],
                          'is_self': the_json['data']['children'][j]['data']['is_self'],
                          'suggested_sort': the_json['data']['children'][j]['data']['suggested_sort'],
                          'subreddit_id': the_json['data']['children'][j]['data']['subreddit_id'],
                          'category': the_json['data']['children'][j]['data']['category'],
                          'id': the_json['data']['children'][j]['data']['id']}
            )
        after = the_json['data']['after'] #check inside or outside
    else:
        print(res.status_code)
        break
    time.sleep(1)
len(posts)
df = pd.DataFrame(posts)

```

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79

```
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99
```

```
In [19]: len(posts)
```

```
Out[19]: 2477
```

```
In [20]: funny = pd.DataFrame(posts)
```

```
In [21]: funny = funny.to_csv('funny_subreddit.csv')
```

```
In [22]: funny
```

```
In [ ]:
```