

Oregon State University

Productivity Playlist

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Emotion-based playlists are everywhere.



Mood Booster
Get happy with this pick-me-up playlist full of current feel-good songs!
5,706,063 FOLLOWERS



Feelin' Myself
When you feel like you're 100% that b**** Cover: Flo Milli
803,491 FOLLOWERS



Have a Great Day!
Feel great with these timelessly fun songs!
4,748,137 FOLLOWERS



Tender
Raw, sentimental feels.
318,042 FOLLOWERS



Drifting Apart
Feelings fade, people change.
157,715 FOLLOWERS



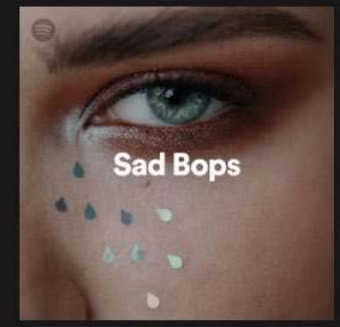
Down In The Dumps
The latest pop songs that are totally cry worthy.
524,476 FOLLOWERS



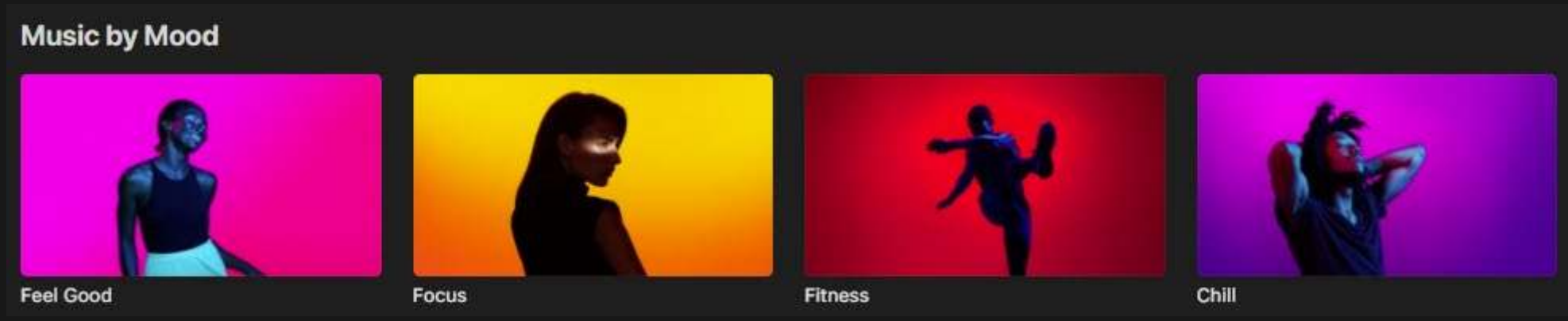
Confidence Boost
You're on top of the world. Don't forget it.
3,315,415 FOLLOWERS



Tear Drop
Emo rap feelings for the misunderstood. Cover: Juice WRLD
700,706 FOLLOWERS



