

Method 1

train\_songs\_A

총 개수 (n\_songs): 638336

song_id or source id n-id	0	...	638335
0			
⋮			
115070			

train set 개수  
115071개

train\_songs\_A\_T : (638336, 115071)

train\_tags\_A\_T : (30191, 115071)

Method 2

train\_tagsong\_A

668533

총 개수 (n\_songs): 638336

총 개수 (n\_tags): 30191

song_id or tag_id n-id	0	...	(
0			(
⋮			(
115070			,

train set 개수  
115071개

playlist\_train['num\_songs']

nid	
0	1
1	2
2	1
3	2

playlist\_train['num\_tags']

nid	
0	1
1	1
2	0
3	1

		0	1	2
		S1	S2	S3
0	PL1	1	0	0
1	PL2	1	1	0
2	PL3	0	0	1
3	PL4	0	1	1

row\_s: [0, 1, 2, 3, 3]

col\_s: [0, 0, 1, 2, 1, 2]

dat\_s: [1, 1, 1, 1, 1, 1]

N\_songs: 3

	0	1	
	t1	t2	
0	PL1	0	1
1	PL2	0	1
2	PL3	0	0
3	PL4	1	0

row\_t: [0, 1, 3]

col\_t: [1, 1, 0]

dat\_t: [1, 1, 1]

N\_tags: 2

$N_{songs}: 3, 4$        $N_{tags}: 2, 4$

	0	1	2	3	4
	S1	S2	S3	T1	T2
0	PL1	1	0	0	1
1	PL2	1	1	0	1
2	PL3	0	0	1	0
3	PL4	0	1	1	0

← train\_tagsong\_A

⇒ row2: [0, 1, 1, 2, 3, 3, 0, 1, 3]

col2: [0, 0, 1, 2, 1, 2, 4, 4, 3]

+ 3  
N\_songs

$$N_{\text{tagsong}} = N_{\text{songs}} + N_{\text{tags}} = 5$$