

# Enhancing the Presentation of Multimedia using Extracted Semantics

Hyowon Lee  
Guest Speech at 1<sup>st</sup> SEMPS Workshop (6 Dec 2006)

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Centre for Digital Video Processing  
Dublin City University

## Overview

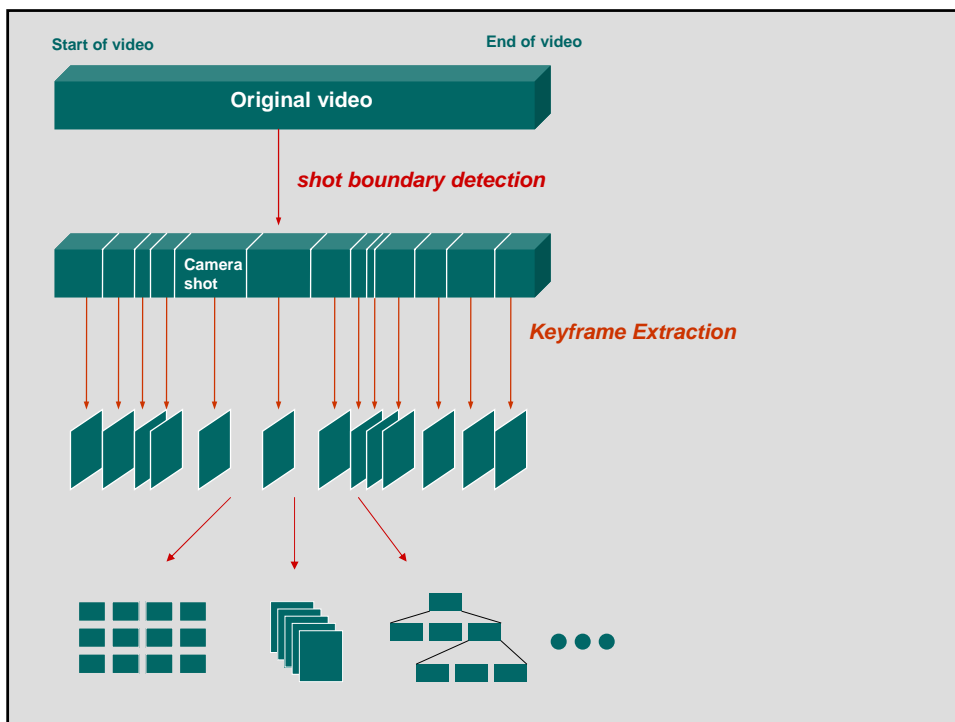
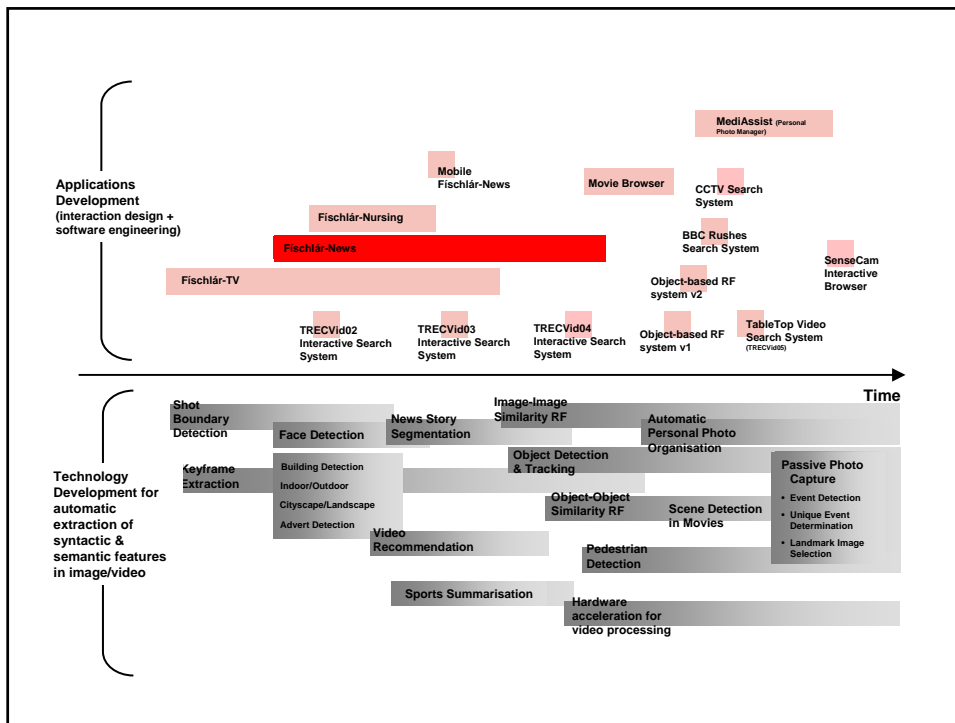
- Centre & my role
- Selection of multimedia applications and their presentation design issues
- Some observations
  - Different applications, different design decisions
  - Applying general design principles

