

# VIRTUAL CONDUCTOR

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**Everyone can be a conductor, all you need is just musical sense!**

# DJ = Conductor?



Traditional

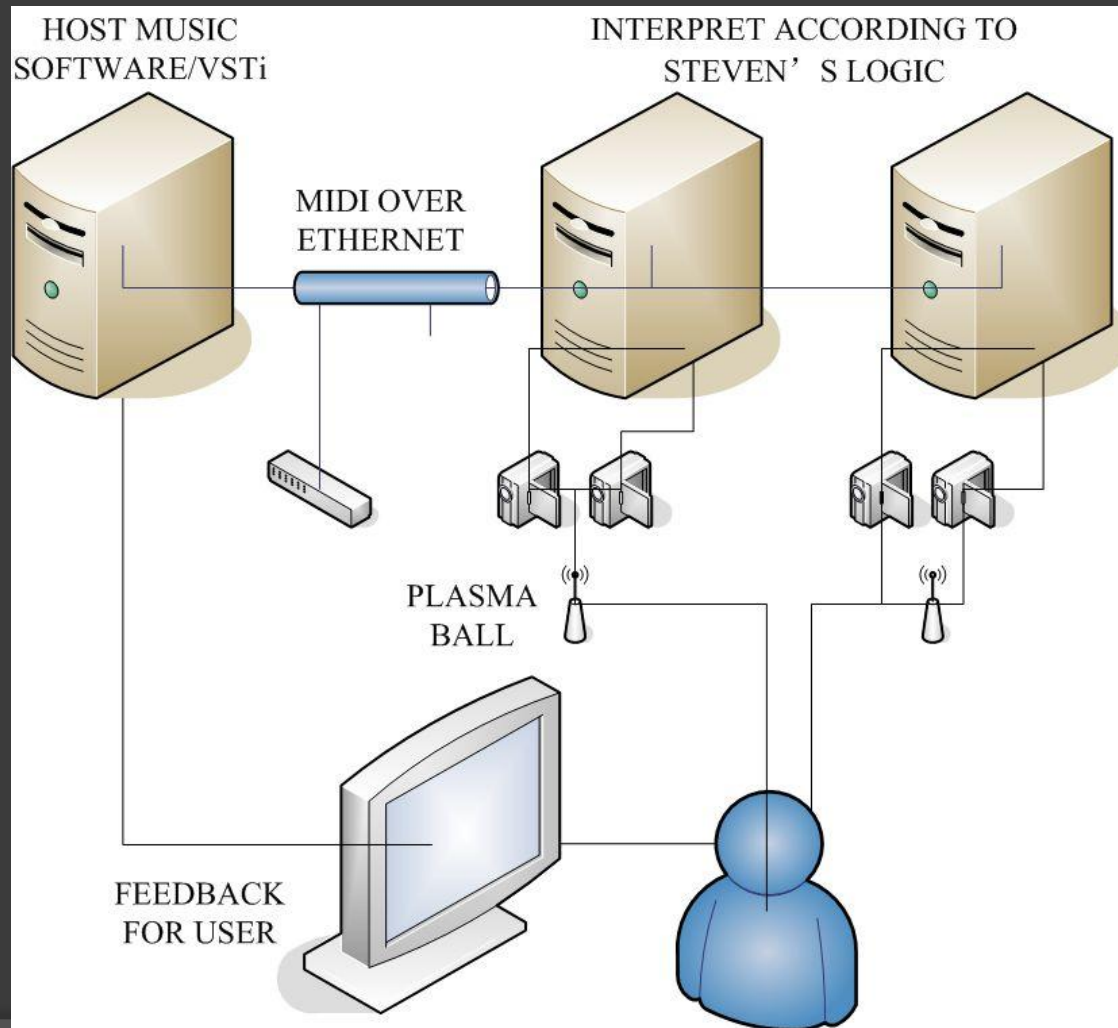


-What DJs do?

