

# Sprint 2 - Week 3 Agenda

Tuesday, October 06, 2015 4:46 PM

## Agenda

- Installation and setup
  - Everyone has a version of Linux that works for Essentia?
  - Who Installed Essentia?
  - Does everyone have and know how to use GitHub?
- Progress Report (5 minutes to share progress)
- Update on Assignments
  - Tag Reader - Matt, Dillon
    - Essentia or eyed3?
  - Bpm extractor - Boston, Austin, Bob
    - Problems
  - Learn how to create functions that pass back information within python. Make current bpm and tag reading into a function so that it is easy to move and integrate
- Review Requirements
  - Organize into categories
- New Assignments
  - Create a function that can rename and mp3 file. This will use the information returned from the tag information extractor function (this information will then be passed into the renaming function) and construct a filename as specified in the requirements.
    - One thing to consider is that once the filename is changed, the other algorithms will have to know the updated file path in order to located the file correctly
    - The function may have to pass back the new filepath after renaming the file in order to update values in the main function accordingly
  - Create a function that can write an array of strings to a space delaminated text document
    - Essentially, we will store extracted information into an array and then at the end write all of this information to a text doc
  - Create a function that can find the key of the song
  - Create a function that can find the loudness of the song
    - Is this relevant?
  - Create a function that can find the amount of Bass of a song
  - Create a funiton that can detect .mp3 file extension and report error if file is not the correct type
- Effort Estimations
  - Timeleft
    - Tag reader
    - BPM extractor
  - Time totals
    - Rename mp3 file
    - Write to file
    - Find the key
    - Find the loudness
    - Find the amount of bass
- TODO items:
  - Submit TimeTracks on Friday
  - Start Using GitHub

- Make bpm or tag reader into fully functional , easy to implement functions that take parameters and pass back values
- Start the new assignments
- Update trello! Add yourself to the projects you are working on

**SEE NEXT PAGE AS WELL**

# Sprint 2 - Week 3 Meeting Notes

Tuesday, October 06, 2015 4:46 PM

## Agenda

- Installation and setup
  - Everyone has a version of Linux that works for Essentia?
    - Bob still needs linux
  - Who Installed Essentia?
    - Dillion cant get it working
    - Bob doesn't have linux or essentia
  - Does everyone have and know how to use GitHub?
    - No
      - Dillon
      - Matt
    - Yes
      - Austin
      - Bob
      - Boston
- Progress Report (5 minutes to share progress)
  - Matt
    - Essentia is working
    - Researching how to print to text file
  - Dillon
    - Got eyeD3 to read and write tag info
    - Can't get Essentia to install
    - Has had practice with python
  - Austin
    - Has worked with essentia algorithms
  - Bob
    - Working on getting essentia
    - Is using raspian
    - Will install ubuntu 14.10
- Update on Assignments
  - Tag Reader - Matt, Dillon
    - Essentia or eyed3? - Use Essentia. TODO: make script info function
  - Bpm extractor - Boston, Austin, Bob -
    - Problems - Not all songs work. Use Average BPM instead
  - Learn how to create functions that pass back information within python. Make current bpm and tag reading into a function so that it is easy to move and integrate
- Review Requirements
  - Organize into categories - Made viewable(not editable) for my subgroup
- New Assignments
  - Create a function that can rename and mp3 file. This will use the information returned from the tag information extractor function (this information will then be passed into the renaming function) and construct a filename as specified in the requirements.
    - One thing to consider is that once the filename is changed, the other algorithms will have to know the updated file path in order to located the file correctly
    - The function may have to pass back the new filepath after renaming the file in order to update values in the main function accordingly
    - Boston is going to take this one

- Concerns
    - Filename should not exceed 255 characters
    - Non acceptable characters
  - Create a function that can write an array of strings to a space delimited text document
    - Essentially, we will store extracted information into an array and then at the end write all of this information to a text doc
    - Dillon and Matt are taking this
  - Create a function that can find the key of the song
    - Austin, Matt will do this
    - Input is a pitch class profile
  - Create a function that can find the loudness of the song
    - Austin Did this already
    - Is this relevant? - yes. Keeping it
  - Create a function that can find the amount of Bass of a song
    - Bob and Dillon will look into it
  - Create a function that can detect .mp3 file extension and report error if file is not the correct type
    - Matt will look into this
    - AudioLoader() function imports extension name
- Effort Estimations
  - Timeleft
    - Tag reader - 4 hrs
    - BPM extractor - 1 hr
  - Time totals
    - Rename mp3 file - 3 hrs
    - Write to file - 5 hrs
    - Find the key - 1 hr
    - Find the loudness - already done
    - Find the amount of bass -
      - Low Pass
      - Envelope
      - Measure the average amount of time past a certain threshold
- TODO items:
  - Submit TimeTracks on Friday - add that to google folder
  - Start Using GitHub
  - Make bpm or tag reader into fully functional , easy to implement functions that take parameters and pass back values
  - Start the new assignments
  - Update trello! Add yourself to the projects you are working on