Intro to Music

- Music
  - The art of sound generation, such that a pattern of tones is created which may elicit an emotional response from the conditioned listener.
    - Conditioning: psychological programming of an individual's response to a signal (sensorial, informational, or social)
    - The listener's environmental history will determine what is considered music vs. mere noise
- Transcription
  - Notation of Western Music
    - Musical patterns are transcribed on a staff, (pl. staves)
      - Five parallel lines on which symbols and text is placed to indicate the primitive elements of music
        - Timing
          - The duration and spacing of tone generation
        - Pitch
          - One of twelve basic tones and their variants
          - Sound frequency
            - Measured in hertz (Hz)
              - Number of sinusoidal cycles per second
              - Example: Concert A = 440 Hz
        - Timbre
          - The subjective quality of the tone (bright, sweet, harsh, powerful)
        - Expression
          - The method of sound execution (sudden attacks, or sustained and connected tones)

- The notation is written in such a way that the basic elements of music are presented in as a exact manner as the system will allow
  - Melody
    - A recognizable tonal pattern derived from the the interaction of pitch and rhythm
  - Harmony
    - Multi-tonal interaction interpreted according to the science of acoustics, and subjective experience
  - Rhythm
    - Predictable timing of sound

Sources and Links

Online Piano: https://www.onlinepianist.com/virtual-piano

Sheet Music: https://www.blanksheetmusic.net

Online Scores: https://imslp.org/wiki/Main_Page

Pitch Frequency Chart:
https://pages.mtu.edu/~suits/notefreqs.html

Github Music Repository:
https://github.com/NPTprogrammer/MusicResources