

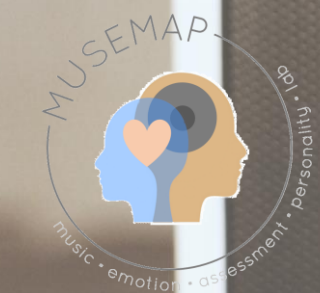
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FACTORS INFLUENCING MUSIC-INDUCED EMOTIONS

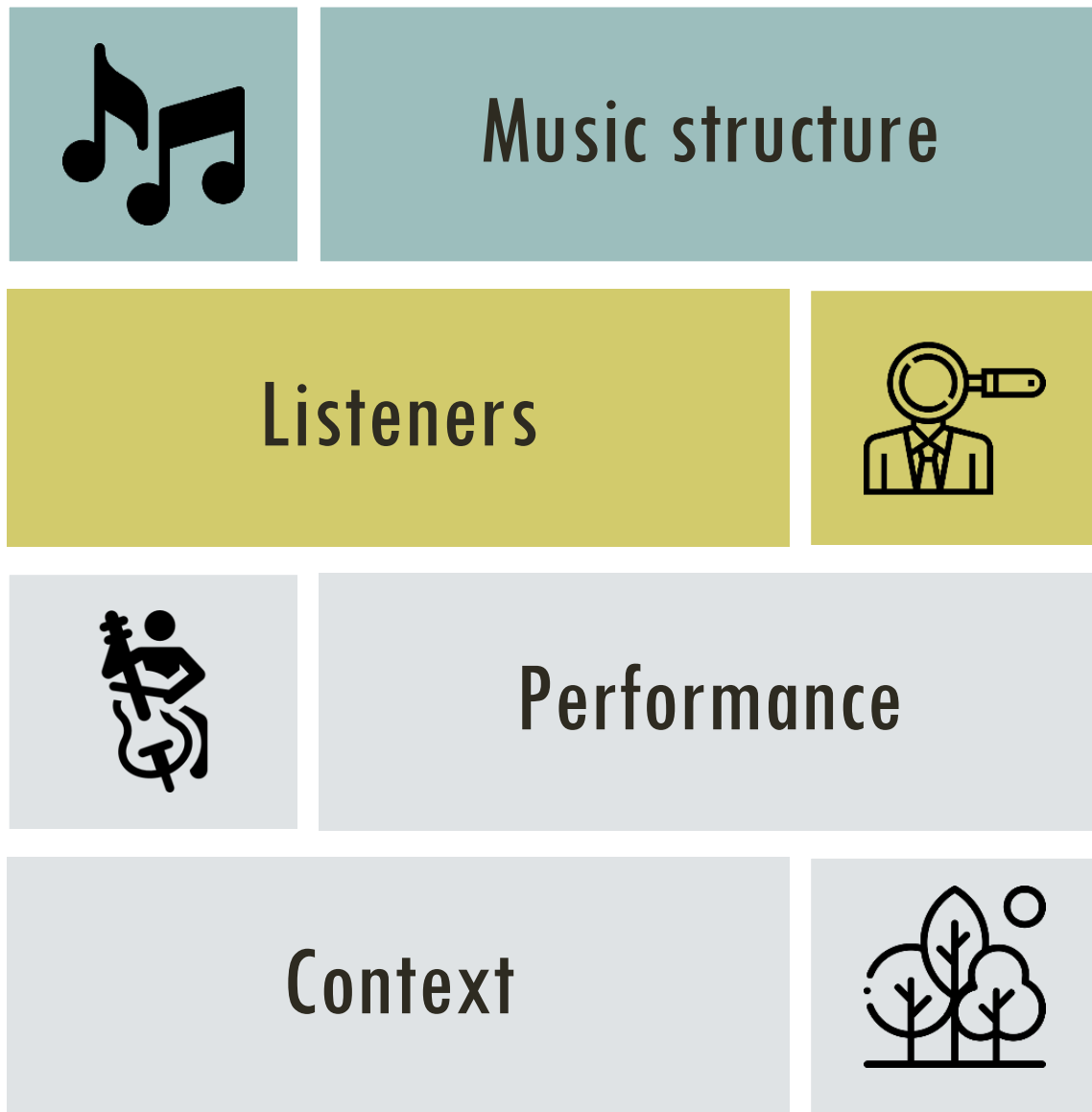
The role of listener, performance,
and musical structure features

