



CHINA NATIONAL
MUSIC THEATER

Chinese Traditional Musical
Instrument Orchestra

Visualization
of emotion
in Chinese
traditional music

梅花三弄



MEI HUA
SAN NONG



MEI HUA SAN NONG

Mei hua san nong was originally a flute music of Jin Dynasty, which was later adapted to guqin music.

The music score of piano music was first seen in 1425 A.D. Through the white fragrance and cold resistance of the plum blossom, the music expresses its feelings by singing praises to people with noble moral integrity.

Avg. Arousal
-0.389

Avg. Valence
-0.377

Avg. Melancholic
0.855

Avg. Dark
0.674

Avg. Calm
0.717

Avg. Tense
0.043

Emotion Value

**Tense:
Very Low
0.043**

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: High

0.717

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:
Very High
0.855**

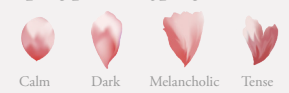
To a certain extent, melancholic mood has the dual meaning of negative and vigilance, and its shape is similar to the inverted triangle with sharp edge to show the fusion of negative emotions.

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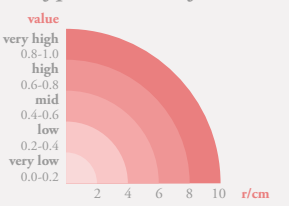
Visualization

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

0.674

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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