Sad Bops
For all of us dancing on our own.
268,819 FOLLOWERS





Van Life
Home is where you park it.
219,665 FOLLOWERS

Arousal-Valence Emotion Space

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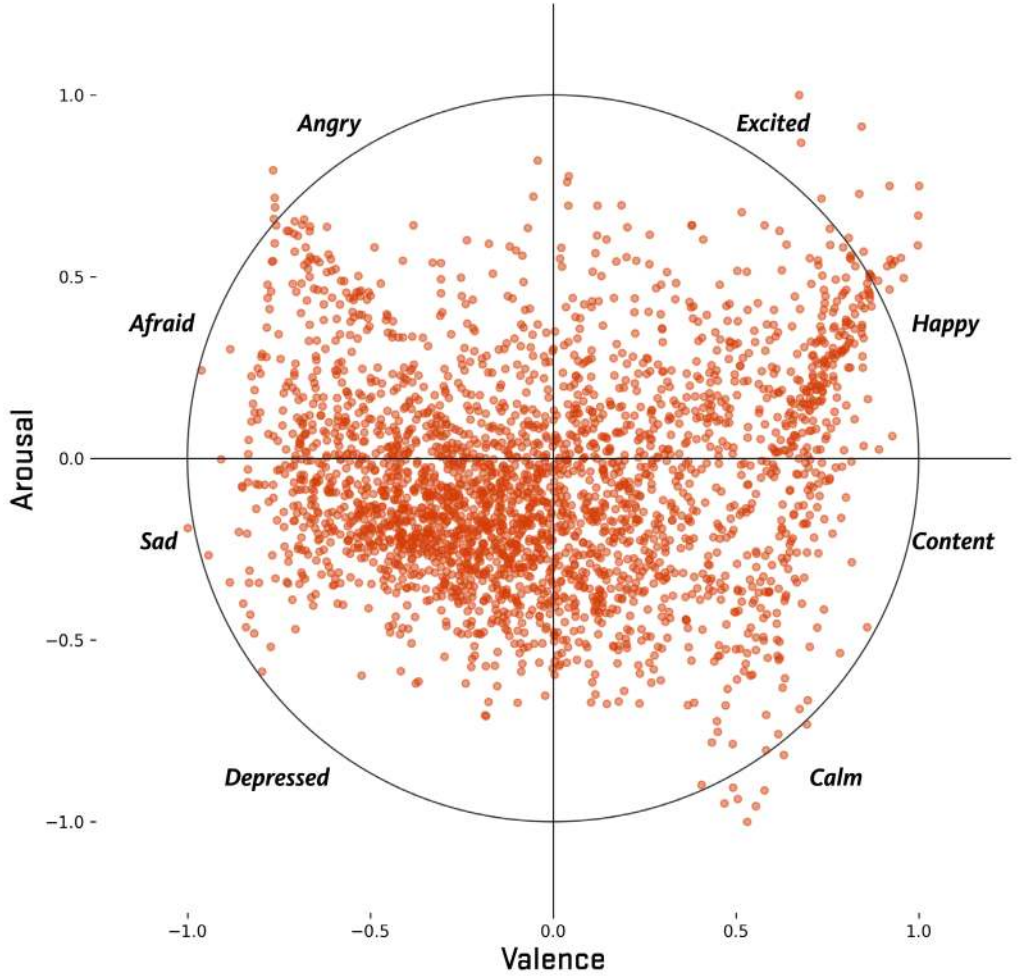

Deezer 2018

- **18,000+ songs**
- **2,700+ unique points**
- **Based on last.fm tags**

Making an emotional path.

