Usability testing on Kdenlive and OpenShot





Tuğrul YATAĞAN | 040100117

Emre GÖKREM | 040100124

Gökberk GÜLGÜN | 040100135

Motivation

- Multimedia is common area for information age
- Companies need employees with knowledge in video editing
- There are many different video editing tools
- Selection between video editing tools is HARD!

Purpose

- ■Aim of the study is usability of most popular open source video editing tools OpenShot and Kdenive
- Reasons for choosing OpenShot and Kdenlive
 - Very popular
 - **■** Large community
 - **■**Free software

OpenShot

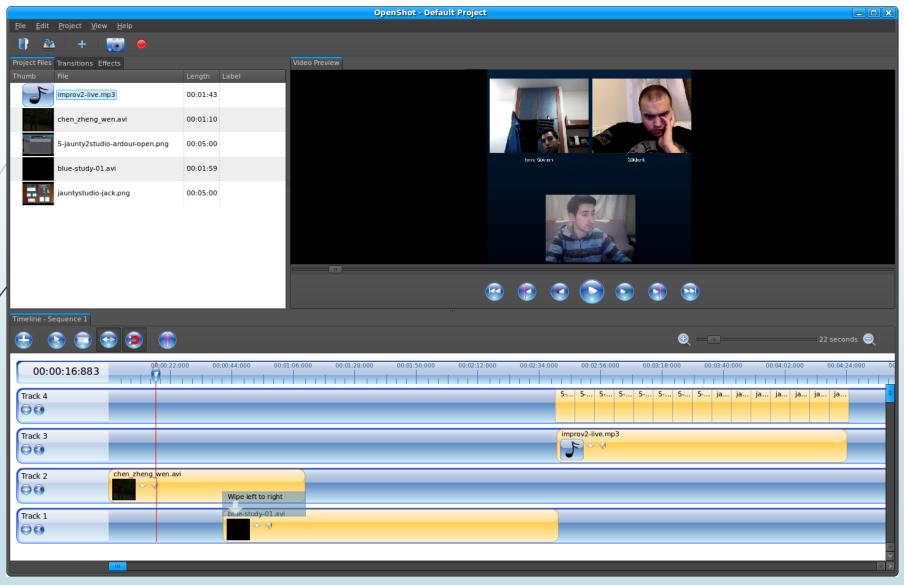


Figure 1: OpenShot Screenshot

Kdenlive

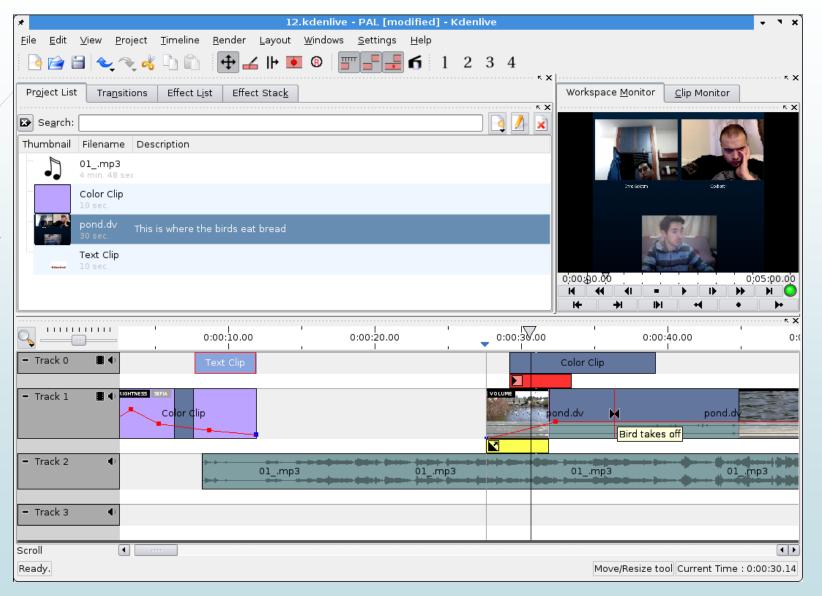


Figure 2: Kdenlive Screenshot

Tasks

Requirement analysis

Planning of processes

Selection of participants

Defining methods

Participant feedback

Task execution

Software survey

Progress report

Preparation of document

Presentation

Final report

Methods

- **■**Software survey
- **■** Task execution
- **■** Participant feedback

Software Survey

- **■**20 participant
- **■** Participant criteria:
 - Experience with video editing
 - **■**Expertise level
 - Used OpenShot or Kdenlive
 - Computer engineering student

