

CBC Newsworld Holodeck

The CBC Newsworld Holodeck is a 'big data' visualization and signification of portions of 24 years of CBC News (1989–2013), enabling rich, context-aware spoken phrase and keyword browsing, search, segment review, information seeking, and display.



On This Day: 1st January 1993

The CBC Newsworld Holodeck utilizes the GestureTek software system and Microsoft Kinect to sense the user's gestures, enabling interaction with multi-screen video display.

Video data communicates with the gesture-based library through an open-source C++ toolkit, which allows flexibility of video control, animation, and speed optimization. The Kinect searches for the user's hand; upon detecting the gesture the system calls an action that corresponds to that gesture. The called action selects a video, plays that video, which initiates keywords to populate the screen, or hides them during video playback, enabling focused viewing.

Keyword/phrase selection takes the viewer directly to the selected video clip (enabled by natural language processing technologies), a novel interaction in video browsing, search and display. The Holodeck interface enables gestural interaction, and rich, context-aware browsing and search of the CBC Newsworld 'big data' video corpus.



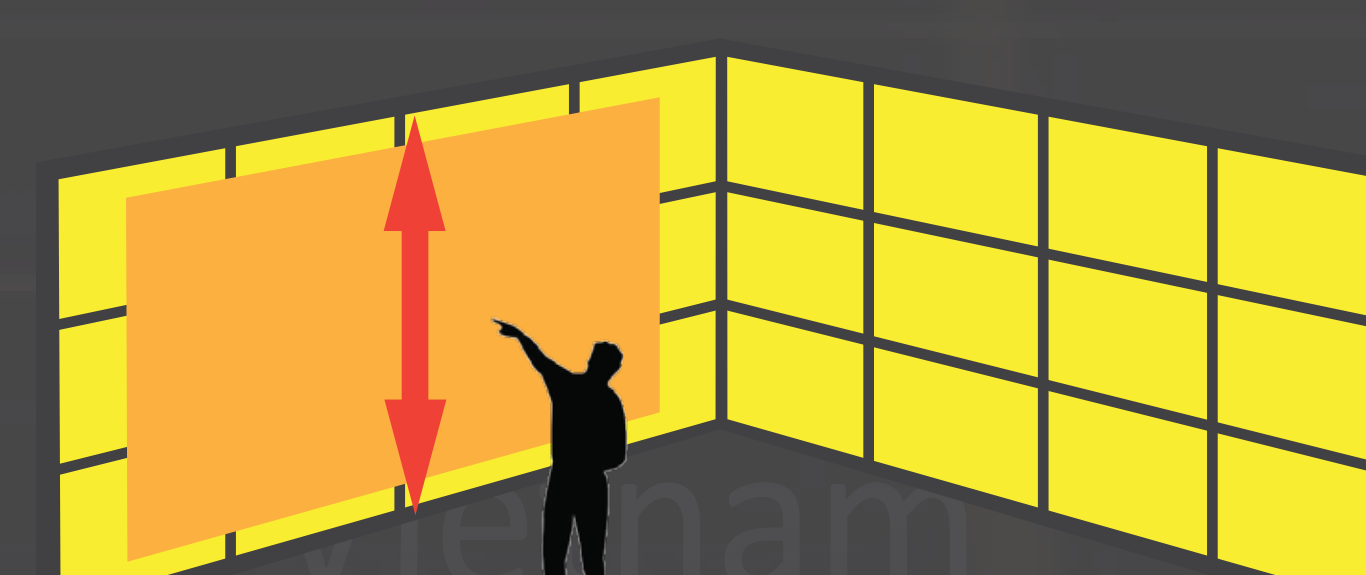
Mobile Lab <http://research.oacdu.ca/mobilelab/project/cbc-newsworld-holodeck>
 CIV-DDD <http://www.civ-ddd.ca/project/cbc-newsworld-project/>



1. News stories displayed in a multi-screen environment



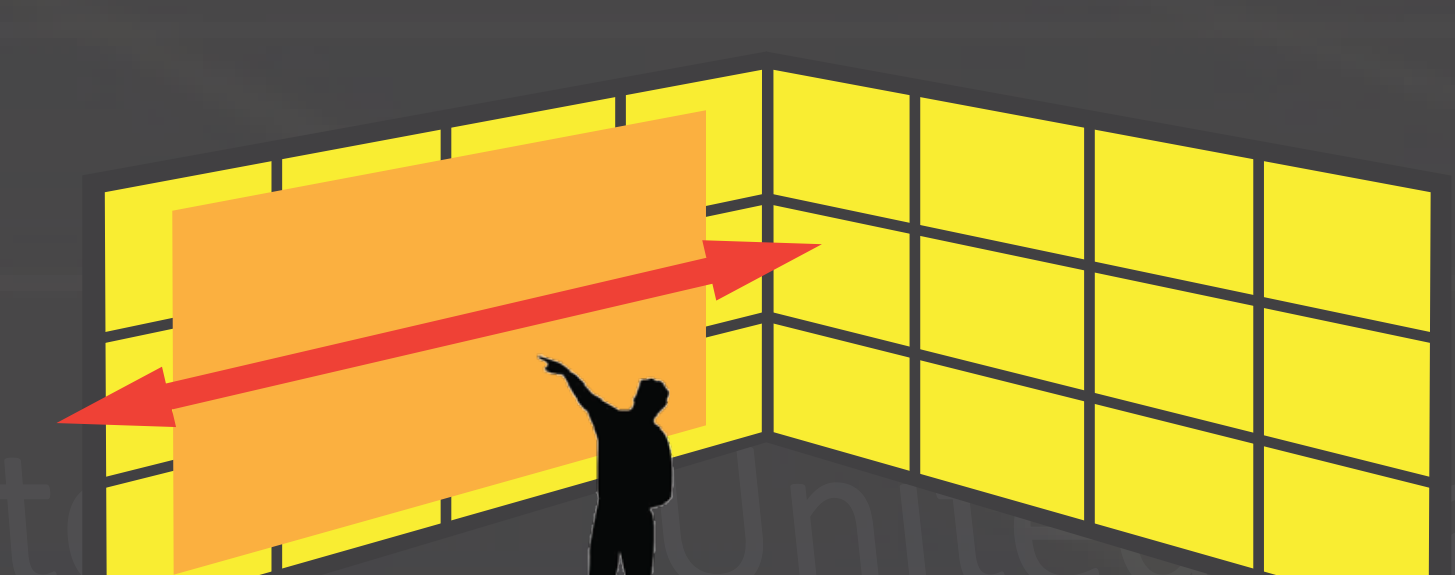
2. Choose video with the 'select and hover' gesture



3. View full screen video. Swipe up and down to reveal and hide keywords.



4. Browse and select keywords and phrases with the cursor.



5. Swipe to return to multi-screen interface

Principal Investigators
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Theme:
 Mixed Reality/Interactive Visualization
Industry Partner
 GestureTek

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 CIV-DDD
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