

What Jazz Would Be Interesting?: A Study on Complexity and Coping-Potential

Seulgi Son, Jee-youn Kim, Kyongcheon Min, Seon-hee Choi, Kyungil Kim

What objects do we feel interesting? According to prior literatures using visual stimuli, two appraisals which cause interest are "complexity" and "coping-potential". We are interested if these appraisals could apply to MUSIC. This study is to choose complex and simple jazz and check if coping-potential is manipulated. Moreover, we try to know if participants rate complex jazz as interesting when coping-potential is high.

"Interest" is a "Knowledge emotion" High Pleasure Interest Low Boredom Confusion Low (—) Complexity: How complex it is.

appraiser could understand what it is.

These are found on visual objects

(polygons, poem, artworks). 2)

Coping-potential: How possibly an

Then, what about MUSIC?

Pleasant/unpleasant visual and auditory stimuli activate the same core network in the left hemisphere.³⁾

Complexity in music is found when...

- 1) Melody is changed than harmony is.⁴⁾
- 2) Continuity is disappeared.⁵⁾
- 3) Music is unfamiliar than is familiar.⁶⁾

Coping-potential in music was manipulated by giving participants general information about the stimuli as a prior literature did.²⁾

We chose JAZZ to study. Because jazz…

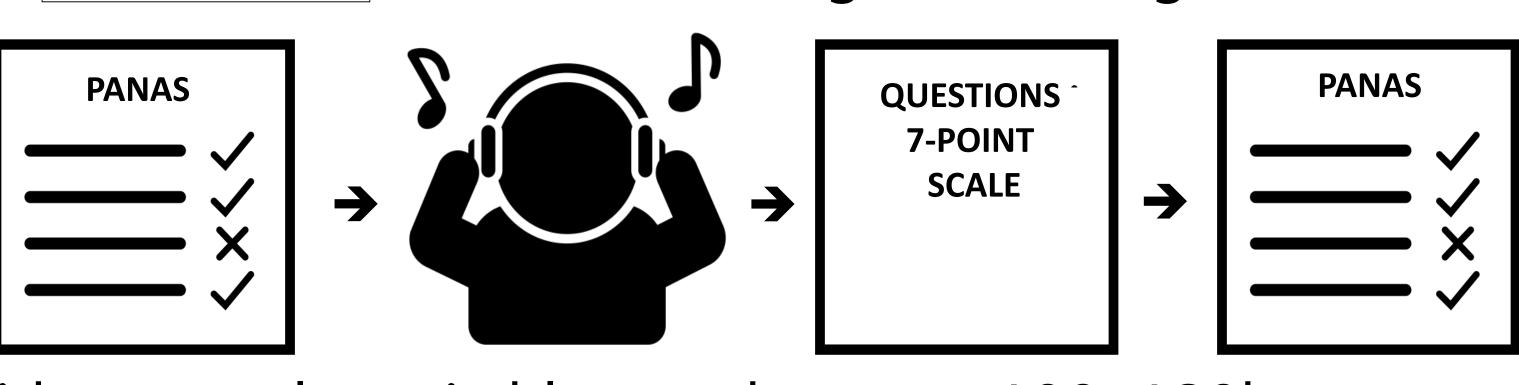
- 1) is not familiar to undergraduate students.
- 2) has a **similar emotional valence**. not gloomy, but enjoyable.

METHOADS

Pilot test(n=81) 2X2 Between design

Purpose To sort out 20 jazz as a Complex or Simple one.

- Procedure - PANAs-Listening-Measuring-PANAs -



With no vocal, not in blue, and approx. 100-120bpm songs

Complexity

Manipulation Coping-potential

- 1) How familiar is it?
- 2) How frequent is the melody repeated?
- 3) How variable is the pitch?
- 1) Giving Detailed or Undetailed information to participants
- 2) How well do you understand music?

8 jazz were survived: 4 Complex ones, 4 Simple ones.

Study(n=70) 2X2 Mixed design

Purpose To see how participants feel the jazz as complexity and coping-potential were changed.

MAIN HYPOTHESIS

Jazz would be interesting if complexity and coping-potential are both high.

Procedure Repeated the above procedure with 8 jazz.

Manipulation Same as the pilot study.

For coping-potential, we additionally gave an explanation for each song.

Pleasure Interest High Low High Coping-potential Coping-potential Confusion Boredom Low High High Low Coping-potential Coping-potential Low complexity High complexity 1) Jazz is **interesting** when **complexity**

RESULTS & CONCLUSIONS

- 1) The results is **opposite** from the prior works which used visual stimuli.
- 2) There is possibility that jazz itself is easy to understand (high coping-potential).

is high but coping-potential is low.

2) Interest and pleasure are not seperated.

3) We propose to use other stimuli like modern music, which is difficult to understand and interpret.

Silvia, P. J. (2010). Confusion and interest: The role of knowledge emotions in aesthetic experience.
 Psychology of Aesthetics, Creativity, and the Arts, 4(2), 75.4
 Silvia, P. J. (2005). What is interesting? Exploring the appraisal structure of interest. *Emotion, 5*(1), 89.
 Royet, J. P et al. (2000). Emotional responses to pleasant and unpleasant olfactory, visual, and auditory stimuli:
 a positron emission tomography study. Journal of Neuroscience, 20(20), 7752–7759.
 Williams, L. R. (2008). Effect of Music Complexity on Nonmusicians' Focus of Attention to Melody or Harmony.
 Update: Applications of Research in Music Education, 26(2), 27–32.
 Madsen, S. T., & Widmer, G. (2006). Music complexity measures predicting the listening experience. *Entropy, 1*(4), 1
 North, A. C., & Hargreaves, D. J. (1995). Subjective complexity, familiarity, and liking for popular music.

Psychomusicology: A Journal of Research in Music Cognition, 14(1-2), 77.