Software Survey – Weights

Survey Activity Weights on Overall (%)

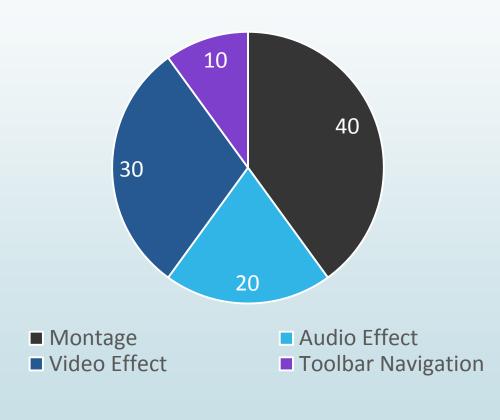
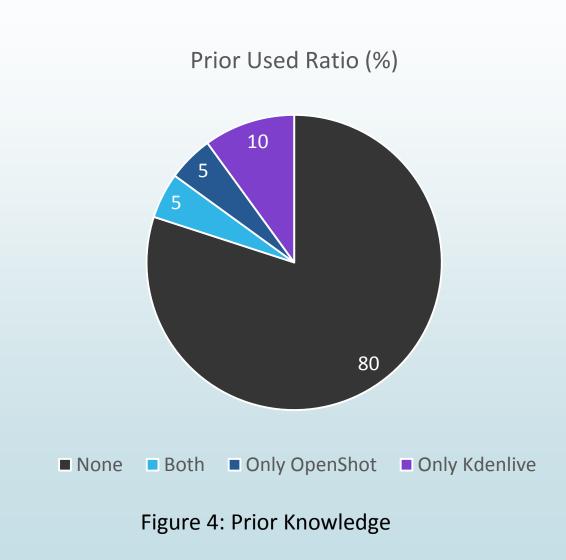


Figure 3: Survey Activity Weights

Software Survey – Prior Knowledge

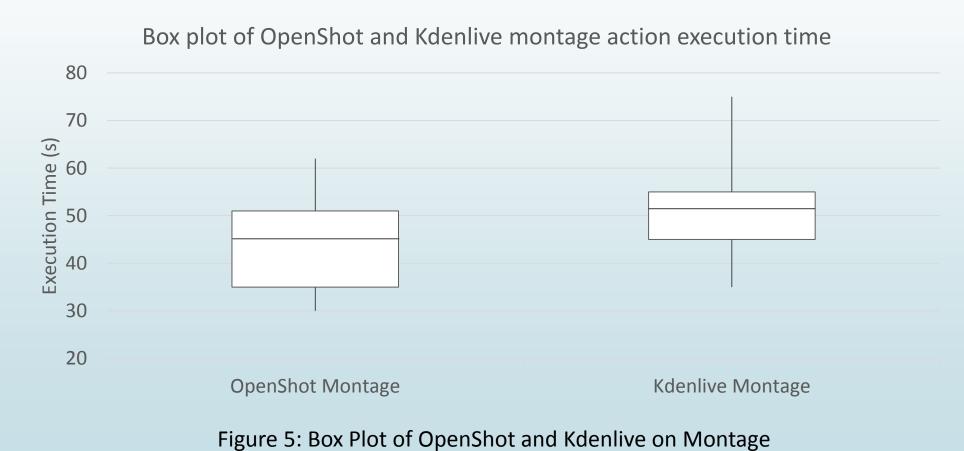


Task Execution

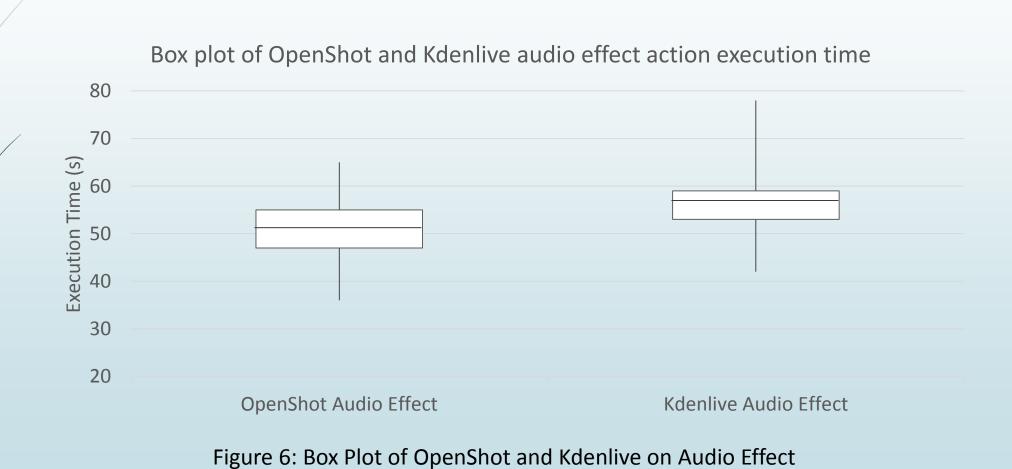
- Quantitative time based effort analysis
- **■**Considered criteria:
 - Montage (Cut, Copy, Paste)
 - **■** Video Effect
 - **■** Audio Effect
 - **■**Toolbar Navigation

