

The Effect of Motivation on Students' Preference for Acoustic or iPad Instruments: Comparing Guitars and Gayageums



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Purpose of the Study

- To examine the effect of **motivation** on upper-grade elementary students' **preferences** for **acoustic** or **iPad** instruments
- To determine if the **cultural associations** of the musical instruments affect students' instrument **preferences**

Methods

- A Quasi-Experimental, "Multiple Intervention Within-Subjects Design" (Dooley, 2001, p. 222)



2. Research Questions

- Is there a significant difference in participants' preference for **acoustic** or **iPad versions** of an instrument?
- Is there a significant difference in participants' instrument preference by their **motivation levels** (**high, medium-high, medium-low, or low**)?
- Is there a significant difference in students' instrument preference based on the **instruments' cultural familiarity** (either familiar or unfamiliar)?
- Is there a significant difference in students' instrument preference based on **institutional setting** (either private or public)?
- Is there an **interaction effect** among the independent variables?
- Is there a significant difference between participants' **instrument choice** (acoustic or iPad) and other independent variables?
- What **reasons** do participants provide for their instrument preferences?

3. Why Guitars and Gayageums?

- Both are chordophones (Hornbostel and Sach, 1961)
- Cultural familiarity

Chordophones:
(Hornbostel and Sach, 1961)

One or more strings are stretched between fixed points and played by plucking or scratching the strings



4. Procedure



5. Measurement Tools

- Motivation to Learn a Musical Instrument Scale** (Kang, 2016), modified from MacIntyre, Potter, & Burns, 2013)
- Instrument Preference and Choice Questionnaire**

A. Instrument Preference (Modified from Shehan 1984,

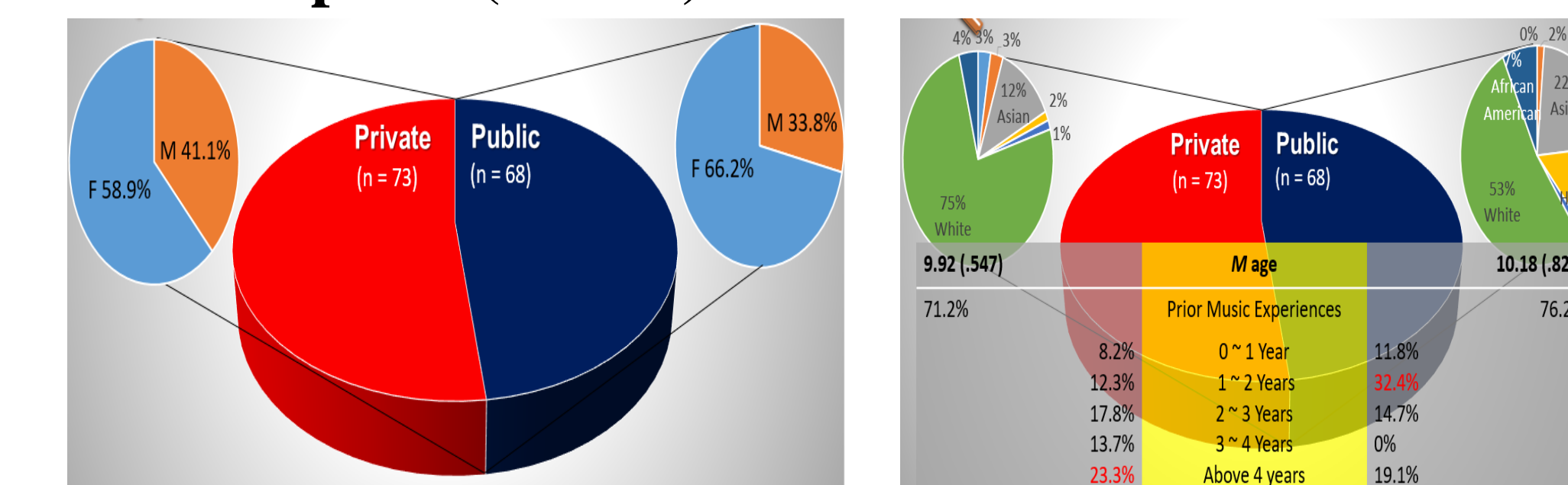
- I like the guitar.
- The sound of the guitar is good.
- Playing the guitar is interesting.
- Playing the guitar is important to me.
- I would like to continue to learn the guitar.
- I worked hard when playing the guitar.

