

USTH MM2.1

Soft. Eng. for Interactive Media



Visual Time Line

Due Nov. 28th 2016 (midnight, Hanoi time) see also
the general intro for rules/warnings (Lecture #1)

Visual Time Line (VTL) Project

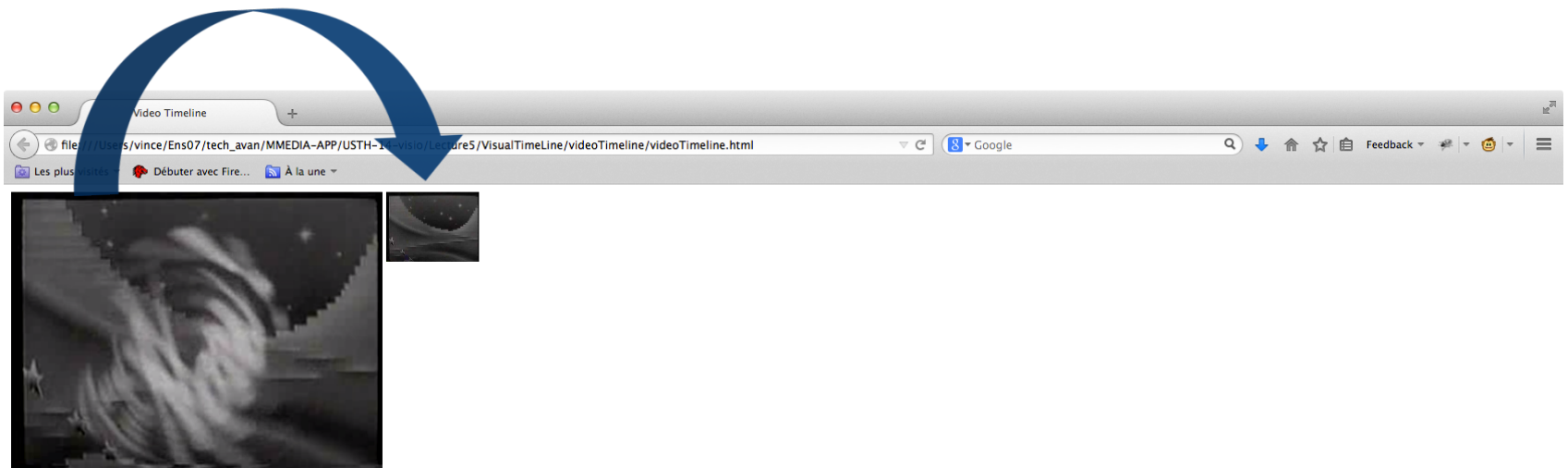
- Devise an advanced video player VP
- Evaluate it through a (small) user study
- The VP Functioning in decomposed in two rounds:
 - **Construction** of clickable panels
 - **Navigation** with the obtained panels
- Technology:
 - multimedia extensions of HTML5 +javascript

VTL project

- **Contruction (Time 0):**

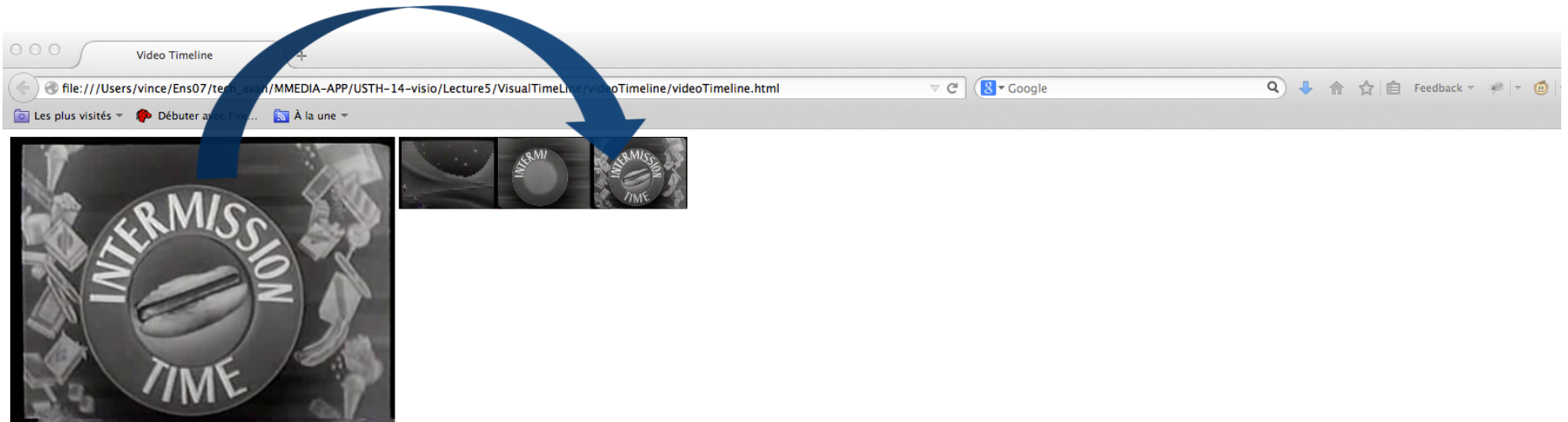
Read a video source, Export and copy frames