Task Execution – Montage

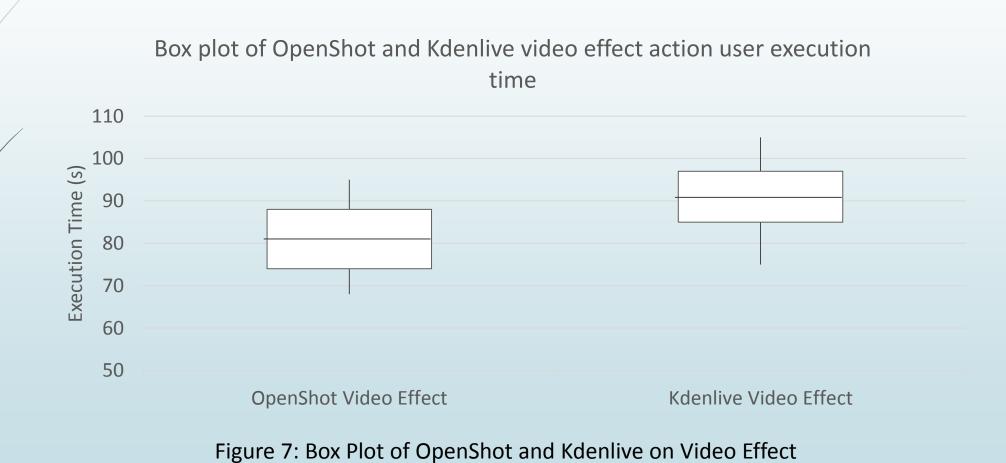
Montage actions: Cut, Copy, Paste



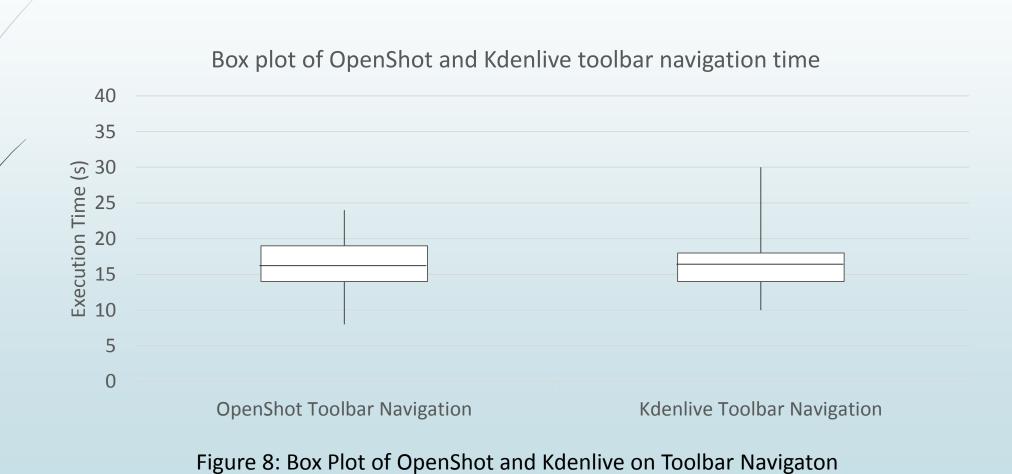
Task Execution – Audio Effect



Task Execution – Video Effect



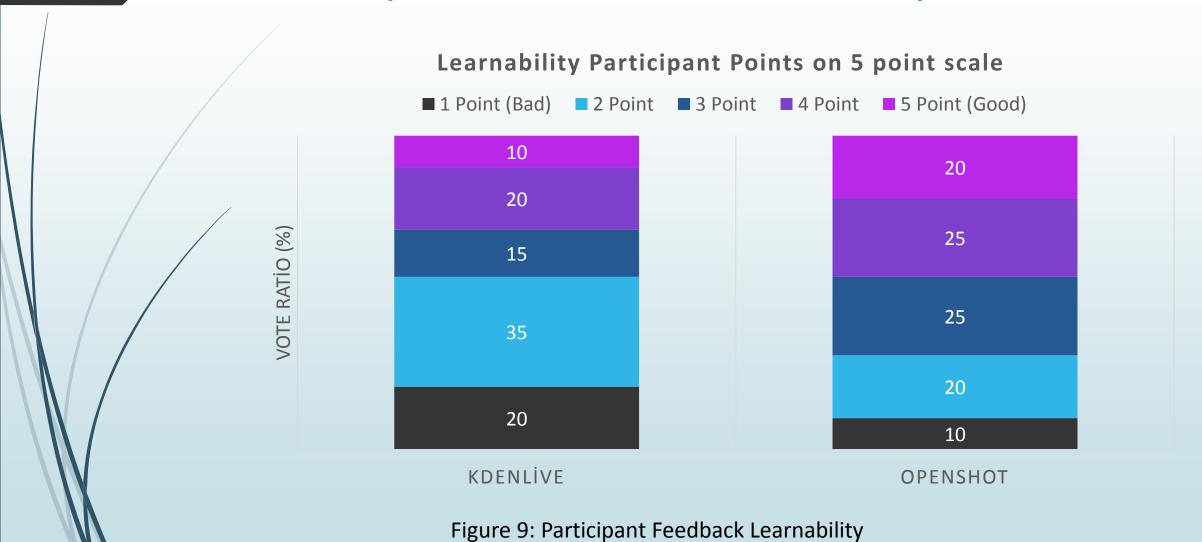
Task Execution – Toolbar Navigation



Participant Feedback

- **■**Considered criteria:
 - **■**Learnability
 - **►**Flexibility
 - **■**Overall
 - Compatibility
 - Consistency
 - **■**User guidance

