

DaVinci Resolve Colour Grade Current or all Timelines Script

This Python script automates the application of a colour grade to all clips in the current timeline or to all timelines in a DaVinci Resolve project. The script interacts with DaVinci Resolve's API to ensure efficient and consistent grade application. Below you will find a detailed summary of the functions and use of the script.

Prerequisites

- DaVinci Resolve must be open before you run this script.
- Make sure that the grading file "drx" is accessible and the correct path is known.

Features

1. Apply the grade to timeline elements: The script applies a specific grade to all elements in a video track of a timeline.
2. Apply grade to all timelines: It can apply the grade to all timelines in the project.
3. User prompts: The Users is prompted to specify the path of the grading file and to choose whether to apply the grade to the current timeline or to all timelines.

Script workflow

1. DaVinci Resolve initialisation:
 - The script initialises the API connection with DaVinci Resolve.
 - Retrieves the project manager and the current project.
2. Load project:
 - Checks whether a project is loaded. If not, the script is terminated.
3. Handle timeline:
 - Retrieves the current timeline or creates a new empty timeline if none exists.
 - Defines the current timeline for further operations.
4. User input:
 - Prompts the user to enter the path to the grade file ``drx``.
 - Checks whether the specified sheet music file exists.
5. Grade application:
 - Prompts the user to choose between applying the grade to the current timeline or to all timelines.
 - Applies the note to the specified range (current or all timelines).

Instructions for use

1. Make sure DaVinci Resolve is open:
 - Start DaVinci Resolve before running the script.
2. Run the script:
 - Execute the script in a Python environment.
3. Follow the prompts:
 - Enter the path to the "drx" grade file.
 - Select whether the grade should be applied to the current timeline or to all timelines.
4. Finish:
 - The script will apply the grade and provide feedback on the success of the operation.

Example of execution

1. Initialise DaVinci Resolve:

- Make sure that DaVinci Resolve is open and a project is loaded.

2. Run the script:

```
```bash
python apply_grade.py
```
```

3. Enter the path of the grade file:

```
```
Enter the path to the .drx file: /path/to/your/grade.drx
```
```

4. Select the application area:

```
```
Do you want to apply the grade to the current timeline or to all timelines? (C/A): a
```
```

5. Result:

```
```
The grade was successfully applied to all clips in all timelines.
```
```

Script details

Functions

- `apply_grade_to_all_timeline_items(timeline, grade_mode, grade_path):`
 - Applies the specified grade to all items in the video track of the specified timeline.
- `apply_grade_to_all_timelines(project, grade_mode, grade_path):`
 - Iterates through all timelines in the project and applies the grade to each one.

Main execution sequence

- DaVinci Resolve initialisation:
 - Establishes a connection to DaVinci Resolve and calls up the current project.
- Project and timeline handling:
 - Ensures that a timeline is available for grade application.
- User Interaction:
 - Prompts for the `.drx` file path and checks its existence.
 - Asks whether the note should be applied to the current timeline or to all timelines.
- Grade Application:
 - Calls the appropriate function to apply the grade based on user's choice.

Conclusion

This script provides an efficient way to apply colour grading across time in a DaVinci Resolve project to save time and ensure consistency. It processes the user input and checks the necessary conditions before performing the colour adjustment. This makes it robust and user-friendly.