B. Instrument Choice (Demorest & Schultz, 2003)

*** If you had to pick one of the following instruments to learn, would you choose the guitar or the *GarageBand* guitar?
*** What are your reasons?
<Short Answer & Open-Ended Questions>

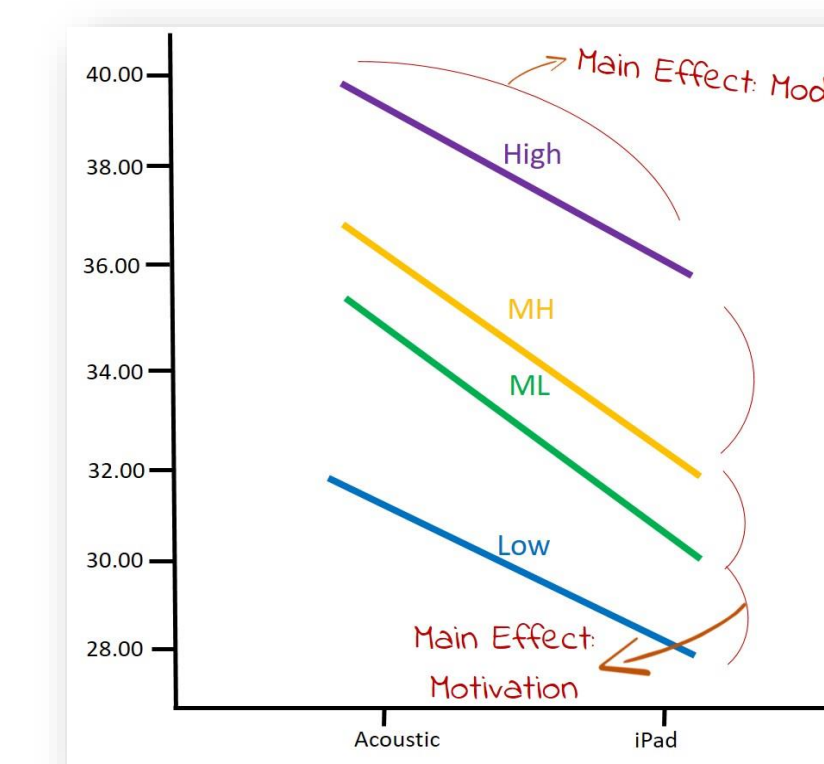
Results

1. Participants (N=141)



2. Instrument Preference

- Two Main Effects:** Mode and Motivation -> **General Pattern**

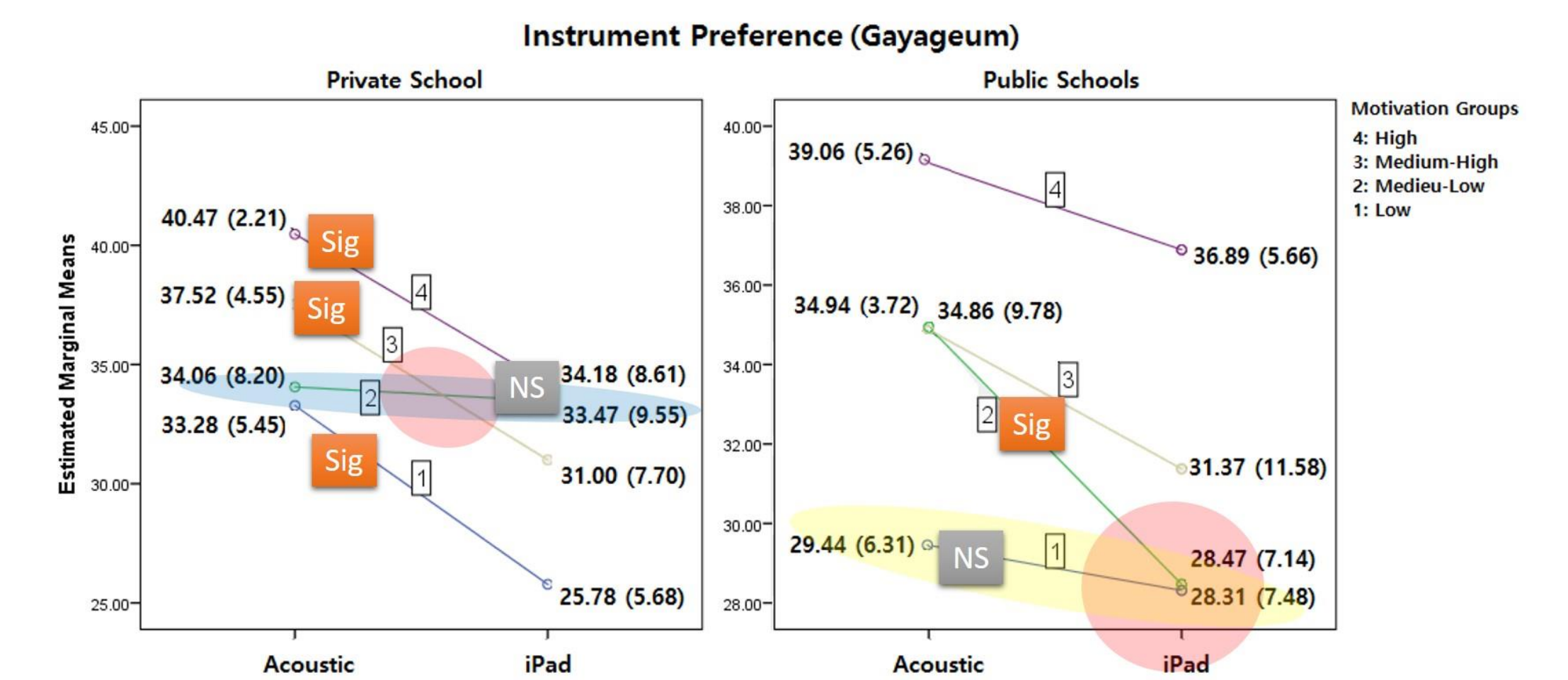
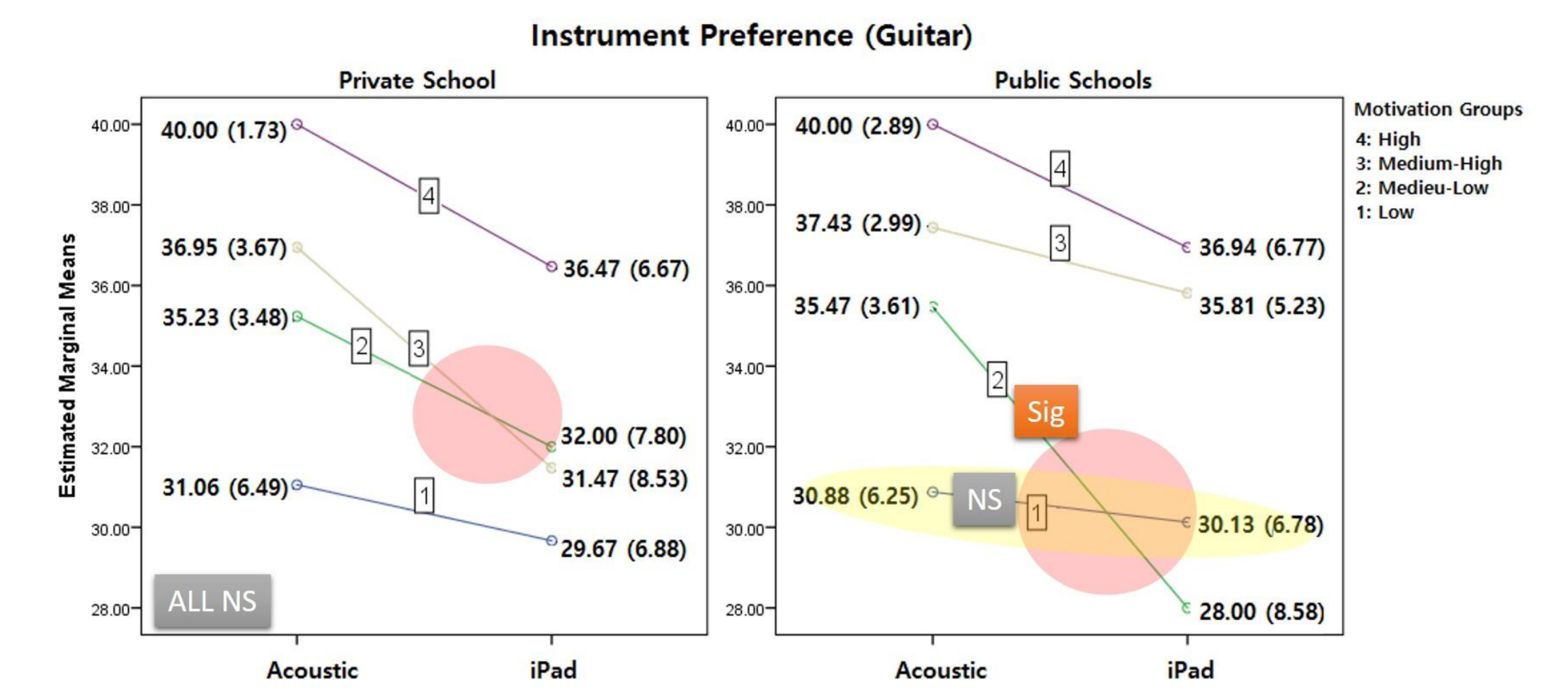


