



原声检索探讨

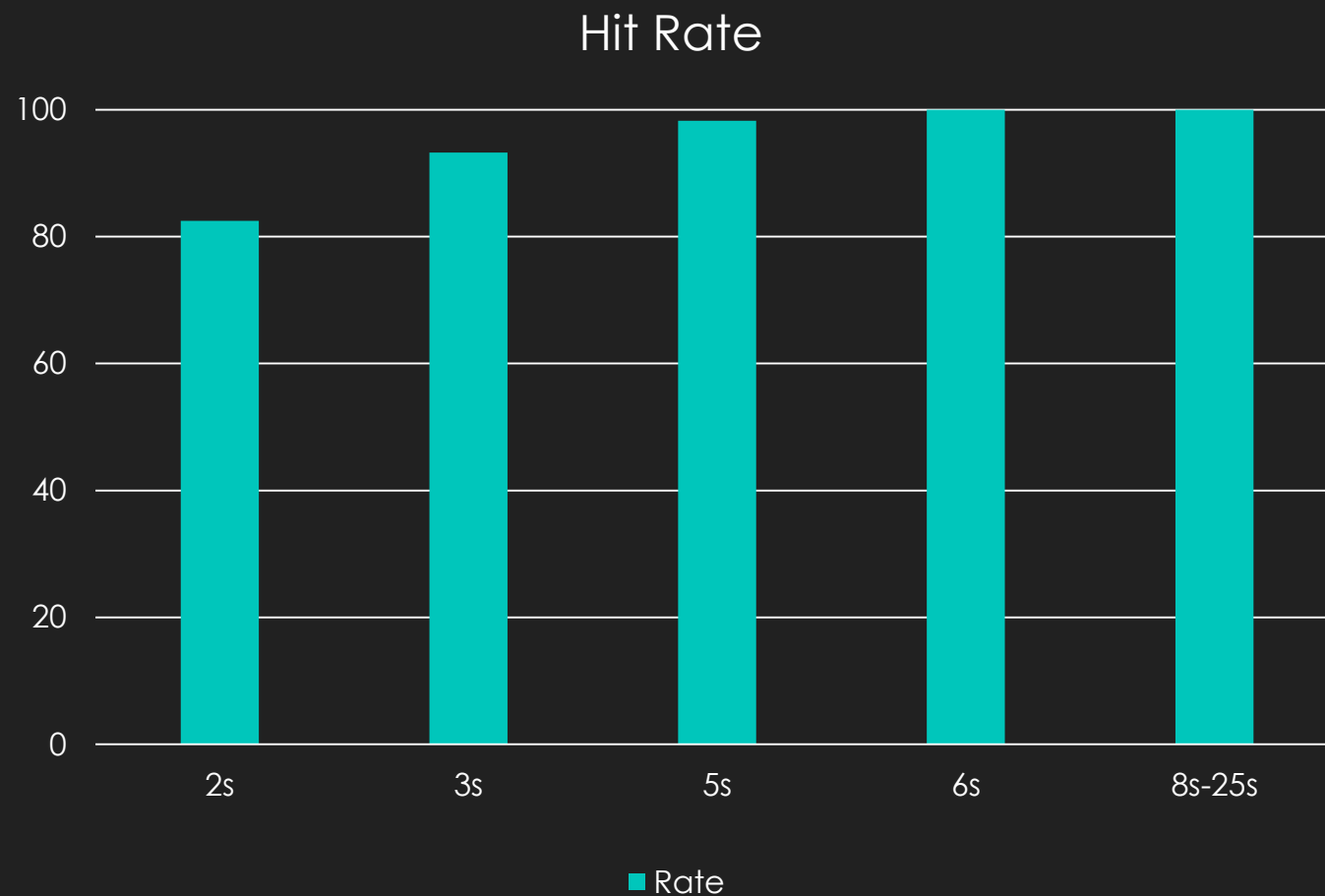
余家辉

桑榆扬



Recognition Rate / Hit Rate:

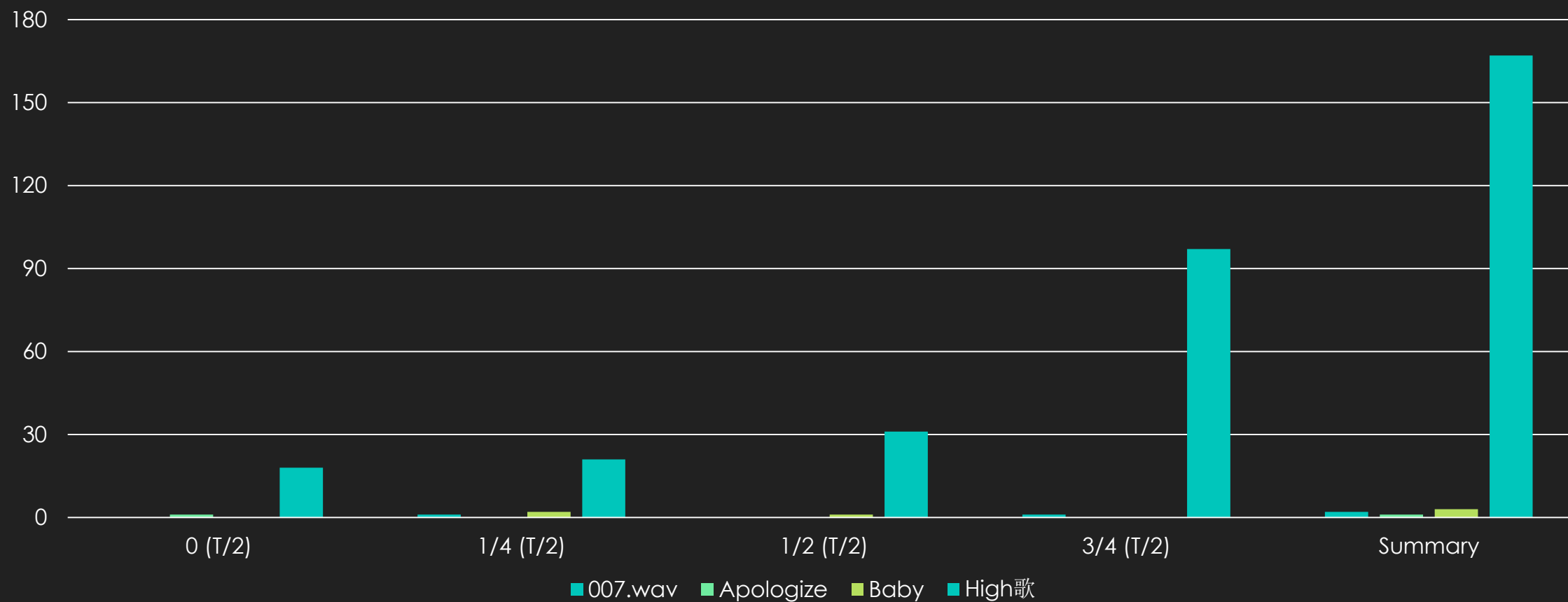
Demo ?



Vote Result:



Vote Result distribution



What about “Robust”?---Noise Test

Demo ?

The Key Part --- Algorithm

Read
WAV

Finger
Print

Insert
Hash

Build
Library

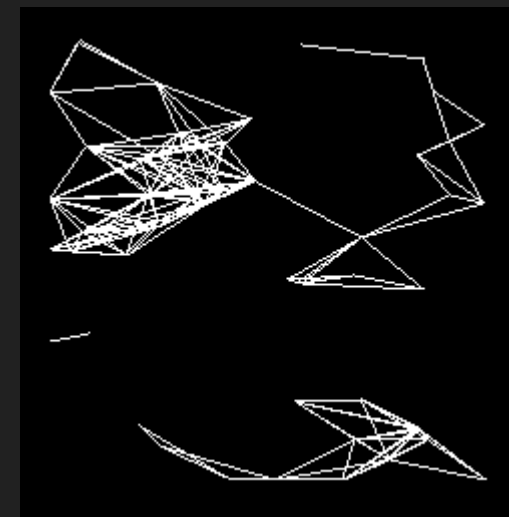
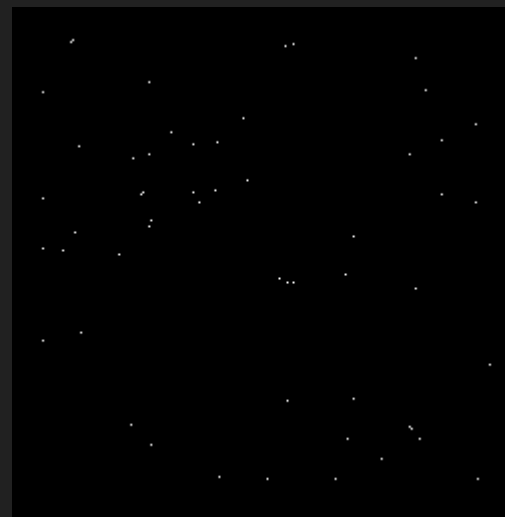
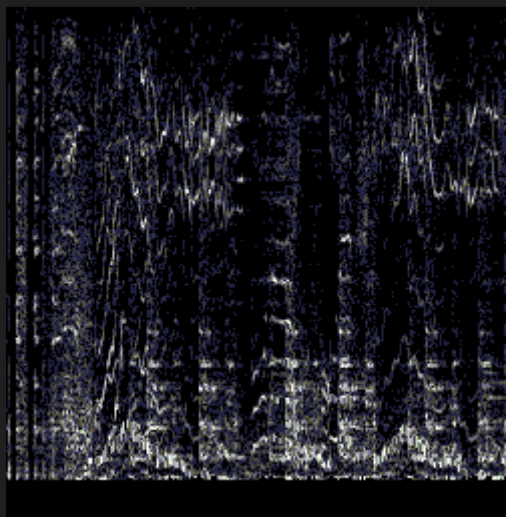
Rebuild
Hash