THIS CODE IS AVAILABLE



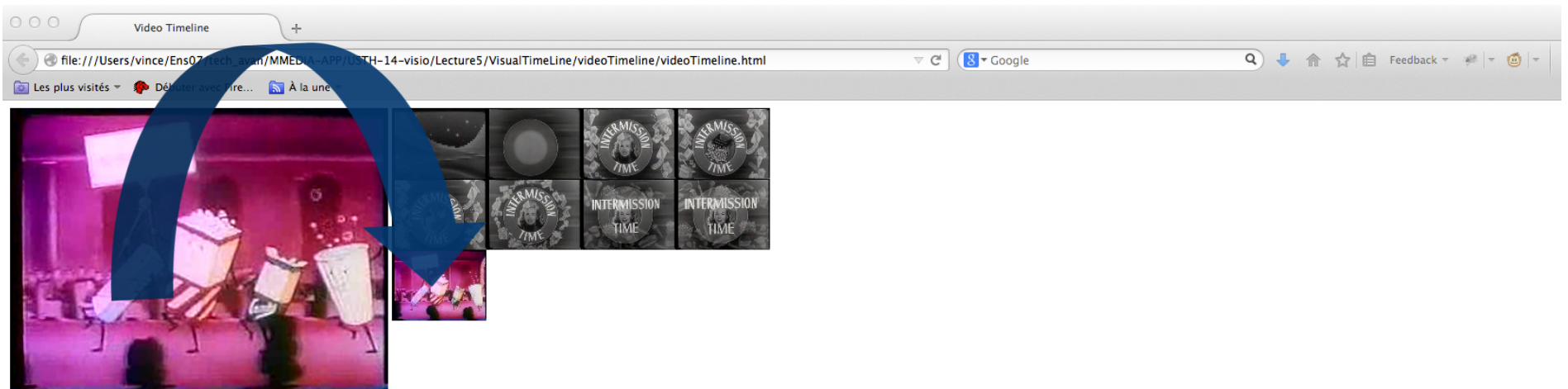
VTL project

- **Contruction (Time 2X, 2X seconds later):**
Read a video source, Export and copy frames