Julia Vigl &
Marcel Zentner
08-24-2023



MUSIC AND EMOTIONS

- Music can express, communicate and evoke emotions
- Emotional effects are among the most cited motives for listening
 - Mood regulation
 - Stress reduction
 - Intensifying, mitigating, changing emotional states
- Are emotional effects of music universal?
 - Perceived vs. felt emotions
 - Type of emotions
 - Intensity of emotions



INDUCTION RULE MODEL

Scherer & Zentner (2001)

- Segmental features
- Suprasegmental features

- Musical ability (expertise, talent)
- Stable disposition (personality, attitudes)
- Current mood state (affect, concentration)

LISTENER FEATURES AND MUSIC INDUCED EMOTIONS

Gerstgrasser, Vigl & Zentner (2023)

Research questions:

1. Do pieces of music **evoke similar emotions** in all listeners? → Structural features
2. Do people with higher **musical expertise** experience more intense and differentiated emotions?
3. How much variance in music-induced emotions is explained by **listener features**?

LISTENER FEATURES AND MUSIC INDUCED EMOTIONS

Gerstgrasser, Vigl & Zentner (2023)

Method:

- N = 154
- 12 classical music pieces in 3 emotion categories:
 - Sublimity, Vitality, Unease (GEMS)
- Measures:
 - Felt emotions (GEMS-25)
 - Mood (PANAS)
 - Big 5 (BFI-K)
 - Musical expertise and aptitude (Micro-PROMS)

LISTENER FEATURES AND MUSIC INDUCED EMOTIONS

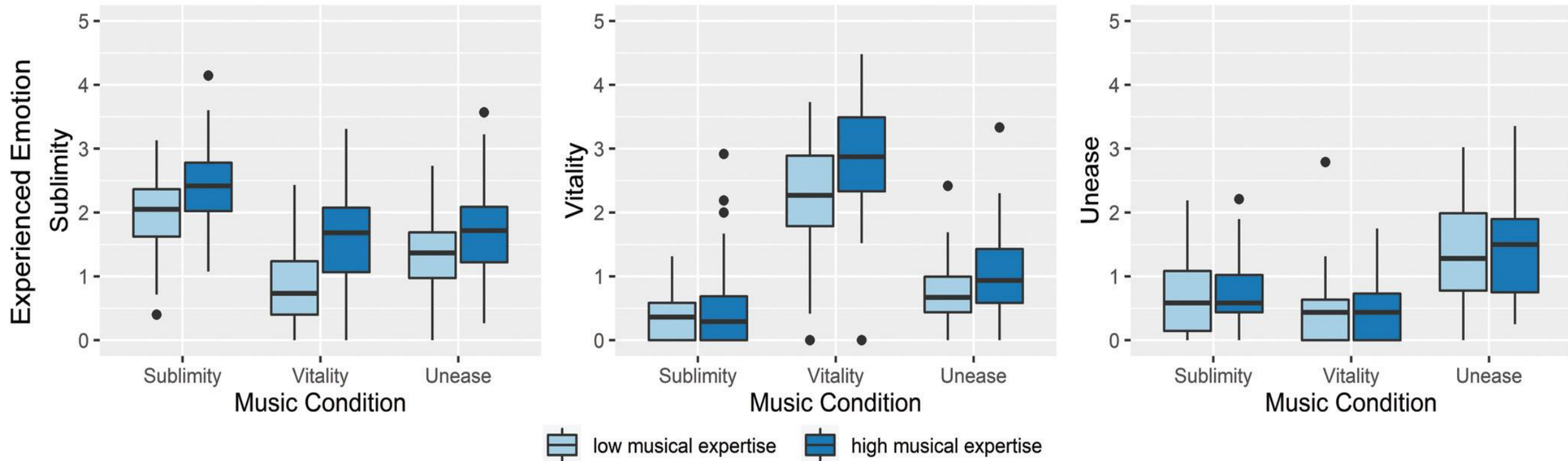
Gerstgrasser, Vigl & Zentner (2023)

