```
In [1]:
         import requests
         import pandas as pd
         from bs4 import BeautifulSoup
In [3]:
         url = 'https://github.com/trending'
         response = requests.get(url)
         response.status code
Out[3]: 200
In [4]:
         page content = response.text
         page content[:100]
        '\n\n<!DOCTYPE html>\n<html lang="en" data-color-mode="auto" data-light-theme="light" da
        ta-dark-theme="d'
In [6]:
         with open('trending.html','w',encoding='utf-8') as f:
             f.write(page_content)
```

# **Beautiful Soup**

```
In [5]: data = BeautifulSoup(page_content,'html.parser')
```

#### For username and repository name

```
In [16]: h1 = data.find_all('h1',class_='h3 lh-condensed')
In [25]: names = []
for i in h1:
    name = i.find('a').text
# print(sp.strip())
    names.append(name.strip())
# print(name)
print(names)
```

btrace', 'sindresorhus /\n\n awesome', 'google /\n\n
sClub /\n\n data-engineering-zoomcamp', 'PaddlePaddle /\n\n ['bytedance /\n\n g4jscanner', 'DataTalksClub /\n\n PaddleDetection', 'papers-we-love /\n\n papers-we-love', 'google /\n\n pythonfire', 'donnemartin /\n\n system-design-primer', 'youngyangyang04 /\n\n de-master', 'ja-netfilter /\n\n ja-netfilter', 'angular /\n\n angul angular', 'Micro softLearning /\n\n AZ-204-DevelopingSolutionsforMicrosoftAzure', 'dfir-iris /\n\n iris-web', 'CleverRaven /\n\n Cataclysm-DDA', 'ZLMediaKit /\n\n ZLMediaKit', element-plus', 'Mas0nShi /\n\n typoraCracker', 'gatsbyjs / 'element-plus /\n\n gatsby', 'google /\n\n gvisor', 'facebook /\n\n react-native', 'hibi ken /\n\n asynq', 'alibaba /\n\n formily', 'skyline-emu /\n\n skyline', vnpy'] 'vnpy /\n\n

### For language

#### For stars

```
In [58]:
    rating = data.find_all('div',class_='f6 color-fg-muted mt-2')
    stars = []
    for i in rating:
        s = i.find_all('a',class_='Link--muted d-inline-block mr-3')
        star = s[0].text
        stars.append(star.strip())
    print(stars)

['654', '182,542', '561', '623', '6,029', '51,388', '21,467', '156,839', '20,676', '2,52
4', '78,583', '1,245', '151', '6,184', '5,377', '13,316', '645', '52,062', '12,233', '10
        0,218', '2,237', '6,878', '2,531', '17,199']
```

#### For repos

```
In [60]:
    repo_counts = data.find_all('div',class_='f6 color-fg-muted mt-2')
    repos = []
    for i in repo_counts:
        r = i.find_all('a',class_='Link--muted d-inline-block mr-3')
        repo = r[1].text
        repos.append(repo.strip())
    print(repos)

['86', '22,456', '45', '95', '1,512', '4,340', '1,255', '28,946', '5,291', '640', '20,63 2', '967', '11', '3,027', '1,492', '2,480', '230', '10,073', '1,010', '21,593', '175', '879', '475', '6,919']
```

## Split name data to get username and repos name seperately

```
In [71]:
    username = []
    repo_name = []
    for i in names:
        x = i.split('/')
        username.append(x[0])
        repo_name.append(x[1].strip())
    print(username)
    print(repo_name)
```

```
['bytedance ', 'sindresorhus ', 'google ', 'DataTalksClub ', 'PaddlePaddle ', 'papers-we -love ', 'google ', 'donnemartin ', 'youngyangyang04 ', 'ja-netfilter ', 'angular ', 'Mi crosoftLearning ', 'dfir-iris ', 'CleverRaven ', 'ZLMediaKit ', 'element-plus ', 'Mas0nS hi ', 'gatsbyjs ', 'google ', 'facebook ', 'hibiken ', 'alibaba ', 'skyline-emu ', 'vnpy ']
['btrace', 'awesome', 'log4jscanner', 'data-engineering-zoomcamp', 'PaddleDetection', 'p apers-we-love', 'python-fire', 'system-design-primer', 'leetcode-master', 'ja-netfilte r', 'angular', 'AZ-204-DevelopingSolutionsforMicrosoftAzure', 'iris-web', 'Cataclysm-DD A', 'ZLMediaKit', 'element-plus', 'typoraCracker', 'gatsby', 'gvisor', 'react-native', 'asynq', 'formily', 'skyline', 'vnpy']
```