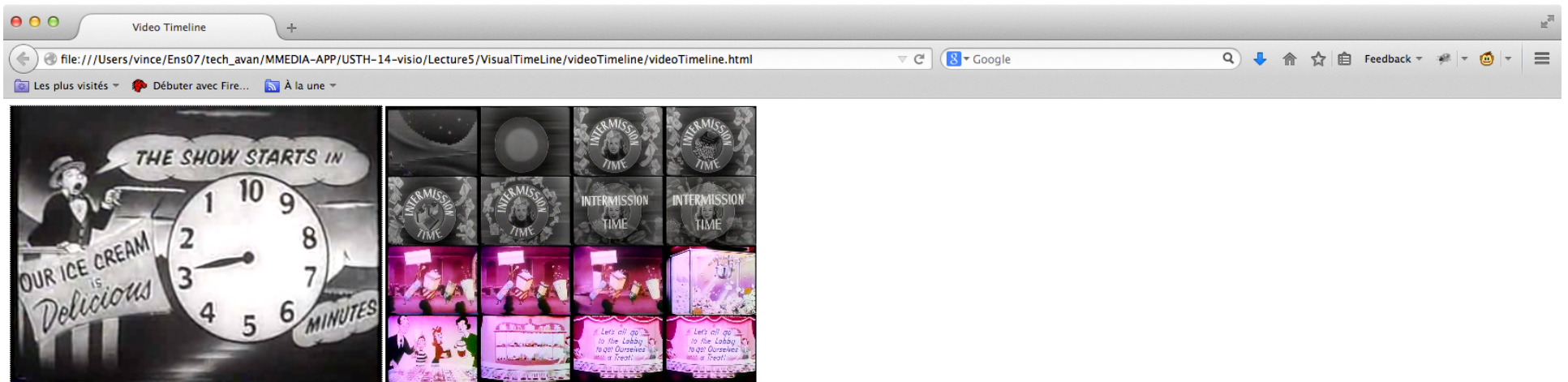
VTL project

- **Contruction (Later on):**
Read a video source, Export and copy frames



VTL project

- **End of construction phase (Time 15X+):**
Video playout (and construction phase) are over
A panel is constructed with keyframes



VTL project

- **Navigation :**

Video playout (and construction phase) are over

A panel is constructed with keyframes

Make the panel interactive (it's a visual-time line)



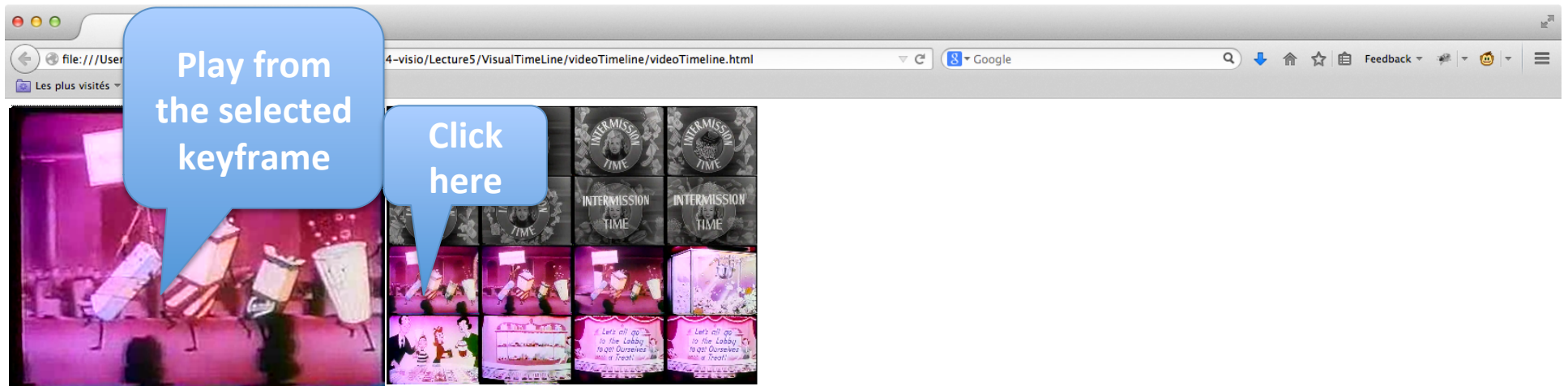
VTL project

- **Navigation :**

Video playout (and construction phase) are over

A panel is constructed with keyframes

Make the panel interactive (it's a visual-time line)

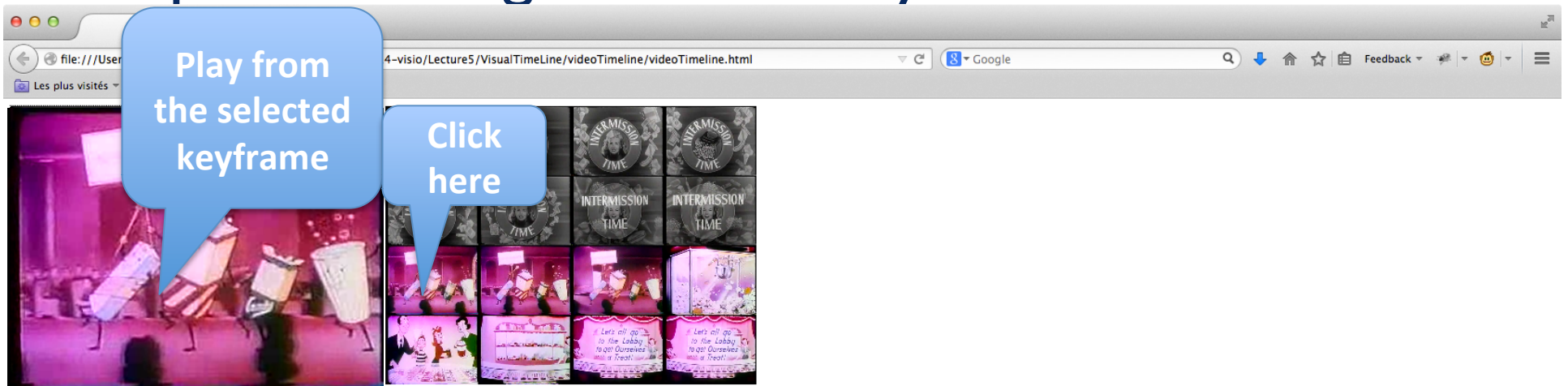


VTL projects

- **Warnings :**

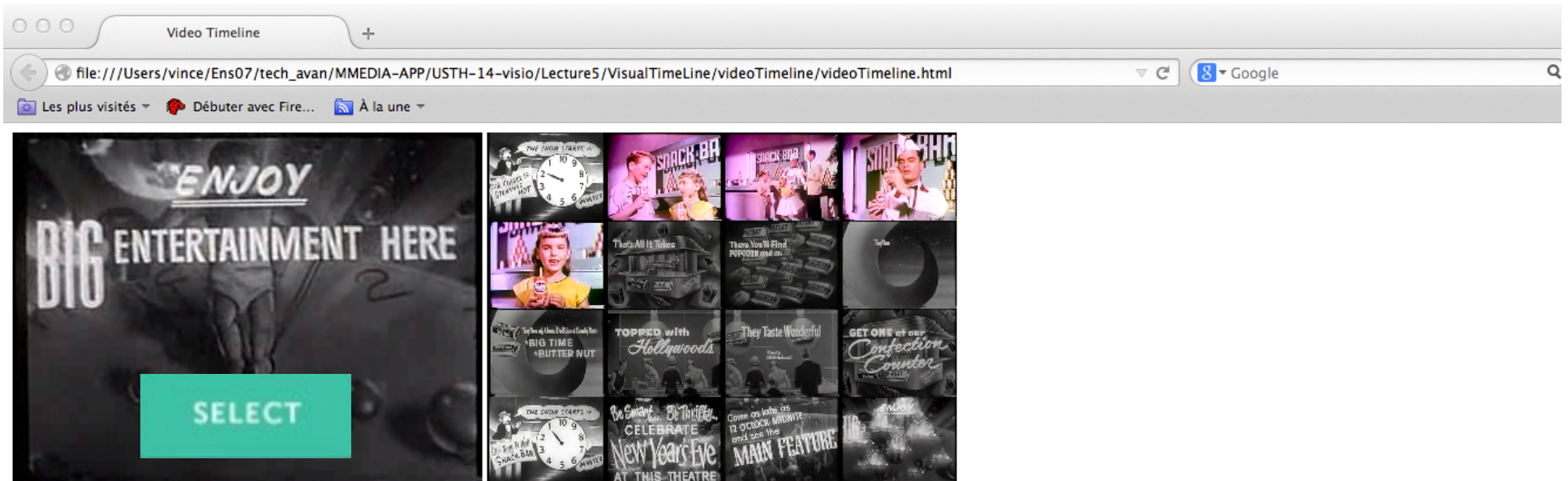
I expect different projects with additional ideas and interaction tricks

Ideally different interfaces will be evaluated/ compared through a user study



VTL project

- **Alternative Construction Method :**
Use a toggle button to select a keyframe



VTL project

- **Alternative Navigation Method :**

Use a visual slider to navigate through the keyframes



VTL project

- **Alternative Multiresolution Navigation:**
Coarse to fine selection

The image shows a browser window titled "Video Timeline" with a file path: `file:///Users/vince/Ens07/tech_avan/MMEDIA-APP/USTH-14-visio/Lecture5/...ne.html`. The interface displays a large video frame on the left and a grid of smaller keyframes on the right. A blue speech bubble points to a selected keyframe in the grid, containing the text "Select (click on) this keyframe". Another blue speech bubble points to a larger, more detailed view of the selected keyframe, containing the text "Get more keyframes around the selected time (fine grained keyframe selection panel)". A third blue speech bubble points to a further refined view of the keyframe, containing the text "Refine your initial selection".