## Centre for Digital Video Processing at Dublin City University

- **Developing automatic indexing/retrieval tools for managing large amount of image/video information**
  - Object/Face Detection & Tracking in Video
  - Audio & Video Event Detection
  - Video Delivery on Mobile Devices
  - Large-scale Distributed Web Image Search
  - Search Engine Design for Collaborative Video Retrieval
  - Hardware Accelerator Design for MPEG-4 Mobile Platform
  - Personalisation & Recommendation for Video
  - Synergy between automatic & manual indexing
  - Fusion of multi-modal query results

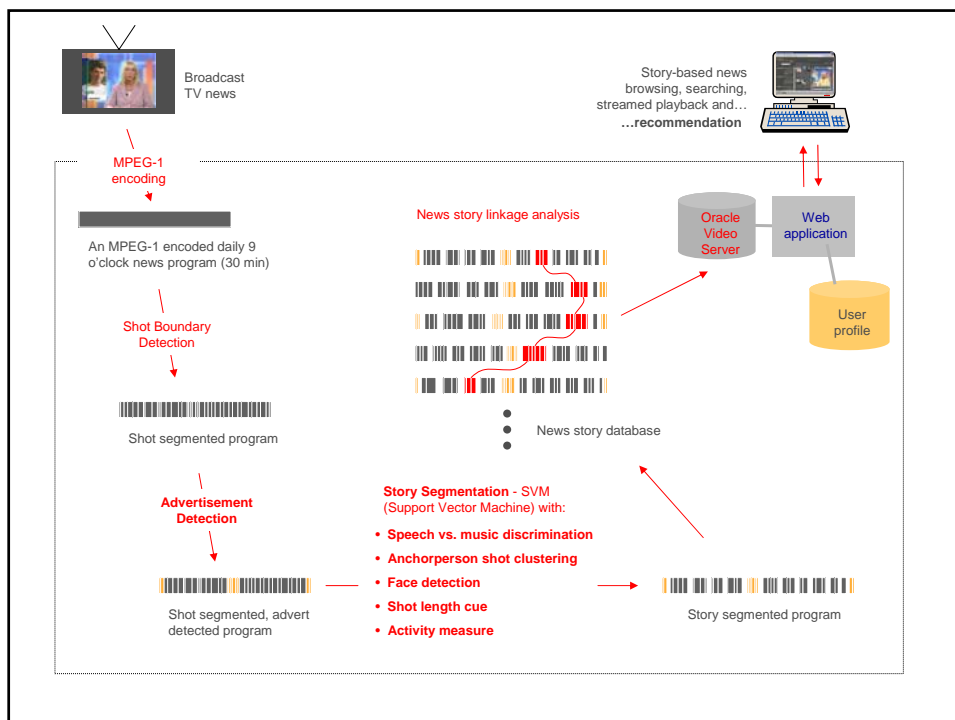
## My Role: Usability & User Issues

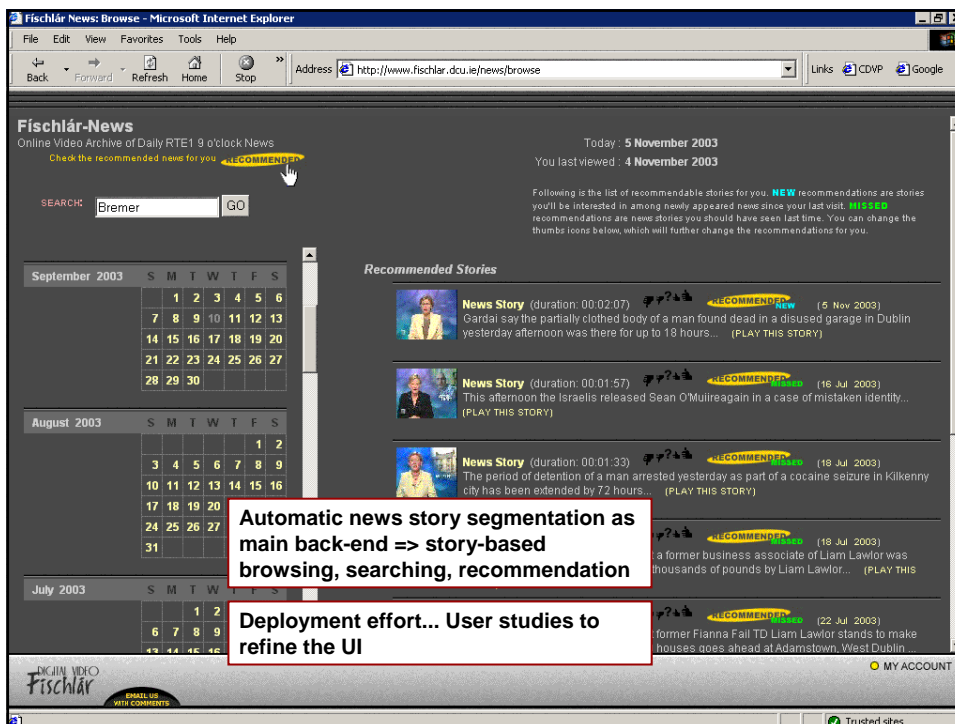
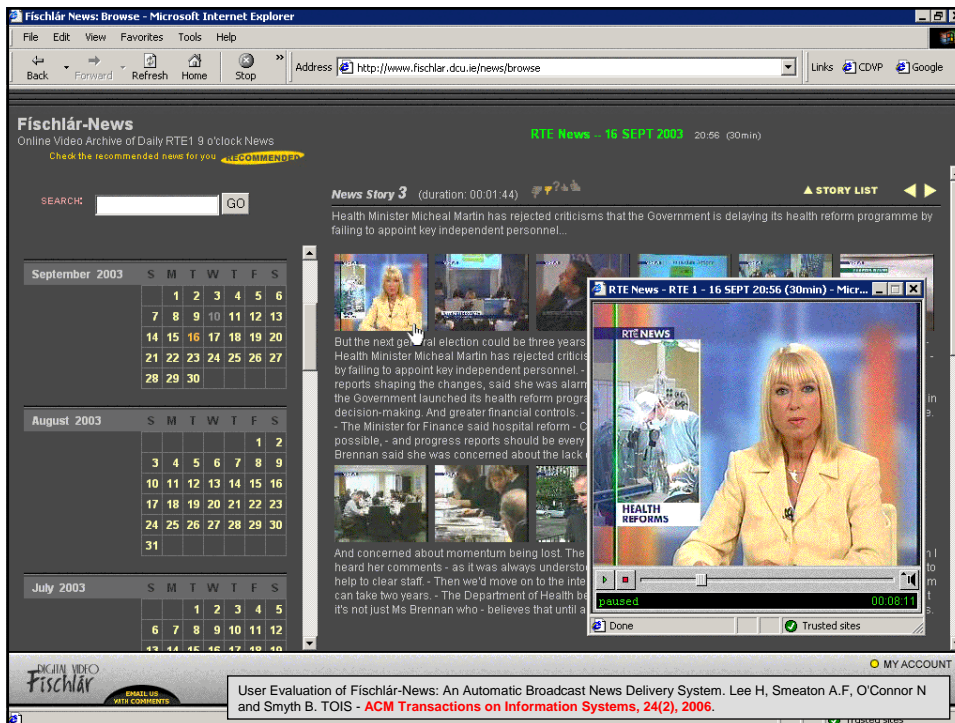
- Understand the research & development of Image/Video indexing/retrieval tools within the Centre
- Think how these could be exploited
  - Envision the use: scenarios & future system use
  - Prototyping user-interfaces
  - Deploy (if possible)
  - User testing: monitor usage & guide future development



## Físchlár-News Archive

- Online archive of daily RTE1 9pm TV news
- Automatic video indexing:
  - **News Story Segmentation**, based on:
    - Anchorperson detection (by shot clustering)
    - Face detection
    - Advertisement detection
    - Shot length
    - Activity measure





# Some Factors in its UI Design

- Application specific...

**Fischlár-News**  
Online Video Archive of Daily RTE1 9 o'clock News  
Check the recommended news for you [RECOMMEND IT?](#)

RTÉ News - 15 SEPT 2003 20:56 (30min)

SEARCH:  GO

Following is the list of news stories in the selected news programme. You can browse each story in more detail or play the story. To help us recommend you the news stories you'd like, please indicate whether you like the news stories or not.

