PySceneDetect

Contents

Chapter 1. PySceneDetect Intro

What is PySceneDetect?

> "PySceneDetect is a command-line tool from Brandon Castellano to detect scene changes in a video file and carry out tasks based on that data."

Example

> "You might consider using PySceneDetect e.g. if you wanted to:
>
> - re-cut a video where you only have the final output, not the footage or EDL/XMLs etc.
> - export an image for each scene as a storyboarding study
>
> "

You can find the Github repository for PySceneDetect on this page: https://github.com/Breakthrough/PySceneDetect

1. **Prerequisites**

Larger dependencies:

- Python (follow the instructions at: https://www.python.org)
- pip (see here: https://pip.pypa.io/en/stable/installation/)

Install the rest of the dependencies via pip:

- Numpy (python package):`pip install numpy`
- Click: `pip install Click`
- tqdm: `pip install tqdm`
- appdirs: `pip install appdirs`
- PyAV: `pip install av`
- OpenCV: `pip install opencv-python`
- ffmpeg: `pip install ffmpeg`
- mkvtoolnix: `pip install pymkv`

Related information

PySceneDetect Intro *(on page 3)*

2. Installing PySceneDetect *(on page 4)*

3. First test of PySceneDetect *(on page 4)*

2. Installing PySceneDetect

Make sure that you have completed installing the prerequisites.1. Prerequisites *(on page 3)*

- Proceed with installing PySceneDetect via pip:`pip install --upgrade scenedetect`

Related information

1. Prerequisites *(on page 3)*

3. First test of PySceneDetect *(on page 4)*

3. **First test of PySceneDetect**

First test of PySceneDetect

The PySceneDetect website offers a link to a sample James Bond file with which to test PySceneDetect. Get the file from here: https://scenedetect.com/en/latest/examples/usage-example/

In your terminal, navigate to where you have an mp4 video file:

- `cd [folder_name]` (you can also type in 'cd' and drag the folder in the terminal window and hit 'Enter')
- type the following line in your terminal: `scenedetect --input goldeneye.mp4 detect-adaptive list-scenes save-images`

Expected Behaviour

- using the above command, the folder should be populated with a CSV file and several images from the video.
- if the result differs from what you desired, tweak the parametres following the instructions on this page.

Related information

1. Prerequisites *(on page 3)*
2. Installing PySceneDetect *(on page 4)*