Read
WAV

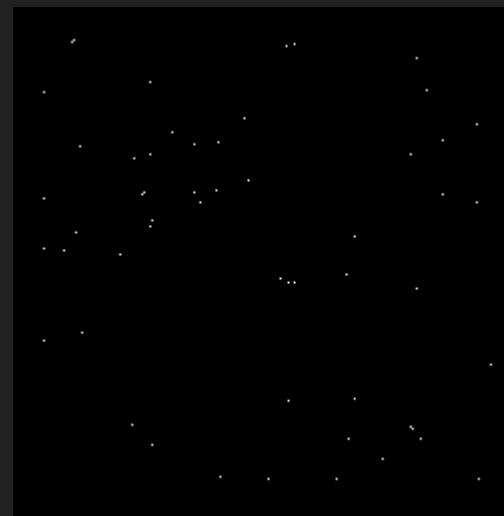
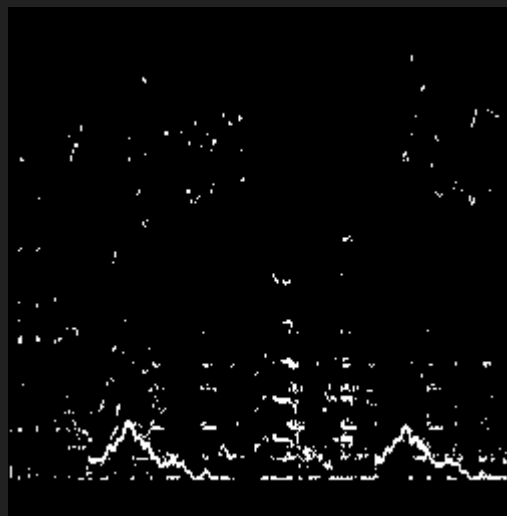
Finger
Print

Vote
Result

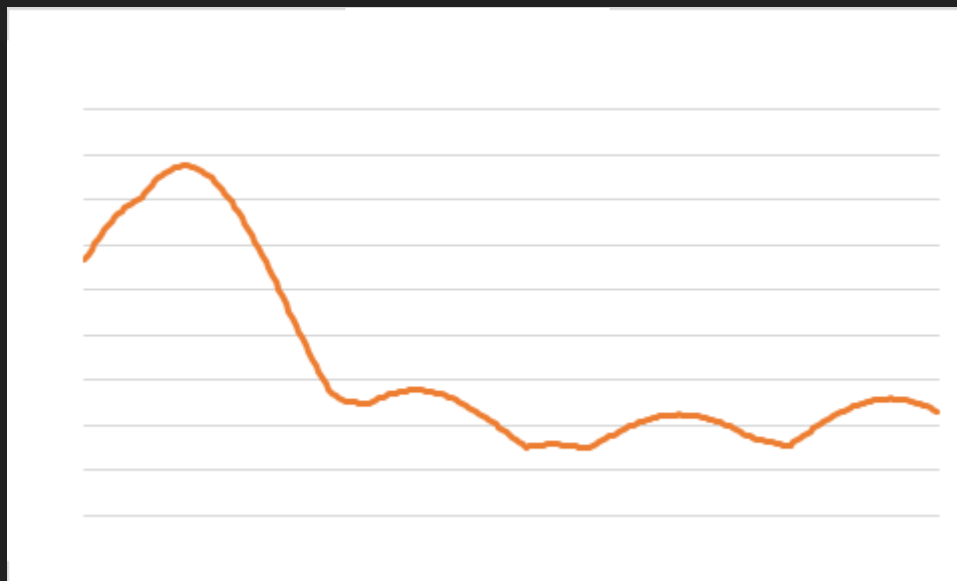
Algorithm---Finger Print :



Algorithm---Finger Print :



Algorithm---Finger Print:





Algorithm---Hash:

Start	Length	Next
	76	
.....