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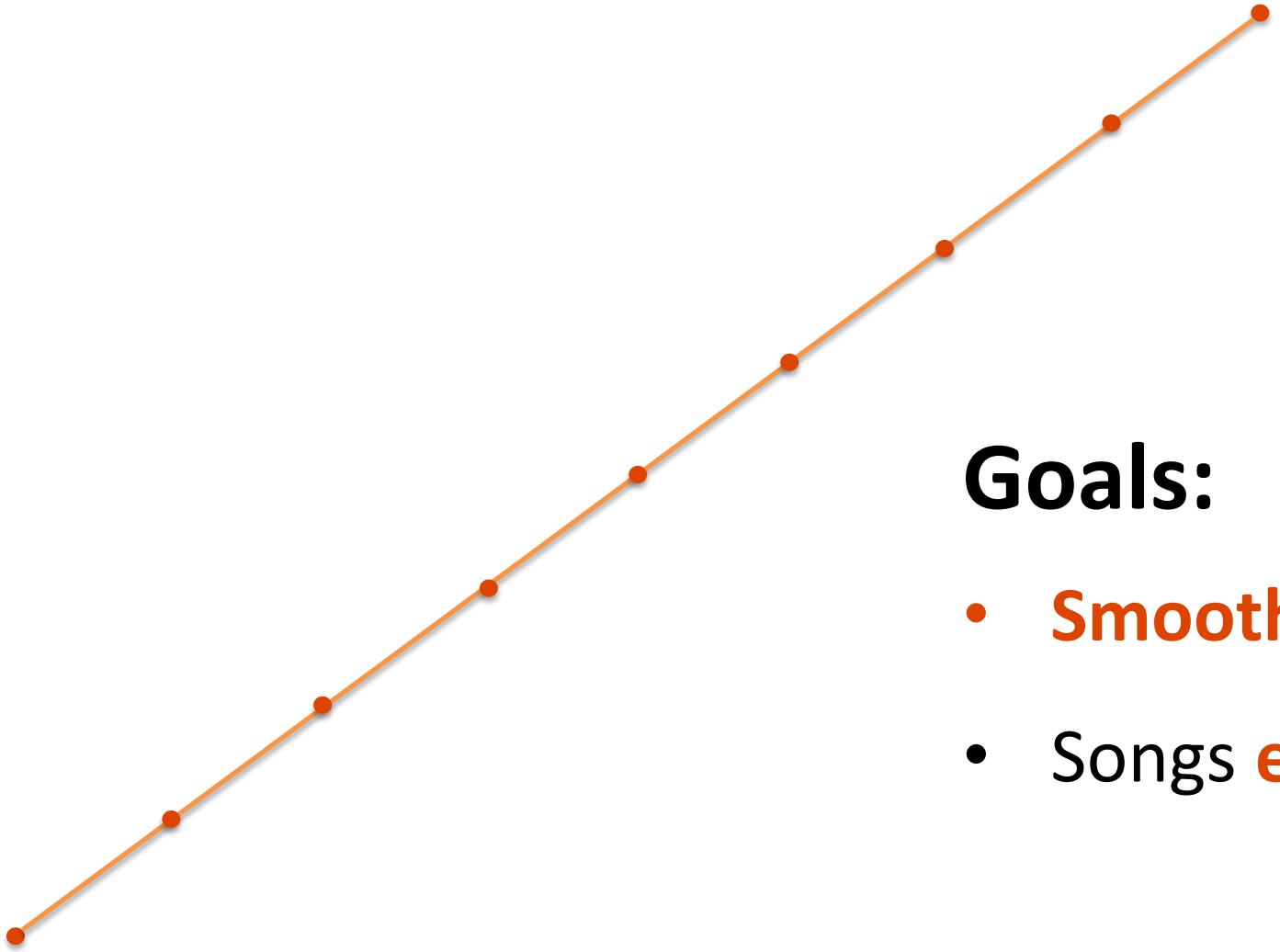
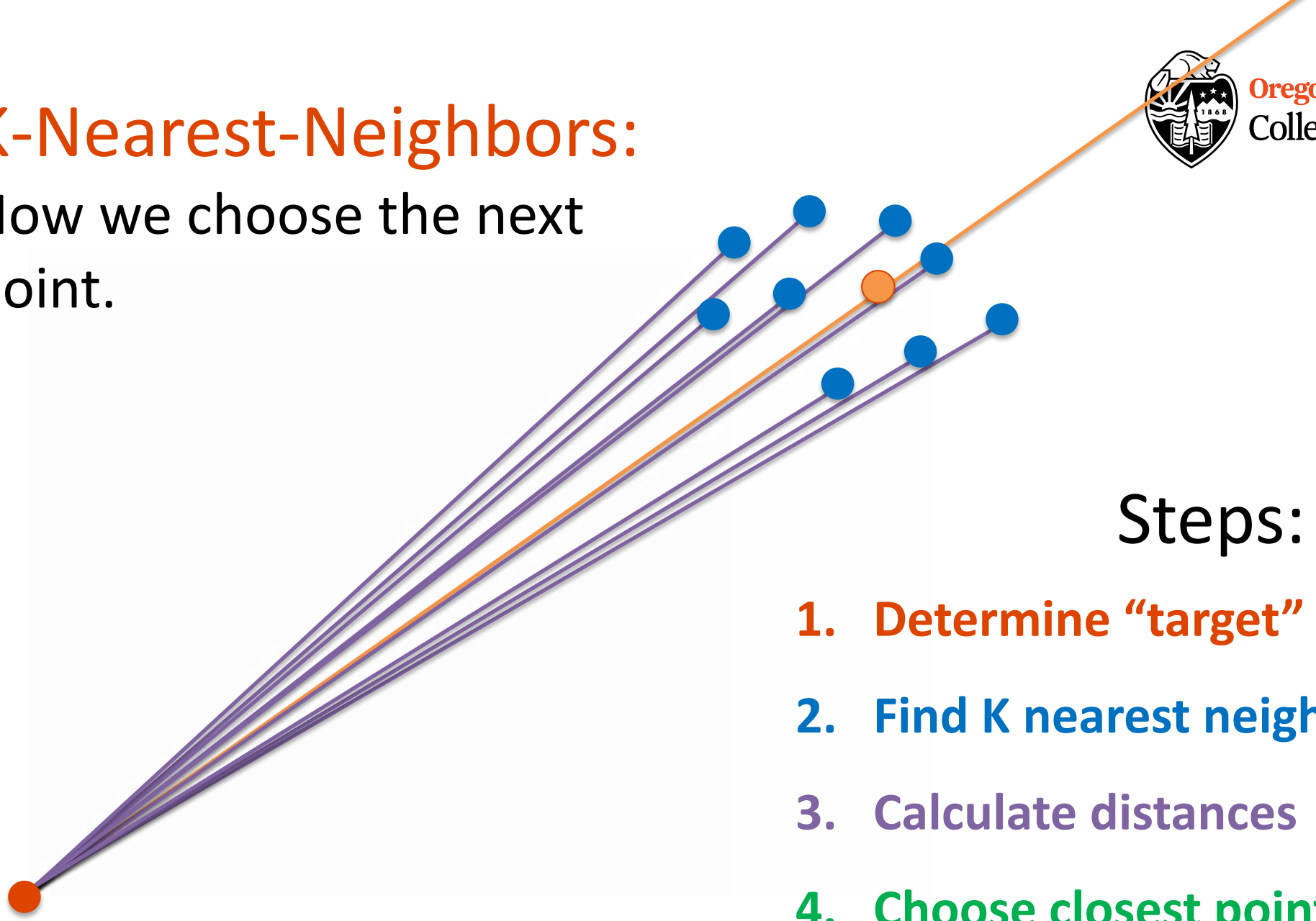


Goals:

- **Smooth** journey
- Songs **evenly spaced**

K-Nearest-Neighbors:

How we choose the next point.



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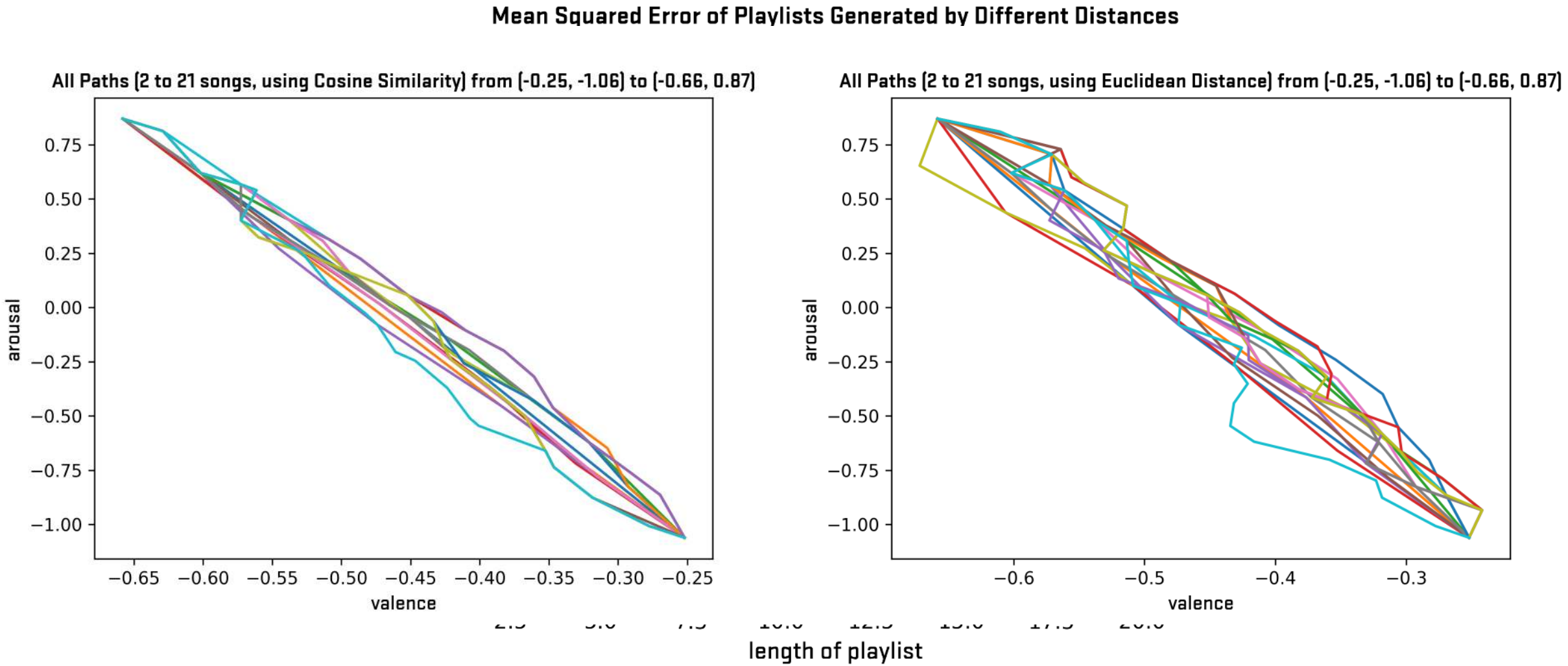
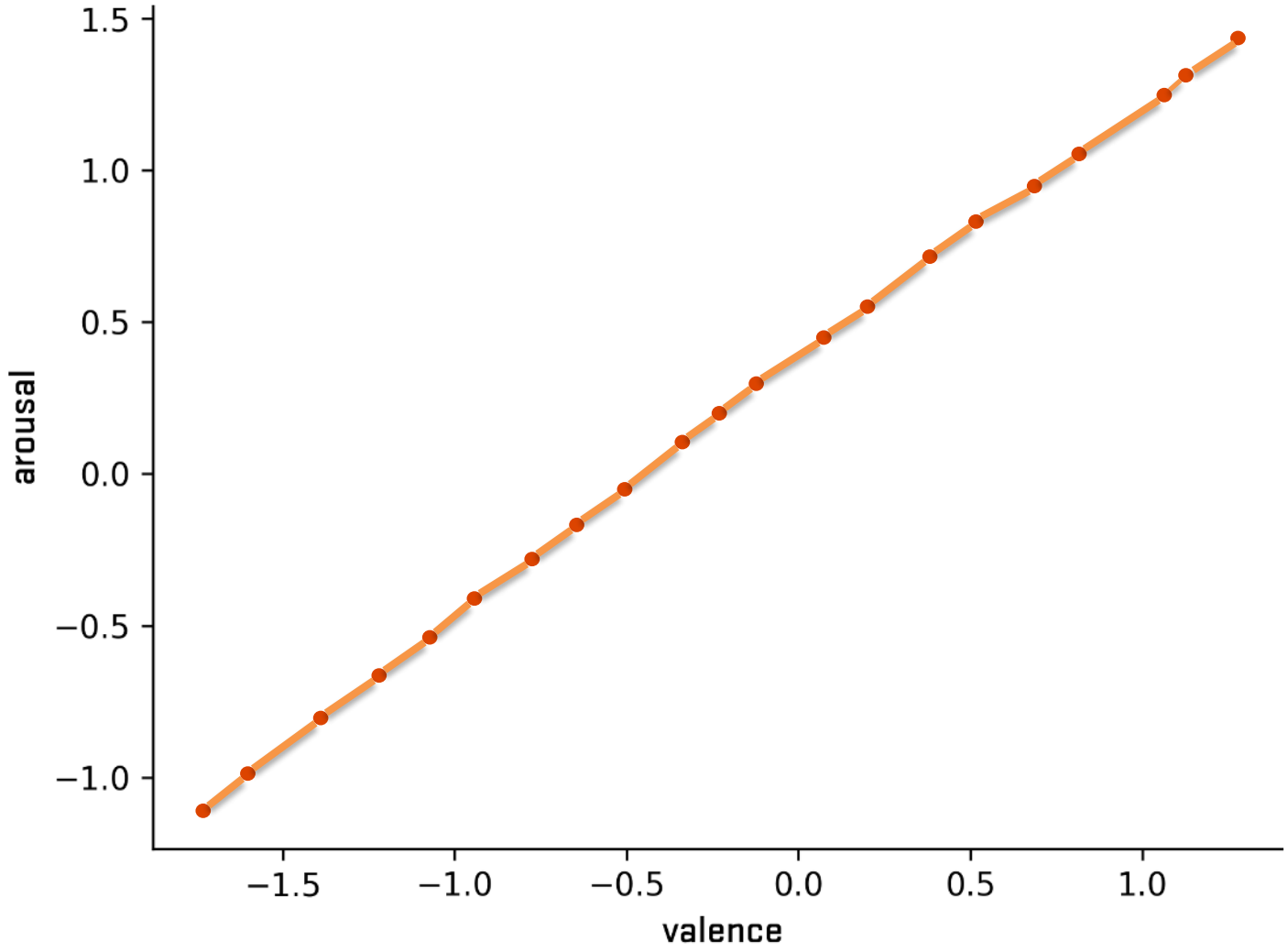
Steps:

1. **Determine “target” point**
2. **Find K nearest neighbors**
3. **Calculate distances**
4. **Choose closest point to target**

How we chose Cosine Similarity.

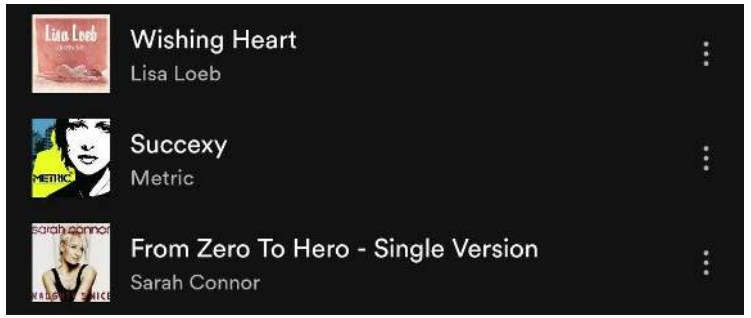


Let’s look at an example.









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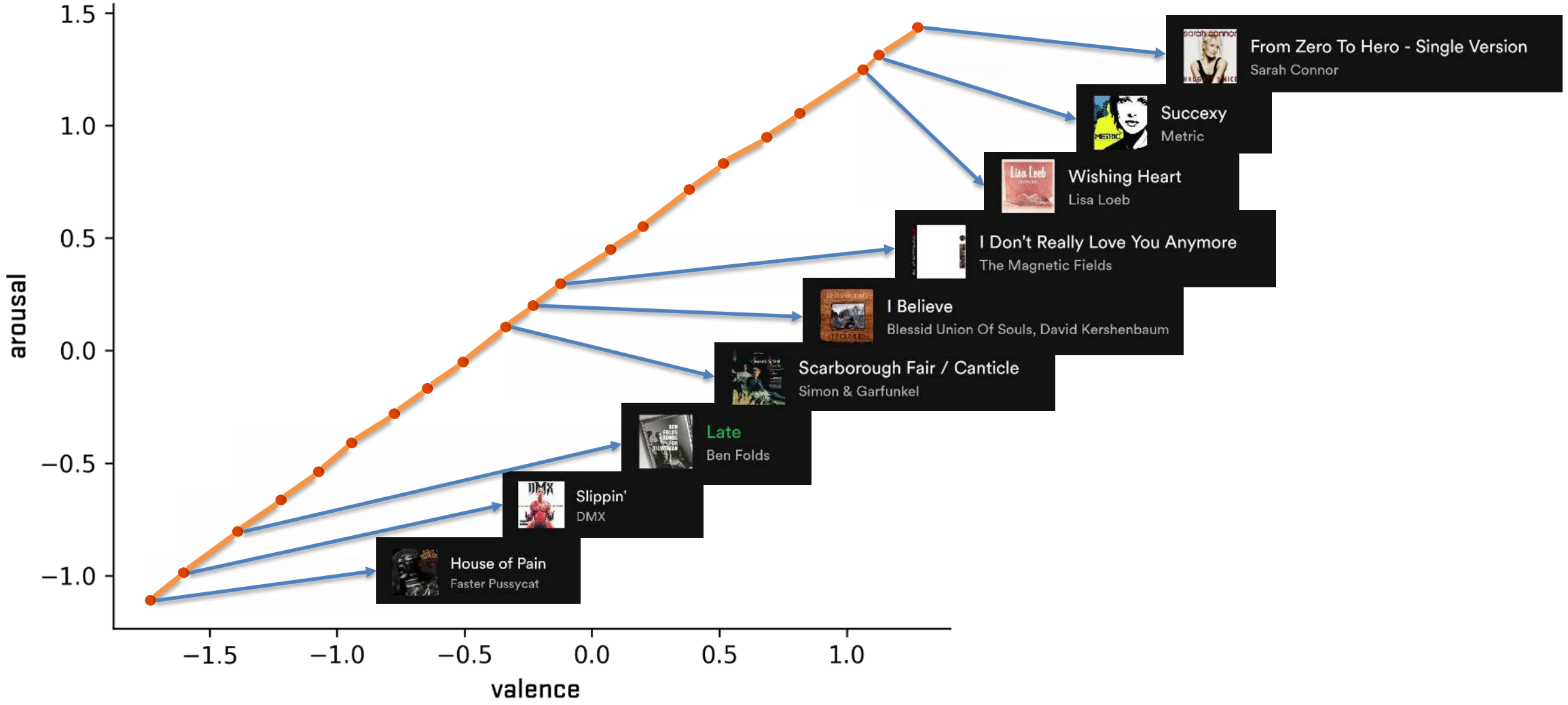

Conclusion + Next Steps

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Successfully makes smooth playlists between emotions

Starting point for further integration with emotion recognition, genre selection, etc.

Potential uses in mental health, productivity, etc.