Predictors of emotional intensity

	General intensity	Sublimity	Vitality
Musical expertise	+	+	+
Musical aptitude			
Mood	+ (positive mood)	+ (positive mood) - (negative mood)	+ (positive mood)
Personality		+ (openness)	- (neuroticism)

~30% of variance explained

Intensity of Emotion Ratings Depending on the Music Condition



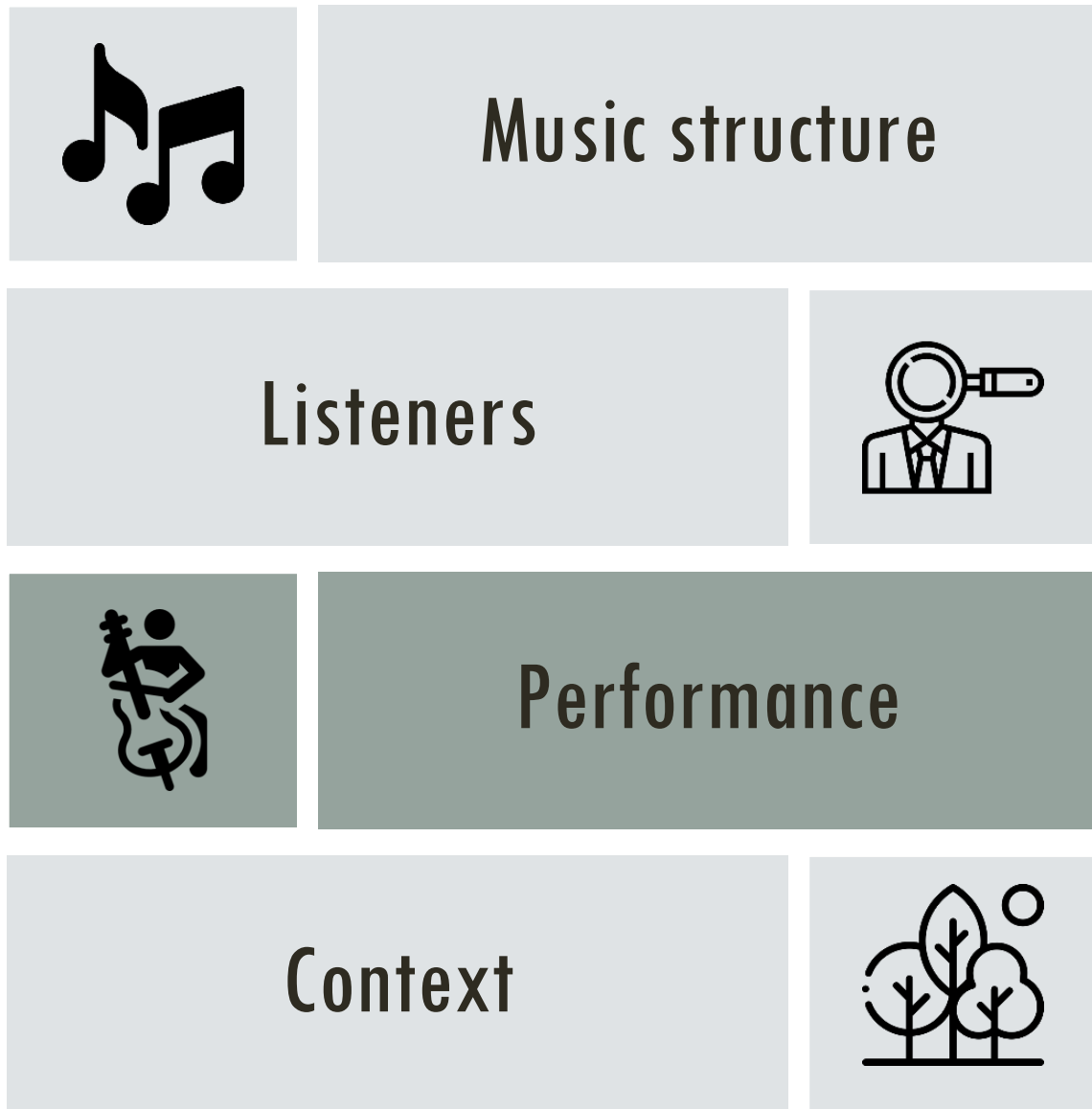
Musical structure & musical expertise

LISTENER FEATURES AND MUSIC INDUCED EMOTIONS

Gerstgrasser, Vigl & Zentner (2023)

In conclusion ...

- The **type** of the emotion experiences depends largely on musical structure
- Predictors of emotional **intensity**
 - Musical expertise
 - The effect of mood seems to be stronger than personality
 - The effects of mood and personality depend on the emotion category



INDUCTION RULE MODEL

Scherer & Zentner (2001)

