Relating music and images is a challenging topic that has been a subject of interest for centuries. Our project attempts to provide new insight into how colors invoke certain emotions and how those emotions can be translated into music. The final product is an algorithm that successfully converts images to music by using a more sophisticated analysis than some of the existing attempts in the field.

- Additional layer of meaning to pictures
- Inspiration for musicians
- Fun to play with
- Emerging, interesting and not fully understood topic
- Mobile app

A picture is provided.
- Focal visual analysis is performed to extract the objects that people see first.
- Objects are connected in a graph.
- The "chroma" (emotion) of each object is evaluated and a chord progression is constructed.
- Music is played!

Our algorithm was competed against two other popular algorithms – direct mapping and chromatic analysis. Using Amazon’s Mechanical Turk, anonymous users provided feedback on a scale from 1 to 10 which algorithm in their opinion performed better than the others. From the responses collected, our version performed roughly better than the other two.

- Successfully joined the emerging research on the topic
- Proved that focal analysis is better than linear or chromatic
- The mobile application is fun to play with!