Musical training, bilingualism and executive functions

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Introduction to CS
- Bilingualism
- Musical training
- Task-switching
- Dual-task performance
PARTICIPANTS

• Monolingual musicians (n = 45)
• Monolingual non-musicians (n = 36)
• Bilingual musicians (n = 36)
• Bilingual non-musicians (n = 36)
METHODS

• **Quantity/Identity Task**
  - Block 1 (quantity): how many numbers
  - Block 2 (identity): values of numbers
  - Block 3 (quantity & identity): switching between block ½

• **Krantz paradigm**

• **n-back task – Brain Workshop**
  - [https://www.youtube.com/watch?v=IA_WsNdhCc4](https://www.youtube.com/watch?v=IA_WsNdhCc4)
RESULTS

Long-term musical training

Task-switching ability & dual-task performance

Monolinguals  =  Bilinguals
Thank you for your attention 😊

Reference: