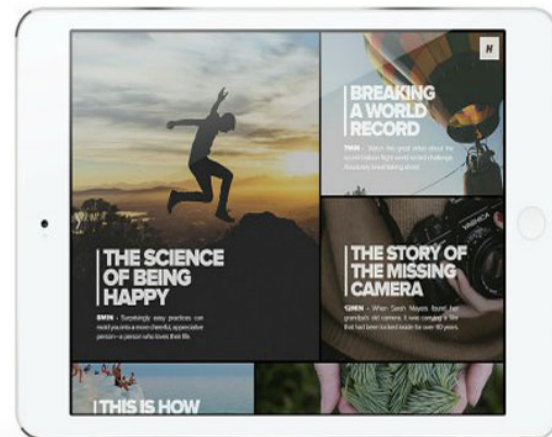


What is HyperVideo?

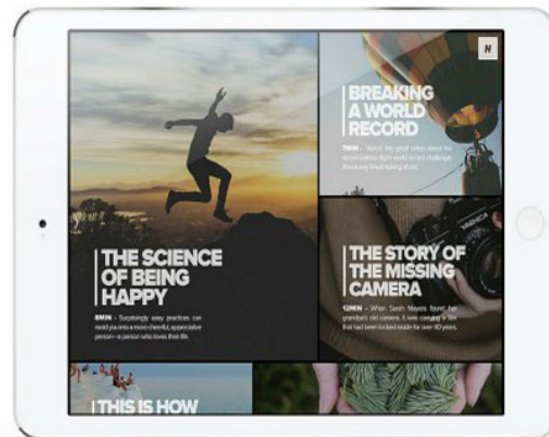
- Hypervideo, or videos hyperlinks, is a video stream to be displayed containing embedded, so users can click, enabling navigation between videos and other hypermedia elements.
- Hypervideo combine video with an information structure non-linear, allowing users to choose based on the content of the video and the interests of users.



HYPER

How to edit the HyperVideo?

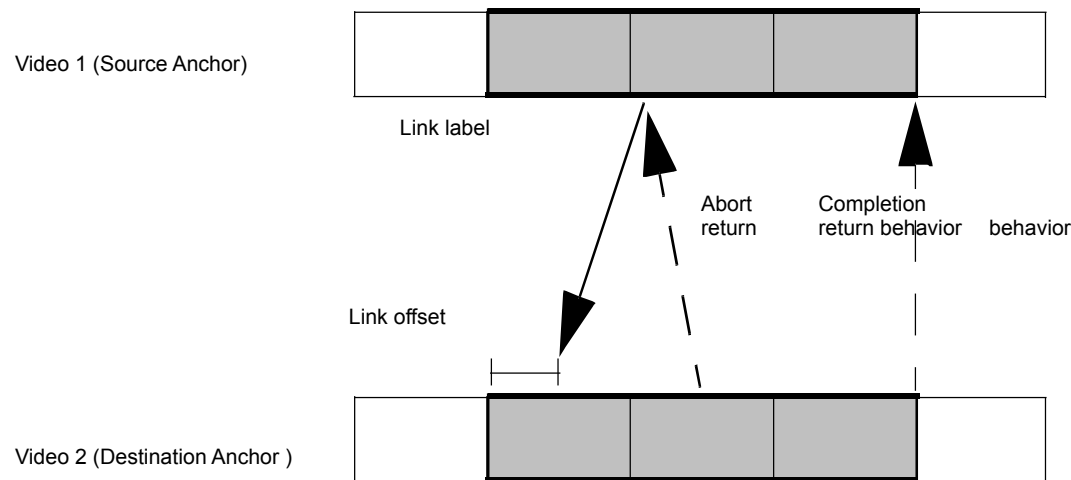
- To simplify the process of interactive video editing, the developers came up with the concept of "detail on demand" and the development of authoring software with a simple interface, while supporting a wide range of interactive video applications.



HYPER

Detail-on-demand

- Detail-on-demand video is a form of hypervideo that supports one hyperlink at a time for navigating between video sequences.
- A Detail-on-Demand video link includes source and destination anchors, link label, and return behaviors.



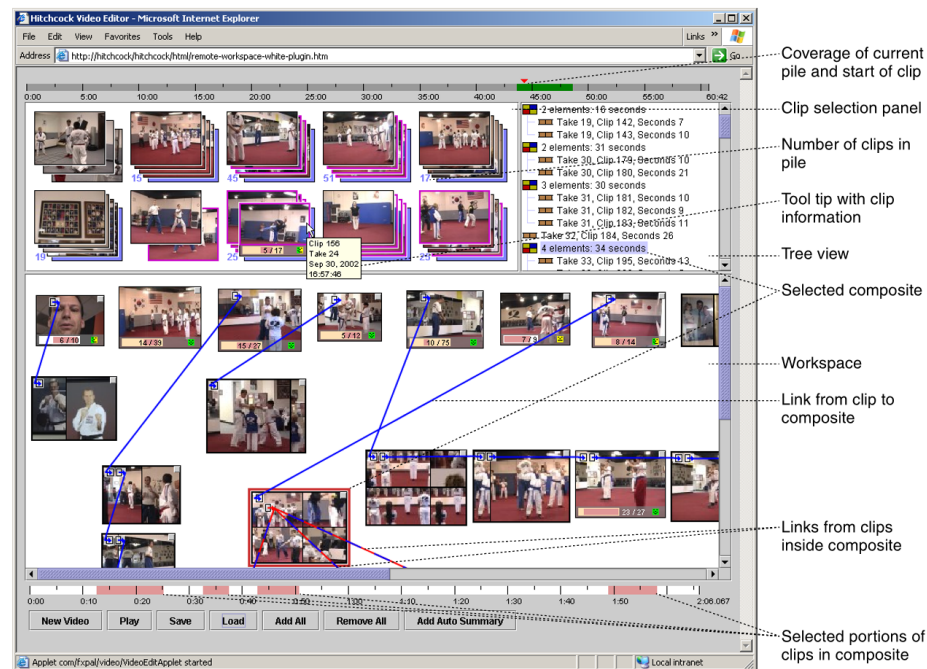
Hyper-Hitchcock structure

Hyper-Hitchcock consists of three components for creating and viewing a form of interactive video called detail-on-demand video:

- a hypervideo editor
- a hypervideo player
- algorithms for automatically generating hypervideo summaries

A hypervideo editor

- The Hyper-Hitchcock editor enables authoring of detail-on-demand video without programming and uses video processing to aid in the authoring process.
- Hyper-Hitchcock, provides a direct manipulation environment in which authors can combine video clips and place hyperlinks between them.



A hypervideo player

- Viewing video in Hyper-Hitchcock combines interaction characteristics from browsing the Web and changing channels on TV.

Example: If the destination video is not of interest, the viewer can press a “back” button to return to the source video similar to backtracking in a Web browser.



Hypervideo summarizations

Hyper-Hitchcock includes the ability to automatically generate multi-level hypervideo summaries.

The generation of the multi-level video summary includes three basic decisions:

- How many levels to generate and of what lengths
- Which clips from source video to show in each level of the summary
- What links to generate between the levels of the summary and the behaviors of these links

Conclusion

- Detail-on-demand video as a flavor of hypervideo that simplifies authoring and navigation.
- Hyper-Hitchcock supports authors in creating detail-on-demand video by providing a direct manipulation environment in which authors can combine video clips and place hyperlinks between them.
- Two goals for the design of hypervideo summaries are to minimize user disorientation resulting from link navigation and minimizing the rewatching of video.