- Music selections;
- Beat matching;
- Audio mixing;
- Controlling the flows of music;
- Manipulating layers



# Hardware set-up and internal logics



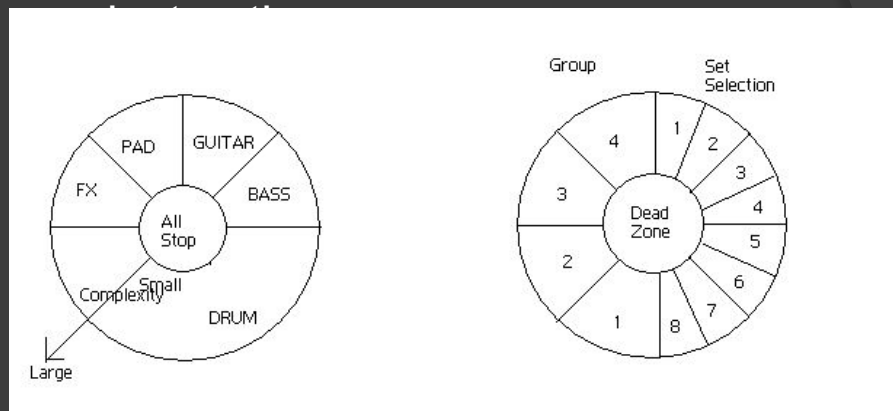
# Music composition and input device

FL

Studio



## Plasma balls



## Group

selections:

*Group 1 (Rapid rhythm)*

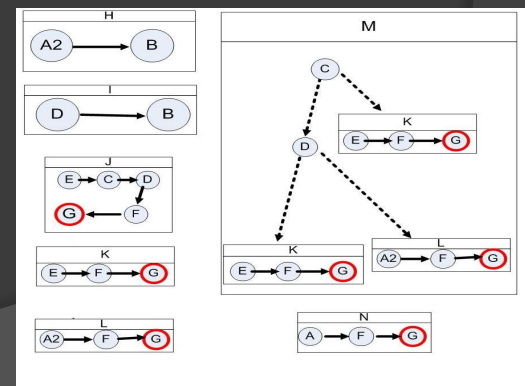
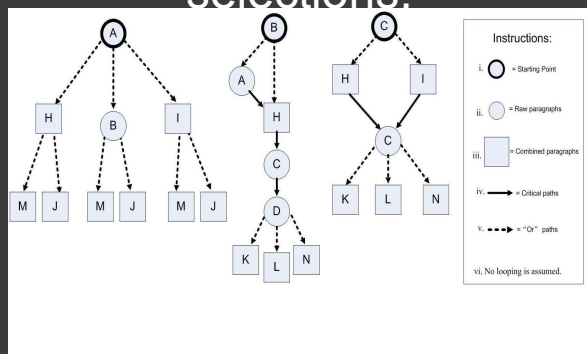
*Group 2 (Indie Dance)*

*Group 3 (Soft)*

*Group 4 (Trip pop)*

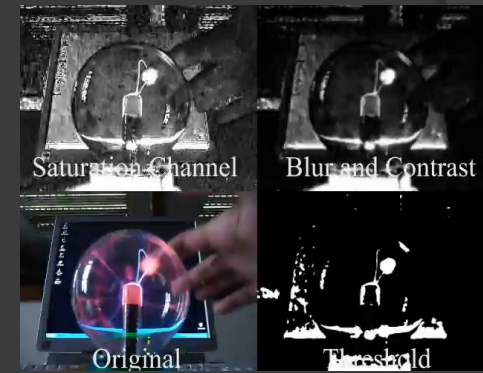
## Sets

selections:



# Development

- ⦿ Previous ideas:
  - Interactive music generation for shopping malls
  - Multi-touch table
  - Dice
- ⦿ Tests:
  - Combination of different musical styles;
  - Webcam detections
- ⦿ Difficulties:
  - Combination of music patterns
  - Accuracy of webcam detection



# Uniqueness and evaluation

- ◎ Uniqueness:
  - Music patterns random combinations;
  - Plasma ball as input device;
- ◎ Evaluation:
  - Original aim achieved successfully;
  - Improvement for time management;
  - Size of database.



# Thank you