- Characteristics of musicians
- Artistic skills
- Performance quality

PERFORMANCE QUALITY AND MUSIC INDUCED EMOTIONS

Vigl & Zentner (2023)

Research questions:

1. Is the **intensity** of music-evoked emotions affected by the quality of a musical performance?
2. Is this possible performance-effect weakened or intensified by **listener features**, namely musical expertise, personality aspects, and mood?

PERFORMANCE QUALITY AND MUSIC INDUCED EMOTIONS

Vigl & Zentner (2023)

N = 142

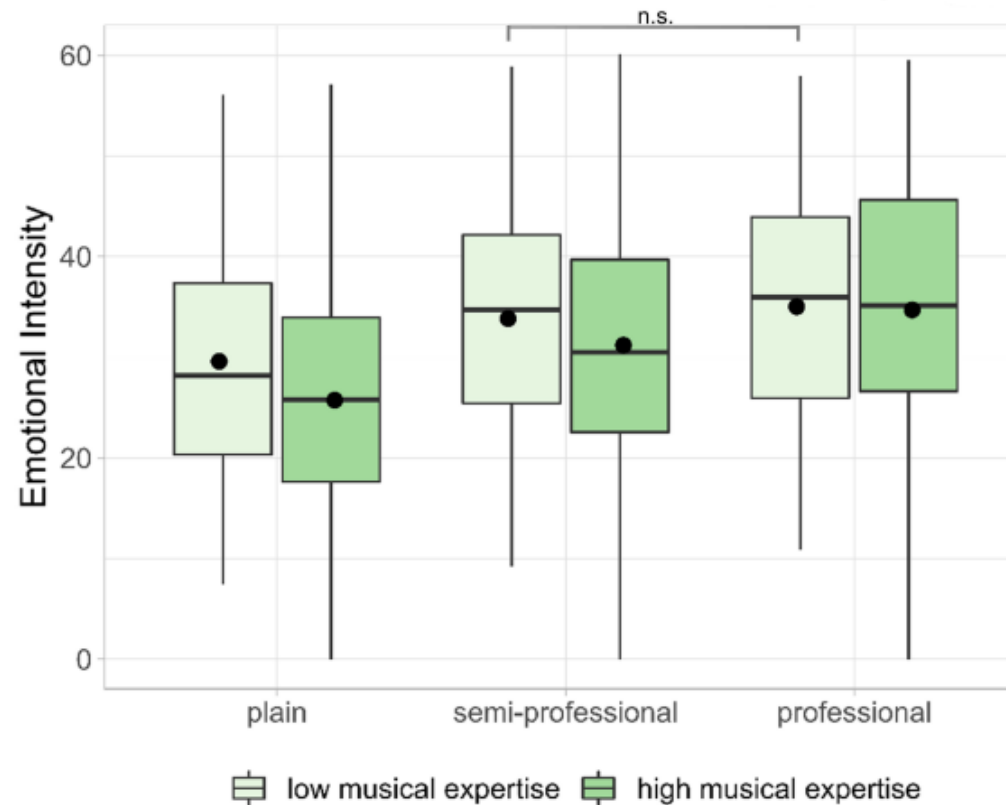
- 4 classical musical pieces in 3 performance quality levels
 - Plain, semi-professional, professional
- Within-subject design
- Measures
 - Music-evoked emotions (GEMS-25)
 - Musical expertise
 - Musical aptitude (Micro-PROMS)
 - Personality: Openness & neuroticism (BFI-K), empathy (SPF)
 - Mood state (PANAS)