 $\lceil \cdot \lozenge \lozenge \rceil$  btrace(AKA RheaTrace) is a high performance Android trace tool which is based on Systrace, it support to define custom events automatically during building apk and using bhook to provider more native events like IO.', ' Awesome lists about all kinds of in teresting topics', None, 'Code for Data Engineer Zoomcamp course', 'Object Detection too lkit based on PaddlePaddle. It supports object detection, instance segmentation, multipl e object tracking and real-time multi-person keypoint detection.', 'Papers from the comp uter science community to read and discuss.', 'Python Fire is a library for automaticall y generating command line interfaces (CLIs) from absolutely any Python object.', 'Learn how to design large-scale systems. Prep for the system design interview. Includes Anki f lashcards.','《代码随想录》LeetCode 刷题攻略: 200道经典题目刷题顺序,共60w字的详细图解,视频 难点剖析,50余张思维导图,支持C++,Java,Python,Go,JavaScript等多语言版本,从此算法学习不再 迷茫! 🗘 🗘 来看看,你会发现相见恨晚! 🕰 ', 'A javaagent framework', 'The modern web develop er's platform', 'AZ-204: Developing solutions for Microsoft Azure', 'Incident Response c ollaborative platform', 'Cataclysm - Dark Days Ahead. A turn-based survival game set in a post-apocalyptic world.', 'WebRTC/RTSP/RTMP/HTTP/HLS/HTTP-FLV/WebSocket-FLV/HTTP-TS/HT TP-fMP4/WebSocket-TS/WebSocket-fMP4/GB28181 server and client framework based on C++11', '🥍 A Vue.js 3 UI Library made by Element team', 'A extract & decryption and pack & enc ryption tools for typora.', 'Build blazing fast, modern apps and websites with React', 'Application Kernel for Containers', 'A framework for building native applications using React', 'Asyng: simple, reliable, and efficient distributed task queue in Go', 'Alibaba Group Unified Form Solution -- Support React/ReactNative/Vue2/Vue3', 'Run Nintendo Switc h homebrew & games on your Android device!', '基于Python的开源量化交易平台开发框架']

#### All basic info is extracted

# Now creating dataframe using pandas

```
In []:
In [130...
```

```
trend_repo = pd.DataFrame({
    'user_name': username,
    'repo_name': repo_name,
    'repo_desc': repo_detail,
    'repo_stars': stars,
    'repo_count': repos
})
```

In [131...

trend\_repo

repo_stars	repo_desc	repo_name	user_name	Out[131
654	(a) (b) btrace(AKA RheaTrace) is a high performance	btrace	bytedance	0
182,542	Awesome lists about all kinds of interesting	awesome	sindresorhus	1
561	None	log4jscanner	google	2
623	Code for Data Engineer Zoomcamp course	data-engineering-zoomcamp	DataTalksClub	3
6,029	Object Detection toolkit based on PaddlePaddle	PaddleDetection	PaddlePaddle	4
51,388	Papers from the computer science community to	papers-we-love	papers-we-love	5
21,467	Python Fire is a library for automatically gen	python-fire	google	6
156,839	Learn how to design large-scale systems. Prep	system-design-primer	donnemartin	7
20,676	《代码随想录》LeetCode 刷题攻略: 200道经典题目刷题顺序,共60w字的 详细图解,视	leetcode-master	youngyangyang04	8
2,524	A javaagent framework	ja-netfilter	ja-netfilter	9
78,583	The modern web developer's platform	angular	angular	10
1,245	AZ-204: Developing solutions for Microsoft Azure	AZ-204- Developing Solutions for Microsoft Azure	MicrosoftLearning	11
151	Incident Response collaborative platform	iris-web	dfir-iris	12
6,184	Cataclysm - Dark Days Ahead. A turn- based surv	Cataclysm-DDA	CleverRaven	13
5,377	WebRTC/RTSP/RTMP/HTTP/HLS/HTTP- FLV/WebSocket-F	ZLMediaKit	ZLMediaKit	14
13,316	A Vue.js 3 UI Library made by Element team	element-plus	element-plus	15
645	A extract & decryption and pack & encryption t	typoraCracker	Mas0nShi	16
52,062	Build blazing fast, modern apps and websites w	gatsby	gatsbyjs	17

repo_stars	repo_desc	repo_name	user_name	
12,233	Application Kernel for Containers	gvisor	google	18
100,218	A framework for building native applications u	react-native	facebook	19
2,237	Asynq: simple, reliable, and efficient distrib	asynq	hibiken	20
6,878	Alibaba Group Unified Form Solution - - Support	formily	alibaba	21
2,531	Run Nintendo Switch homebrew & games on your A	skyline	skyline-emu	22
17,199	基于Python的开源量化交易平台开发 框架	vnpy	vnpy	23
<b>&gt;</b>				4

# Converting data into csv file

```
In [134...
trend_repo.to_csv('github_trending_repo.csv',index=False)
In []:
```