

Location Based Video Flipping

[lə(ʊ) 'keɪʃən beɪst 'vɪdɪəʊ 'flɪpɪŋ] is hopping through videos on a geographical map while maintaining the ease-of-use of a remote control

SELECTING VIDEO CONTENT

LEAN BACK SETTINGS

Continuous, one-dimensional flipping through subsequent video clips that are ordered in lists
regular HbbTV remote control

LEAN FORWARD SETTINGS

Discrete selection of video clips that are positioned on maps according to their geographic location
mouse and cursor, finger and tablet

USER CENTERED DESIGN PROCESS

QUESTIONNAIRE

- Determine user expectations
- Generate insight
- Find participants for workshop
- 26 people, aged 19 to 76 years

DESIGN WORKSHOP: Unfocus-Group

- Four contrasting participants of questionnaire
- One interactive TV-solutions designer
- One HbbTV application developer

DESIGN WORKSHOP: Areas Of Inspiration

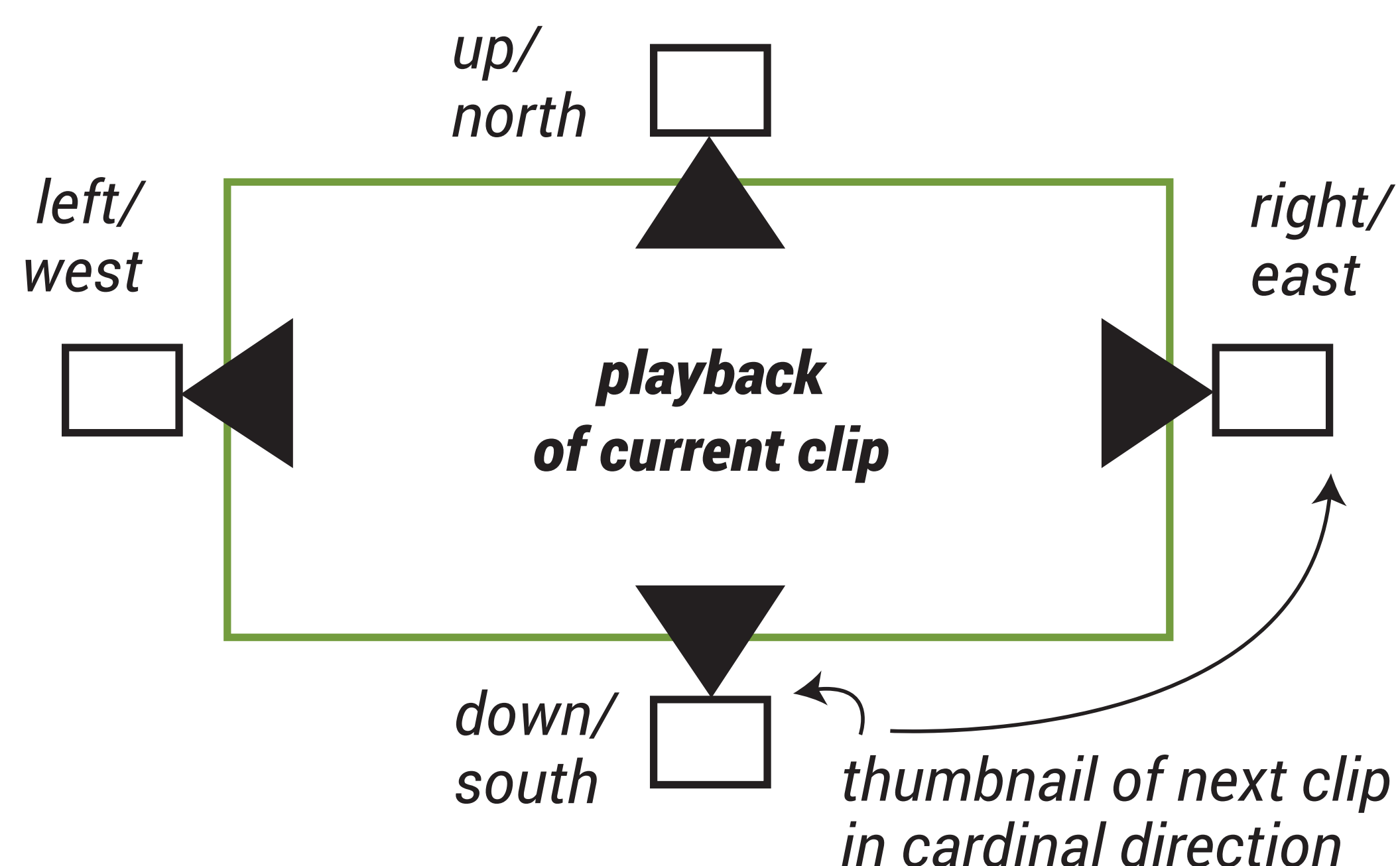
- Questionnaires findings
- Variety of remote controls
- Information visualization

NAVIGATION SCHEME

FAST BROWSING AND FLIPPING THROUGH VIDEO CLIPS WITHIN THE FOUR CARDINAL DIRECTIONS OF THEIR GEOGRAPHICAL RELATION TO EACH OTHER

- Video in middle is nearest to users geographical position
- Four thumbnails are positioned in the cardinal directions relational to the user's position, they can be reached with the four way keys on the remote

Selecting a direction is like steering in the corresponding cardinal direction.



INTERACTIVE PROTOTYPE



EVALUATION

QUALITATIVE EVALUATION

- Eleven users, previous experience with Smart TV applications
- Observation study without feedback from the supervisor
- Real life conditions in a living room
- DVB-S set-top-box, 42-inch TV & HbbTV remote

FINDINGS

- Participants used the four way navigation buttons intuitively to access and watch location based video clips
- Three users did not identify the cardinal directions or the spatial position of the thumbnails

FUTURE IMPROVEMENTS

- Function for selecting locations that are different from the users' initial location
- More prominent visualization of the connection between: *cardinal direction / on screen triangle / four way navigation*



TECHNISCHE UNIVERSITÄT
CHEMNITZ

CHAIR
MEDIA INFORMATICS



Arne Berger, Thomas Fritzsche, Michael Heidt,
Stefanie Müller, Maximilian Eibl

Technische Universität Chemnitz
Department of Computer Science · Chair Media Informatics
Strasse der Nationen 62
09111 Chemnitz · Germany

WWW.TU-CHEMNITZ.DE/INFORMATIK/MEDIENINFORMATIK