## Installing (with Virtual environment):

```
sudo pip install virtualenv      # This may already be installed
virtualenv -p python3 .env       # Create a virtual environment (python3)
source .env/bin/activate         # Activate the virtual environment
pip install -r requirements.txt  # Install dependencies
# Work with the tool for a while ...
deactivate                       # Exit the virtual environment
```

## Quick test:

To test the tool with sample videos (in this case videos from Nancy Pelosi) use:

*python main.py --server -d ../baseNancy*

## Preprocessing:

*python main.py --preprocessing -i FOLDER_VIDEOS -o FOLDER_OUT -s NUMBER_SCENES -n NUMBER_VIDEOS --verbose*

FOLDER_VIDEOS: a folder with videos to be processed (only videos)
FOLDER_OUT: folder to save data used by server
NUMBER_SCENES: number of scenes considered when extracting attributes (number of scenes that will be shown by the interface). Default value is 10.
NUMBER_VIDEOS: maximum amount of videos that will be shown in exploratory mode (must be less or equal than the total amount of videos).

## Server:

*python main.py --server -p PORT -d FOLDER_DATA*

PORT: server port. Default value is 12345.
FOLDER_DATA: folder with preprocessed data videos (same as FOLDER_OUT)

## Example:

Preprocessing videos in "/home/salathiel/test" and save data in "/home/salathiel/testOut" with 10 scenes each video and showing a maximum of 5 videos in exploratory mode:

*python main.py --preprocessing -i /home/salathiel/test -o /home/salathiel/testOut -s 10 -n 5 --verbose*

Using the data from preprocessing to start the server at port 12345:

*python main.py --server -p 12345 -d* /home/salathiel/testOut