

백엔드 & 영화 데이터


20221123 / 백범성

1. CORS 서버 구축


```
affctiv@affctiv-MS-7D42:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
4bbc0c5d2f70	cors	"/bin/sh -c 'node se..."	3 days ago	Up 3 days
85ec18ab0639	emo_server_docker_nginx	"/docker-entrypoint..."	6 days ago	Up 2 hours
9eb2f9f6eb95	emo_server_docker_flask_app	"bash -c 'cd /flask/..."	6 days ago	Up 2 hours

2. 영화 데이터 크롤링

 감성인공지능연구실


a ▾

 ▾

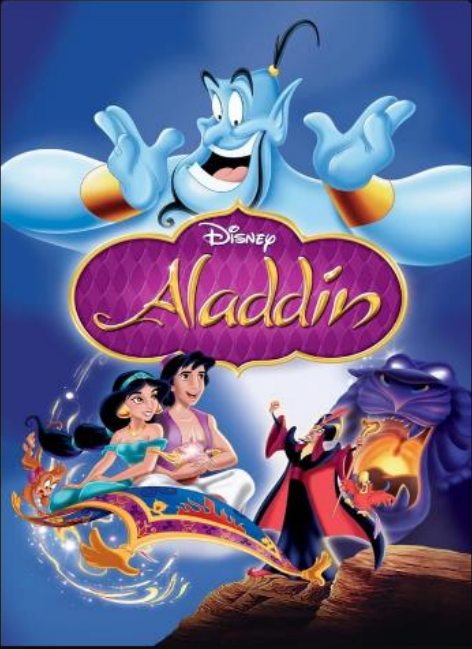
연구원호출 ▾

튜토리얼


실험 종료




About Time
Romance/ Comedy/ Drama/ Fantasy



Aladdin
Comedy/ Adventure/ Family

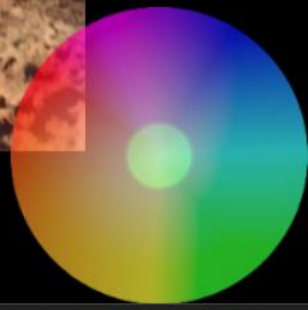


Ant-Man
Comedy/ Action/ Adventure



Aquaman
Fantasy/ Action/ Adventure

Scoreboard
<https://cs-ds1.inha.ac.kr/public/>



3. 영화 데이터

id	title	token	timeStamp	category
54	The Martian	90cqM3_Bfvs	27, 45, 55, 86, 108, 146	Sci-Fi/ Drama/ Adventure
55	The Northman	oMSdFM12hOw	46, 60, 85, 93, 128	Thriller
56	The Notebook	AF4IzD6aVU4	8, 26, 32, 74, 88	Drama/ Romance
57	The Old Man	ZgyQgOc72w	22, 29, 62, 77, 107	Action/ Drama/ Thriller
58	The Princess	u67rLC_yfEc	11, 22, 28, 52, 69, 85	Thriller
59	The Sea Beast	l6n3KNwwIg8	41, 51, 70, 86, 107, 118, 140	Animation/ Adventure/ Comedy
60	The Terminal List	PurlC0MLgKs	22, 30, 93, 108	Action/ Drama/ Thriller
61	The Truman Show	5uu1ys5xssI	22, 36, 55, 64, 84, 90	Comedy/ Drama
62	The Unbearable Weight ...	x2YHPZMj8r4	30, 60, 83, 132, 145	Crime
63	thor love and thunder	Dlfp3K11C_o	19, 34, 45, 120	Action/ Adventure/ Comedy
64	Ticket to Paradise	faoJin7FfpY	20, 40, 94, 102, 125, 150	Comedy/ Romance
65	Top Gun Maverick	Mrj9XACVJ8U	17, 36, 48, 60, 100, 125	Action/ Drama
66	Up	ORFWdXl_zJ4	24, 45, 60, 74, 123, 138	Drama/ Animation/ Adventure/ Comedy
67	X	MMB3EO0NMbI	76, 90, 106, 120	Horror
68	극한직업	xM1CIQd_X4c	27, 39, 48, 59, 95	Action-Comedy/ Action/ Comedy/ Crime
* NULL	NULL	NULL	NULL	NULL

A	B	C	D	E	F	G	H
30	Mad Max: Fury Road	_tuJVv-tHdc	16, 38, 55, 70, 87, 115, 133	Sci-Fi/ Action/ Adventure			
31	Midsommar	fgsVw-gemRg	10, 31, 60, 90, 118, 140	Mystery/ Horror/ Drama/ Thriller			
32	Minions	kfia-6BdA_w	17, 39, 57, 73, 100, 127, 140	Animation/ Adventure/ Comedy			
33	Minions: The Rise of Gru	YKvx-igUpYc	7, 20, 38, 62, 73, 93, 120, 135	Animation/ Adventure/ Comedy			
34	Mission: Impossible - Dead Reckoning Part One	F40MAXyXaac	20, 43, 72, 93, 100	Action/ Thriller/ Adventure			
35	Moana	qCjVVBsWZ0c	35, 60, 81, 102, 121, 131	Animation/ Adventure/ Comedy			
36	Ms. Marvel	eG9xLPHIDcl	22, 41, 60, 94	Action/ Adventure/ Comedy			
37	Nope	ln8fuzj3gck	25, 50, 70, 94, 115	Horror			
38	Notting Hill	gPhXjrDANGk	22, 50, 72, 100, 122, 138	Romance/ Comedy/ Drama			
39	Obi-Wan Kenobi	rRRi4zR-3v0	31, 60, 80	Action/ Adventure/ Sci-Fi			
40	Old	Pw38yorbYe4	40, 55, 90, 110, 118, 133, 152	Mystery/ Horror/ Drama			
41	Orphan	gbf2-hlfFpo	54, 79, 116	Mystery/ Horror/ Thriller			
42	Shutter Island	plzKw4vconw	34, 65, 82, 101, 120	Mystery/ Thriller			
43	Sing 2	AnFQUbCxvC0	21, 40, 50, 71, 90, 100, 113	Animation/ Adventure/ Comedy			

```

movieTime = [] ## 영화별 타임 스탬프 모으기
for movieN in range(68): ## 68개 영화
    movieTimeTemp = []
    print(str(movieN) + "번째 영화")
    for i in range(len(file_list)): ## 엑셀파일 5개
        timeStr = data[i]['timestamp ']

        if isinstance(timeStr[movieN], str):
            print(str(i) + "/" + timeStr[movieN])
            timeFlo = list(map(float, timeStr[movieN].split(',')))
            movieTimeTemp.extend(timeFlo)
        else:
            print(str(i) + "/" + str(timeStr[movieN]))
            timeFlo = timeStr[movieN]
            movieTimeTemp.append(timeFlo)

    movieTime.append(movieTimeTemp)

```

Output exceeds the [size limit](#). Open the full output data [in a text editor](#)

```

0번째 영화
0/ 11, 91
1/ 7, 17, 33, 49, 57, 90, 110, 120, 129, 134
2/ 14,50,68
3/ 35, 75,110, 125
4/ 11,36,48,57,123
5/ 92, 102, 144
6/ 11, 25, 55, 67, 90, 100, 122, 128, 144
7/ 7, 26, 56, 70, 88, 132
1번째 영화
0/ 46, 110
1/ 31, 43, 55, 64, 89, 110
2/ 47, 107
3/ 19, 61, 95, 115
4/ 25,47,55,62,85,110
5/ 48, 62, 110
6/ 12, 45, 61, 80, 97, 110, 116, 126
7/ 20, 55, 88, 88, 108, 122
2번째 영화

