- dynamic 추가 방법
 - 1. 피아노 0.1초마다 note_on_status 값을 추출한다.
 - 2. 0.1 초에 해당하는 note_on 항목 중 velocity의 최대 값에 기반해 기호를 추출함.

```
input_file_note_status = [[{'note': x}, {'status': False}, {'velocity' : 0}] for x in range(128)] target_file_note_status = [[{'note': x}, {'status': False}, {'velocity' : 0}] for x in range(128)]
```

```
for velocity in velocity_list:
# 多口 文 之

if max_velocity < velocity[1]['velocity']:
    max_velocity = velocity[1]['velocity']

dynamic = distribute_dynamic(max_velocity)
input_dynamic_list.append(dynamic)
```

```
def distribute_dynamic(mean_velocity):
    velocity에 따른 dynamic 기호 추출
    dvnamic = ''
    if 0 <= mean_velocity < 36:</pre>
        dynamic = 'ppp'
    elif 36 <= mean_velocity < 49:</pre>
        dynamic = 'pp'
    elif 49 <= mean_velocity < 62:</pre>
        dynamic = 'p'
    elif 62 <= mean_velocity < 75:</pre>
        dynamic = 'mp'
    elif 75 <= mean_velocity < 88:</pre>
        dvnamic = 'mf'
    elif 88 <= mean_velocity < 101:</pre>
        dynamic = 'f'
    elif 101 <= mean_velocity < 114:</pre>
        dynamic = 'ff'
    elif 114 <= mean_velocity <= 127:</pre>
        dynamic = 'fff'
    return dynamic
```

new_dynamic 컬럼 추가하기 : 결과

	sec	msg_ty	pe cha	nnel	note	velocity	gynami	сасс	ent co	unt m	ain_vol	depth	pedal	pan
0	0.0		[]		[]	0	pp	р	0	0	100	0	0	0
1	0.1	['note_on', 'note_o	on'] [0, 0]	[60, 60]	[21, 21]	pp	р	0	2	0	0	0	0
2	0.2		0	[]	[]	0	Na	N	0	0	0	0	0	0
3	0.3	['note_on', 'note_o	on'] [0, 0]	[64, 64]	[32, 32]	pp	р	0	2	0	0	0	0
4	0.4		[]	0	[]	0	Na	N	0	0	0	0	0	0
	sec	msg_type	channel	not	te veloci	ty new_dy	namic	lynamic	accent	count	main_vo	ol depth	pedal	pan
0	0.0		0		0	0	ppp	ppp	0	0	10	0 0	0	0
1	0.1	['note_on', 'note_on']	[0, 0]	[60, 60	0] [21, 2	1]	ppp	ppp	0	2		0 0	0	0
2	0.2		0		0	0	ppp	NaN	0	0		0 0	0	0
3	0.3	['note_on', 'note_on']	[0, 0]	[64, 6	4] [32, 3	2]	ppp	ppp	0	2		0 0	0	0
4	0.4		0		0	0	ppp	NaN	0	0		0 0	0	0