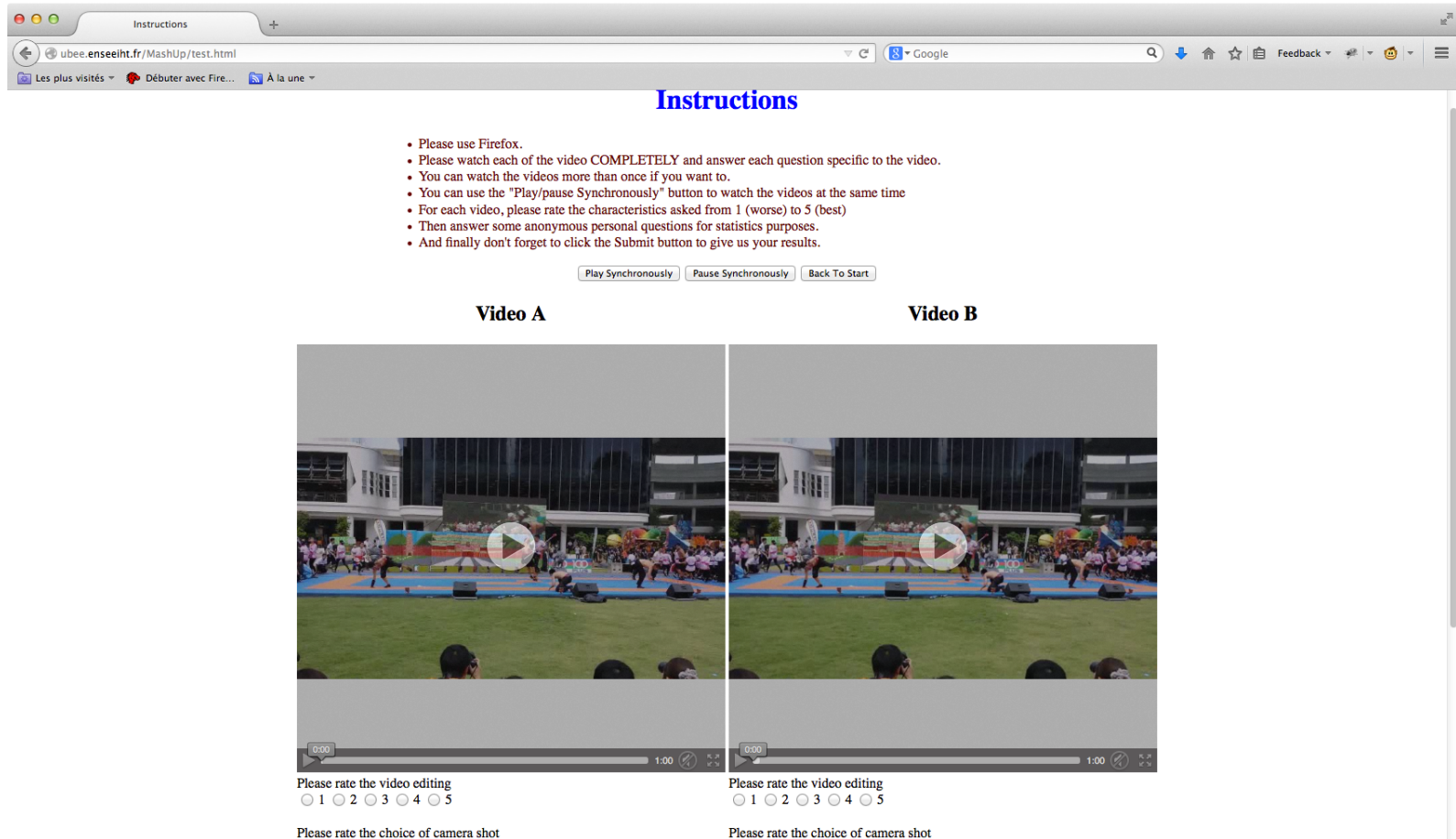
Select (click on) this keyframe

Get more keyframes around the selected time (fine grained keyframe selection panel)

Refine your initial selection

An Original VTL project

- Implement a (HTML5) tutorial for your interface
- Set-up a user study (in HTML 5) :



Instructions

- Please use Firefox.
- Please watch each of the video COMPLETELY and answer each question specific to the video.
- You can watch the videos more than once if you want to.
- You can use the "Play/pause Synchronously" button to watch the videos at the same time
- For each video, please rate the characteristics asked from 1 (worse) to 5 (best)
- Then answer some anonymous personal questions for statistics purposes.
- And finally don't forget to click the Submit button to give us your results.

Play Synchronously Pause Synchronously Back To Start

Video A **Video B**

Please rate the video editing
 1 2 3 4 5

Please rate the choice of camera shot

Please rate the video editing
 1 2 3 4 5

Please rate the choice of camera shot