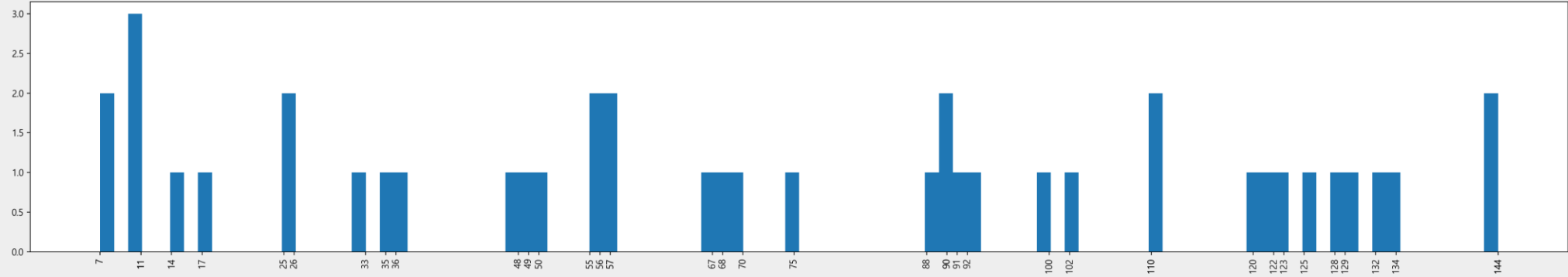
```

```

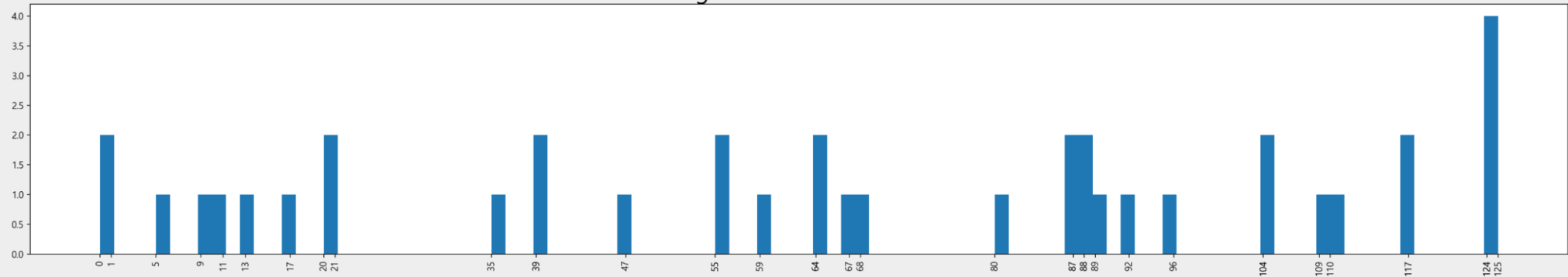
for i, time in enumerate(movieTime):
    plt.figure(figsize=(30,5))
    plt.title(data[0]['title'][i], fontsize=25)
    plt.hist(time, bins=100)
    plt.xticks(time, rotation=90)
    plt.show

```

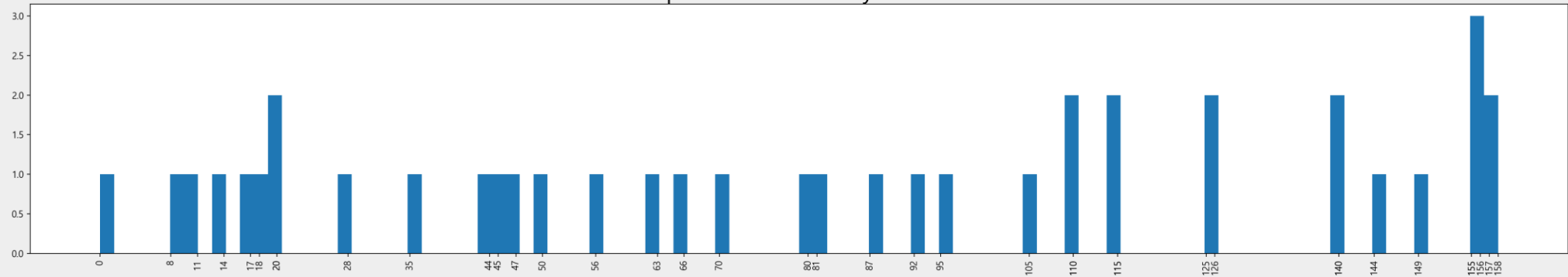
About Time



Doctor Strange in the Multiverse of Madness



Spider-Man No Way Home



4. 시각화

```
def draw(data):
    x = data['green_x'].split(',')
    y = data['green_y'].split(',')
    time = data['green_time'].split(',')

    x = list(map(float, x))
    y = list(map(float, y))
    time = list(map(float, time))

    fig, ax = plt.subplots(figsize=(11,10))

    im = ax.scatter(x,y, c=time, cmap='jet')
    ax.tick_params(labelsize=10)

    for spine_loc, spine in ax.spines.items():
        if spine_loc in ['right', 'top']:
            spine.set_visible(False)
        if spine_loc in ['bottom', 'left']:
            spine.set_position('center')

    plt.colorbar(im)

    for i,xvar in enumerate(x):
        plt.text(xvar, y[i], round(time[i],2), fontsize=10)

    plt.show()
```

