



**Grouping Music  
based on  
Brain Wave Patterns**

# Research Question

*Is a computer capable of grouping various kinds of music based on brain wave pattern similarities found when listening to the individual songs?*



# Experimental Set-Up

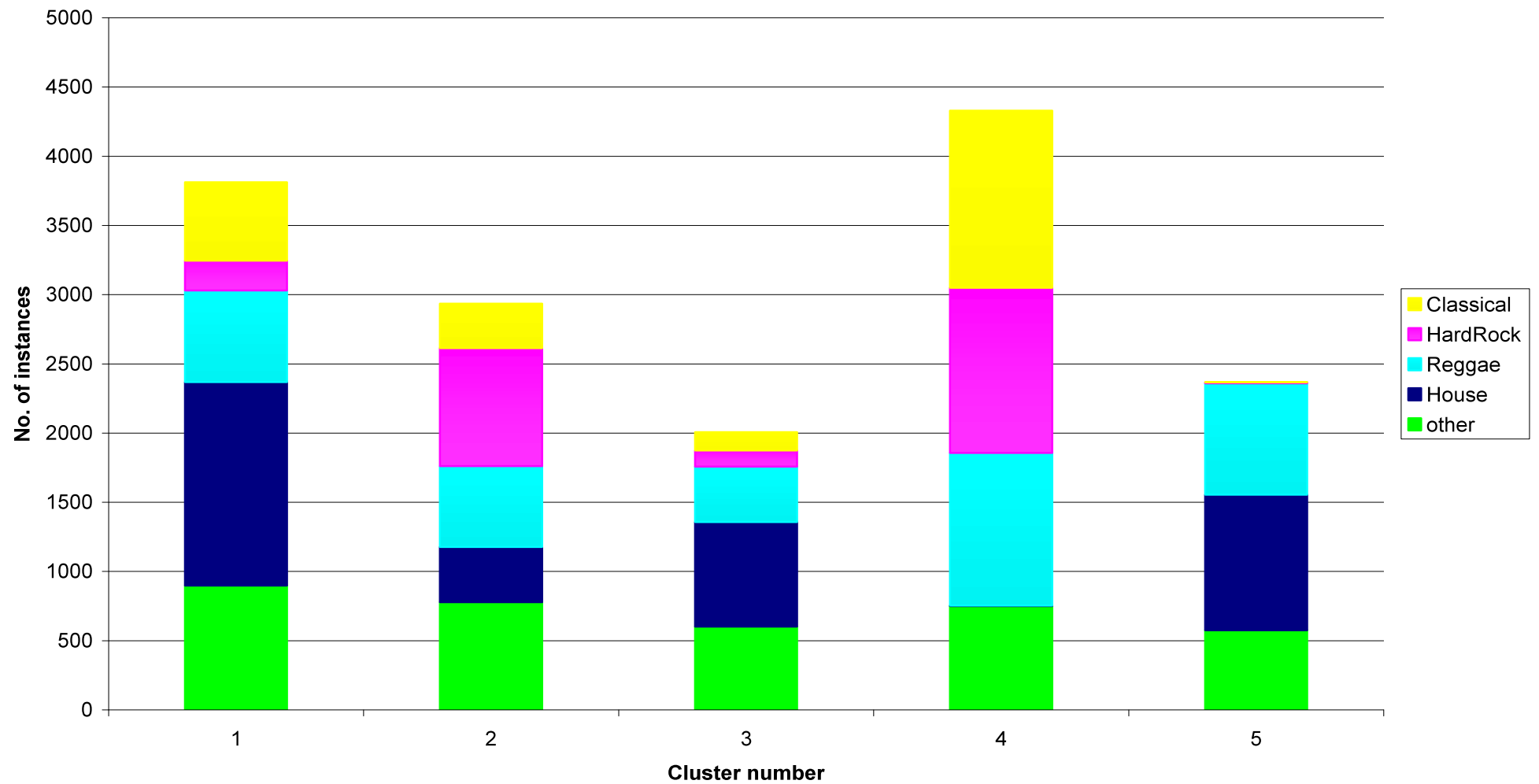
- EEG headsets and belonging software
  - Neurovault & Weka
- 3 test subjects
  - From our own group, as no bias expected
  - All female to exculde possible gender differences
- Music as stimuli
  - 4 different genres with 4 songs each
    - 2 known; 2 unknown
  - Effect on certain emotions

# The PMC



# Results

Graph to show instances per genre in each cluster



# Conclusion

- It is possible to group music according to brain wave patterns
- Very individual process
- More research and better technology needed

