



CHINA NATIONAL
MUSIC THEATER

Chinese Traditional Musical
Instrument Orchestra

Visualization
of emotion
in Chinese
traditional music

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JIN SHA TAN

Jin Sha Tan is a traditional aria of Qin opera. It is generous, solemn and full of emotion, which embodies the majestic emotional color of loyal soldiers who are about to sacrifice, and well conveys the melody characteristics of Qin opera.

Avg. Arousal	Avg. Valence	Avg. Melancholic	Avg. Dark	Avg.Calm	Avg.Tense
-0.263	-0.303	0.216	0.722	0.186	0.747

Emotion Value

Tense: High

0.747

According to the spectral moment center equation, we can decompose the image or sound into different spectrum concepts.

The frequency of the curve shaped spectrum is lower than that of the peak shaped spectrum, and the nervous mood shape presents the inverted V-shape, which expresses an inward tense mood, with a sharper and sharper contour.

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Brochure Guide

When you open the brochure in 360°, you can catch sight of a blooming peony from the top view. You may have discovered that each part of this flower is not in a balance, this is because each part is a visualization of different emotions, and the composition of the song's emotions is always full of difference.

Emotion Value

Calm: Very low

0.186

Calm emotions convey a positive meaning, the ups and downs of the emotional curve are smaller, and the emotional shape is more complete and full.

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Visualization Principle

We used the petals of peony flowers to visualize the mood of the song. Different petal shapes correspond to different emotions. The size of petals correspond to the value of emotions.

And the color of petals corresponds to different songs. We also used the stems and leaves of peony flowers to visualize the Valence and Arousal values.

Emotion Value

Melancholic:
Low 0.216

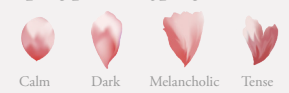
To a certain extent, melancholic mood has the dual meaning of negative and vigilance, and its shape is similar to the inverted triangle with sharp edge to show the fusion of negative emotions.

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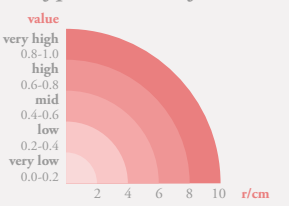
Visualization

Standard

shape of petals = type of Emotions



size of petals = value of Emotions



color of leaves = value of Valence



complexity of leaves = value of Arousal



Emotion Value

Dark: High

0.722

Dark, as a mixture of negative emotions, presents a complete and full emotional shape, but the overall trend is downward and concave to the interior.

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