Start	Len	Next
	12	

Start	Len	Next
	64	

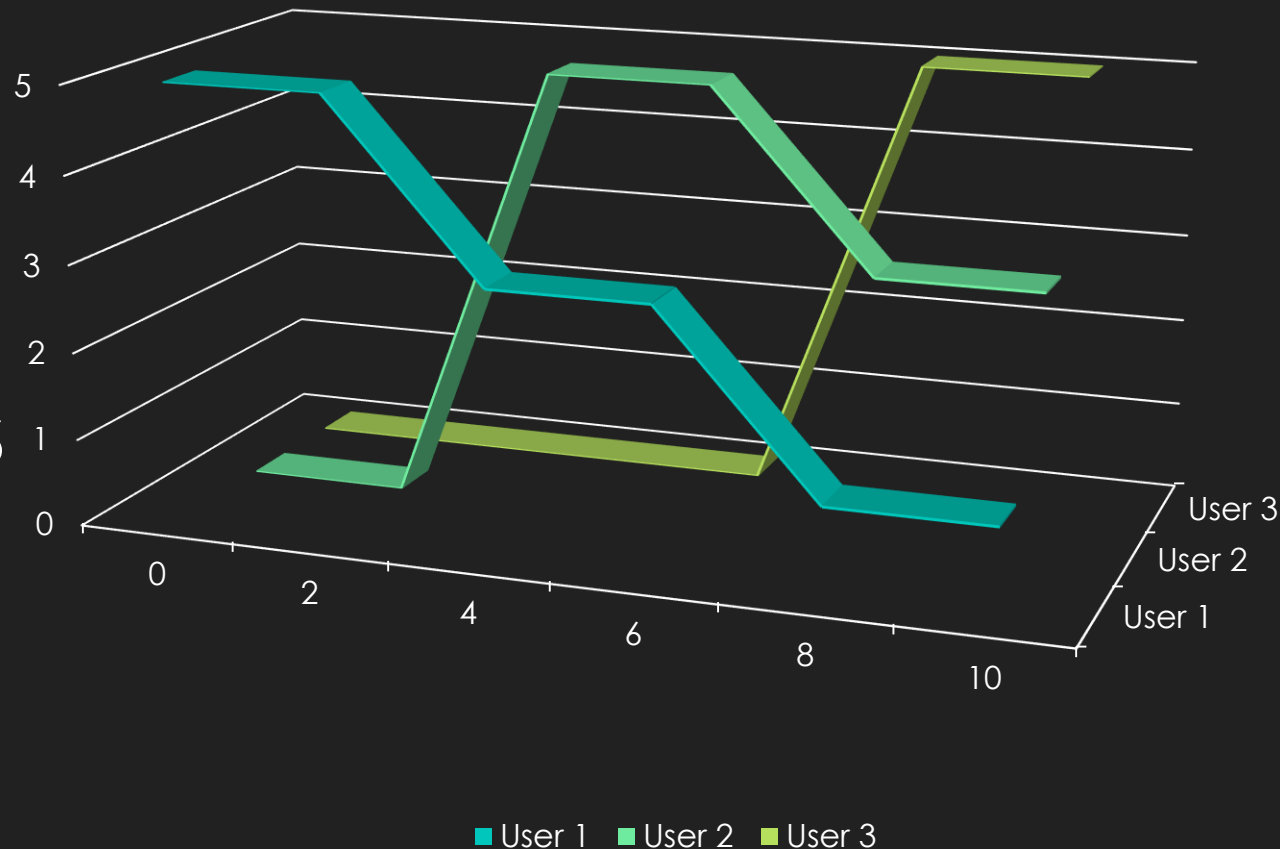




The Bottleneck --- Vote Table:

- OFFSET
- Algorithm

What if the song number is
HUGE ?!



TO DO: (Summer Vacation)

- The Server (Request/Response)
- The Android App (iOS ?)
- The Web Crawler
- Improve Algorithm
 - Vote Table
 - Hash Table
 - Multi-Thread

Thanks.