PERFORMANCE QUALITY AND MUSIC INDUCED EMOTIONS

Vigl & Zentner (2023)

Predictors of Emotional Intensity:

- Performance Quality (+)
- Positive mood (+)
- Performance Quality * musical expertise

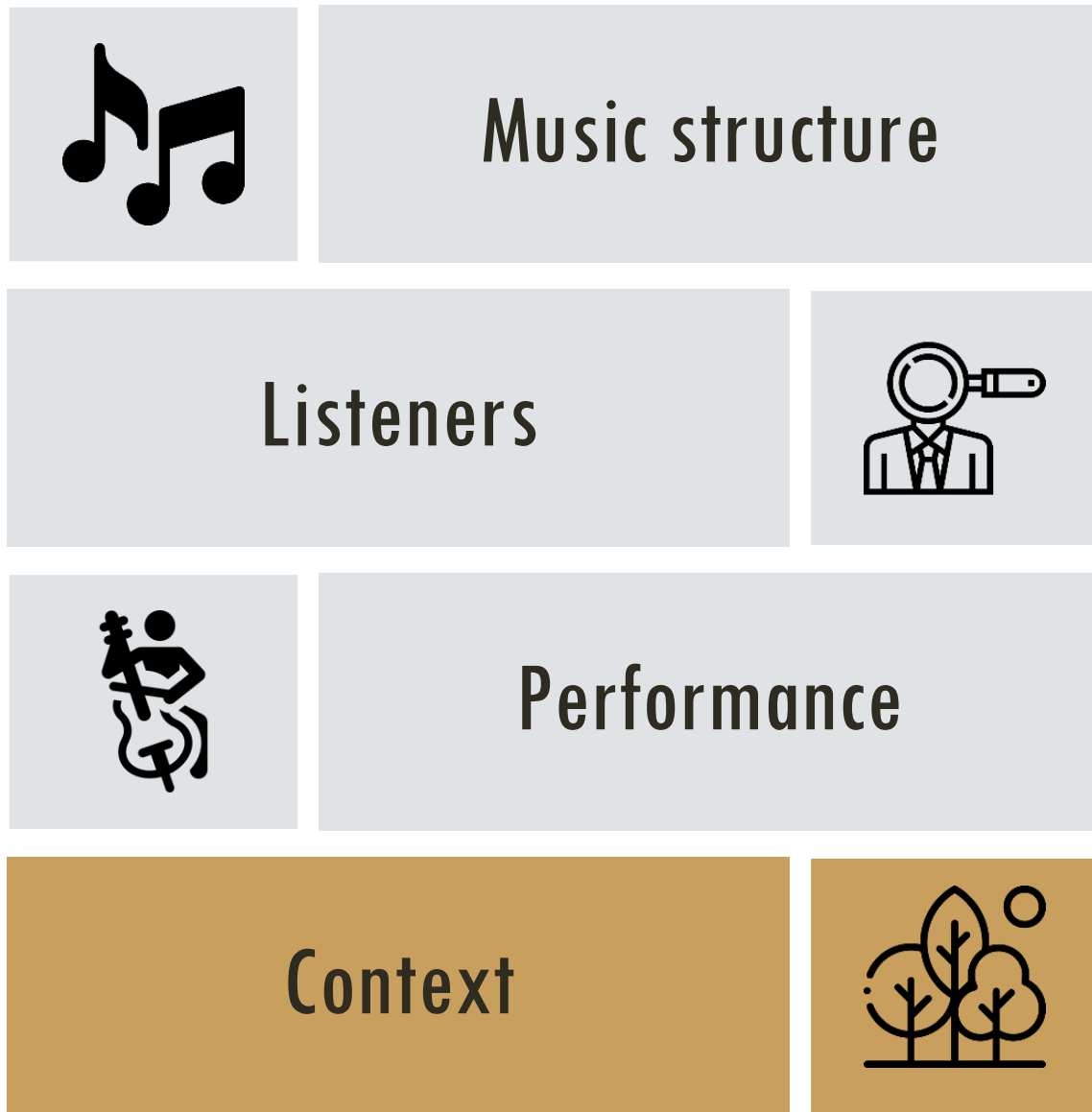


PERFORMANCE QUALITY AND MUSIC INDUCED EMOTIONS

Vigl & Zentner (2023)

In conclusion ...

- Performance quality **matters a lot** when inducing musical emotions, especially among individuals with high musical expertise
- In comparison to listener features, performance quality shows a **stronger influence**



INDUCTION RULE MODEL

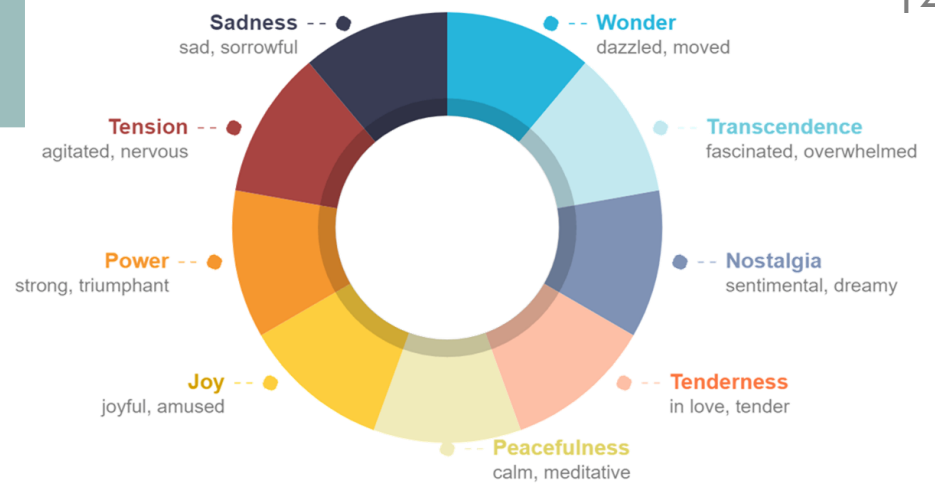
Scherer & Zentner (2001)

- Venue (e.g., concert hall, outdoors, car)
- Situation (concert, wedding, funeral)
- Source of music reproduction

SUMMARY



Music structure



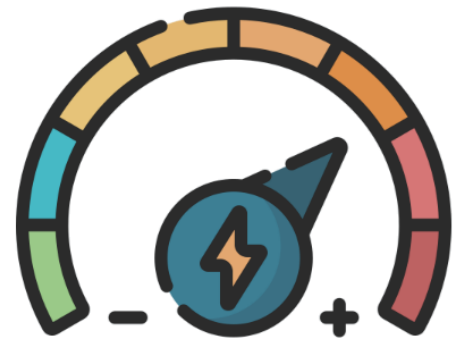
Performance



Context



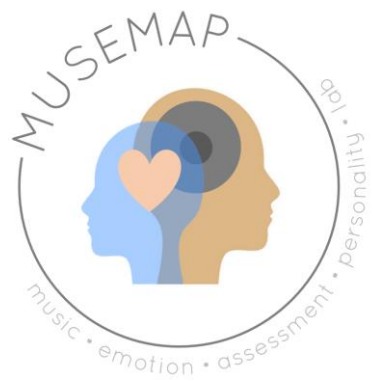
Listeners



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Tokyo 2023



Project webpage



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