Participant Feedback - Learnability



Participant Feedback - Flexibility

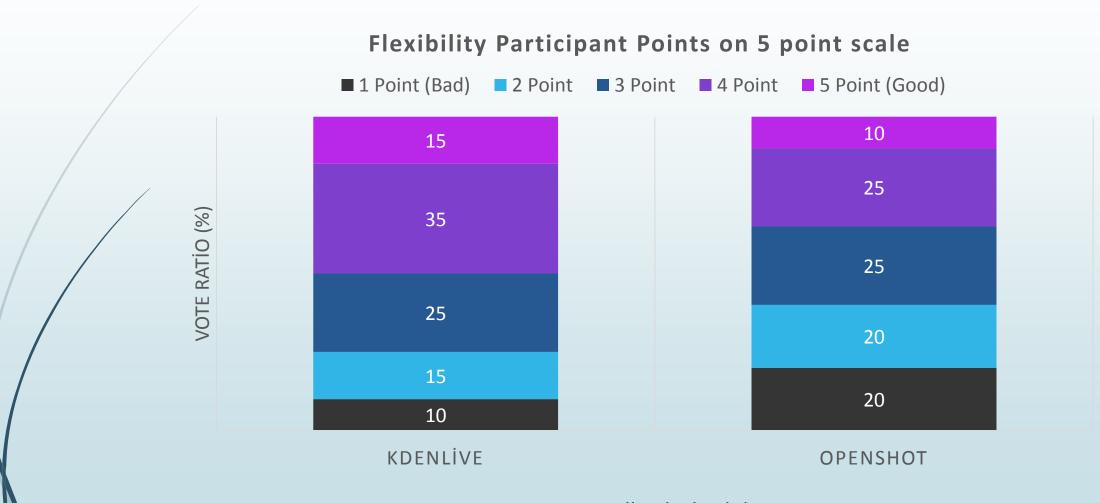
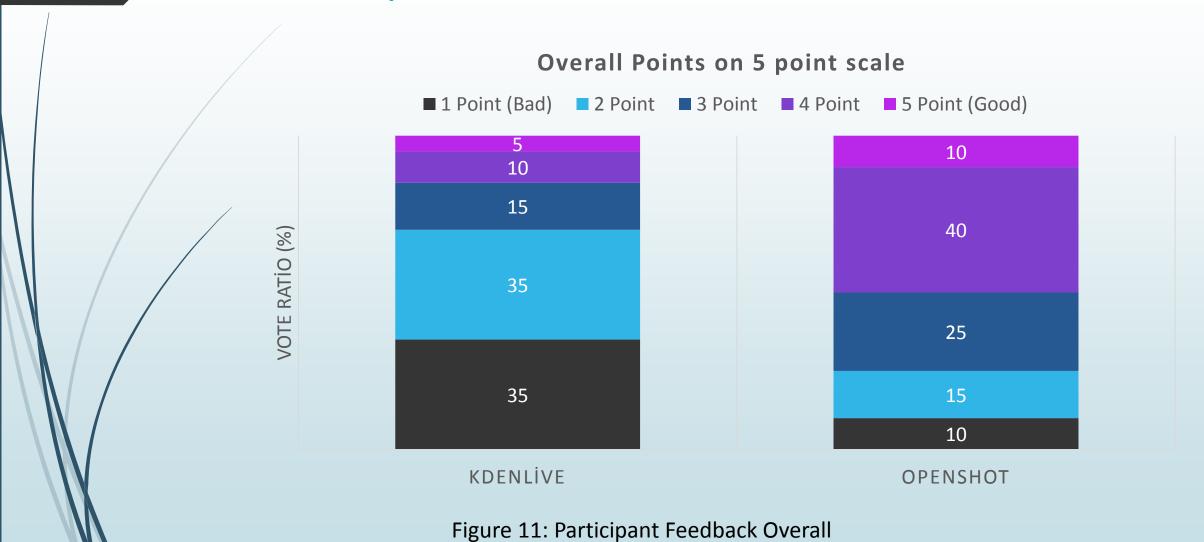
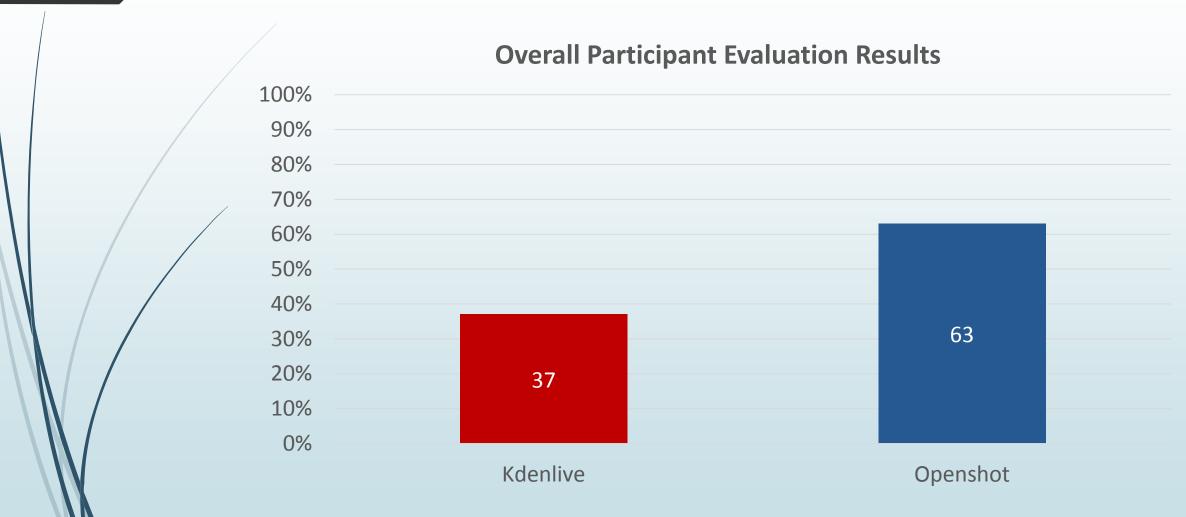


Figure 10: Participant Feedback Flexibility

Participant Feedback - Overall



Final Analysis & Results and Final Evaluation



Conclusion

- We have done software survey, task execution and participant feedback
- In task execution and participant feedback, OpenShot performed better overall
- Openshot has an easy to use, learnable but Kdenlive has flexible interface
- For easy and fast development, we recommend Openshot!

THANK YOU FOR LISTENING!

ANY QUESTIONS?

Referances

- ► H. R. Hartson, T. S. Andre, and R. C. Williges, "Criteria For Evaluating Usability Evaluation Methods," Int. J. Hum.-Comput. Interact., vol. 13, no. 4, pp. 373–410, 2001
- OpenShot Features Web Page, OpenShot, http://www.openshot.org/features/
- Kdenlive Features Web Page, Kdenlive, https://kdenlive.org/features