

Contact Sheets

- About
 - The Contact Sheet adapter is a python based tool that takes in a video and create a PNG image of contact sheets. Frames can be extracted based on either a fixed quantity, based on a given time interval (second), shot detection, or facial recognition
- Source Code
 - galaxy/tools/video_tools/contact_sheets.xml
Tool configuration detailing tool execution, input file, output file, and labeling.
 - galaxy/tools/video_tools/contact_sheets.py
Python script to handle the input parameters and call the code to create the contact sheet.
 - galaxy/tools/amp_json_schema/contact_sheet.py
Responsible for creation of the contact sheet
- Dependencies
 - ffmpeg-python
- Installation:
 - \$ pip install ffmpeg-python
- Running the tool
 - The tool can be invoked from Galaxy UI as other tools. User needs to supply input data in the form of standardized speech to text output
- Parameters
 - \$input_file: Video input file
 - \$type: Contact sheet type. Controls the interval at which the images are drawn from frames.
 - time: Extract frames by time period
 - quantity: Extract a fixed number of frames
 - shot: Extract frames based on shot detection
 - facial: Extract frames based on facial recognition
 - amp_shots: AMP Shot JSON to create frames from
 - amp_facial_recognition: AMP Facial Recognition JSON to create frames from
 - frame_seconds: Interval in seconds to space frames
 - frame_quantity: Total number of frames to extract
 - number_of_columns: Number of columns in the contact sheet
 - margin: Margin around each frame
 - padding: Padding around each frame
- Output
 - Image file (PNG) containing the image at a specified interval.