2) Two Interaction Effects: Variations

<1st Interaction>

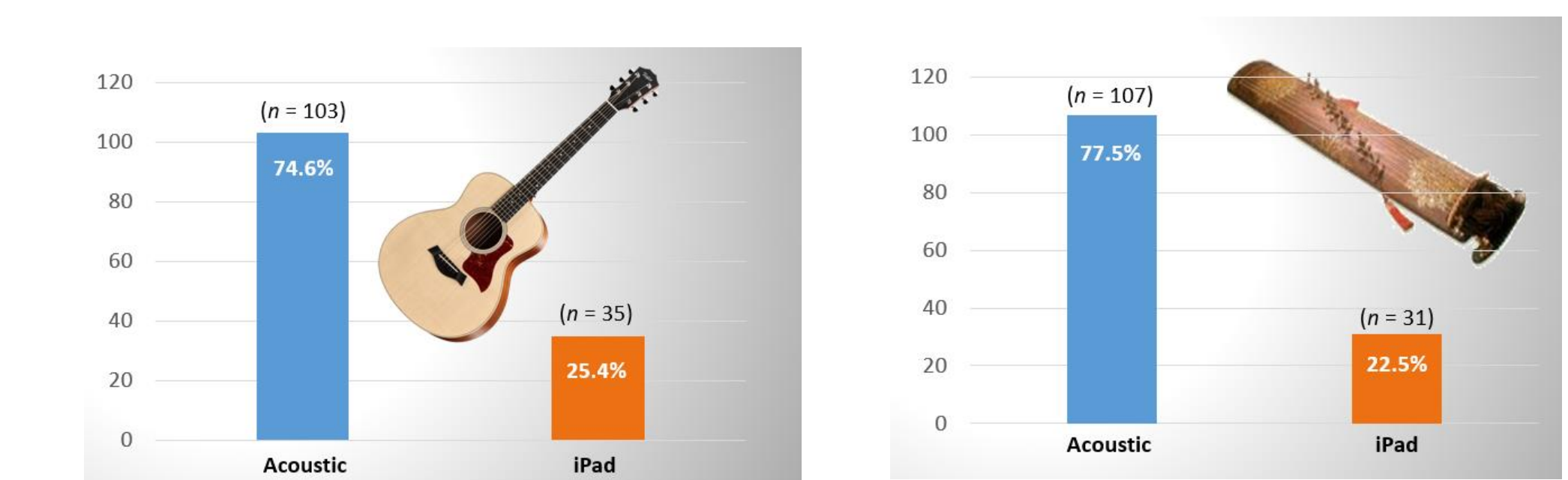


<2nd Interaction>



4. Instrumental Choice

- General Patterns: 75%:25%



- Variations:

