



CHINA NATIONAL
MUSIC THEATER

Chinese Traditional Musical
Instrument Orchestra

Visualization
of emotion
in Chinese
traditional music

梁祝

LIANG
ZHU





LIANG ZHU

Liang Zhu is a well-known traditional song in China. This tune takes the melody of Yue Opera as the material and is based on a beautiful, sad and moving love story. Because the story depicted by music is full of contradictions, reluctant and sadness, the song is full of melancholic and dark emotions.

Avg. Arousal
-0.425

Avg. Valence
-0.409

Avg. Melancholic
0.590

Avg. Dark
0.603

Avg. Calm
0.584

Avg. Tense
0.215

Tense: Low

0.215

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 Liang Zhu's different emotions, and the composition of the song's emotions is always full of difference.

Emotion Value

Calm: Mid

0.584

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:
Mid 0.590

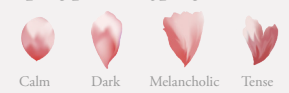
To a certain extent, melancholic mood has the dual meaning of negative and vigilance, and its shape is similar to the inverted triangle with sharp edge to show the fusion of negative emotions.

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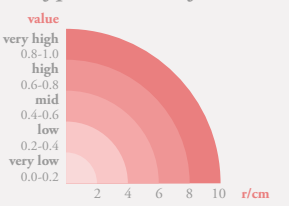
Visualization

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

0.603

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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