**News Summary: 11 stories**

September 2003	S	M	T	W	T	F	S
	1	2	3	4	5	6	
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				

**News Story 1** (duration: 00:01:53) [Browse this story](#)

800 new jobs have been promised by the online auctions website e-Bay which today confirmed it is to open a new facility at Blanchardstown in west Dublin... (PLAY THIS STORY)

**News Story 2** (duration: 00:03:51) [Browse this story](#)

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Health Minister Micheal Martin has rejected criticisms that the Government is delaying its health reform... (PLAY THIS STORY)

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**News Story 5** (duration: 00:01:14) [Browse this story](#)

Police in Sweden investigating the murder of the country's Foreign Minister, Anna Lindh, say they've identified and arrested her killer on Stockholm... (PLAY THIS STORY)

MY ACCOUNT

[http://www.fischlar.dcu.ie/news/browse/videoStory?content=17306&storyID=story17306\\_3](http://www.fischlar.dcu.ie/news/browse/videoStory?content=17306&storyID=story17306_3)

Trusted sites

**Callout 1:** Daily update, up-to-dateness of news => Calendar

**Callout 2:** Anchorperson's 2-line summary statement as story summary text

**Callout 3:** Average #stories per day (10-20 only) => Linear list most effective (no drop-down box or pagination necessary)

## Some Factors in its UI Design

- General design principles, guidelines, graphic design, web design, etc. – knowledge & experience I have in general
  - E.g. Overview first, details on demand

The screenshot shows the Fischlár News website in Microsoft Internet Explorer. The browser address bar displays <http://www.fischlar.dcu.ie/news/browse>. The website layout includes a navigation menu on the left with the following items:

- Day list of the months (calendar)
- Story list of the day
- Shot list of the story
- Playback (full detail)

The main content area features a news story titled "Health Minister Micheal Martin has rejected criticisms that the Government is delaying its health reform programme by failing to appoint key independent personnel...". The story includes a video player for "RTE News - RTE 1 - 16 SEPT 2003" and a "STORY LIST" section. The video player shows a news anchor and has a "paused" status with a duration of 00:08:11. The website footer includes the Fischlár logo and a "MY ACCOUNT" link.

## Some Factors in its UI Design

- General design principles, guidelines, graphic design, web design, etc. – knowledge & experience I have in general
  - E.g. Overview first, details on demand
  - E.g. Visual consistency

**Fischlár News: Browse - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Refresh Home Stop

Address <http://www.fischlar.dcu.ie/news/browse> Links CDVP Google

**Fischlár-News**  
Online Video Archive of Daily RTE1 9 o'clock News

Check the recommended news for you [COMMENT](#)

SEARCH:  GO

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DIGITAL VIDEO  
**Fischlár**  
EMAIL US WITH COMMENTS

MY ACCOUNT

Trusted sites



Fischlár News: Browse - Microsoft Internet Explorer

Address: http://www.fischlar.dcu.ie/news/browse

**Fischlár-News**  
Online Video Archive of Daily RTE1 9 o'clock News

Check the recommended news for you **RECOMMENDED**

SEARCH:

Query term(s): **Bremer**  
Search found: **5 news stories**

Search found following stories which contain your query term(s). Browse and play the stories or look at other stories on the day following stories below. To receive recommended stories, please indicate whether you like the news stories or not, using thumbs icons.

**Search Result: 5 stories**

**News Story** (duration: 00:02:24) (13 Jul 2003)  
The first Iraqi council meets since Saddam's overthrow... (PLAY THIS STORY)

**News Story** (duration: 00:02:01) (22 May 2003)  
UN Security Council has voted by 14-0 to lift sanctions on Iraq and to recognise United States and Britain as...

**News Story** (duration: 00:01:53) (5 Jul 2003)  
The chief US administrator in Iraq, Paul Bremer, has condemned an attack in the west of the country which killed seven recruits to a US-backed police force... (PLAY THIS STORY)

**News Story** (duration: 00:02:22) (22 Aug 2003)  
At least nine people have been killed and more than 10 wounded in clashes between Kurds and Turkmen in Northern Iraq...

**News Story** (duration: 00:02:10) (17 Oct 2003)  
The US House of Representatives has approved President Bush's request for \$87bn in new spending for military operations and reconstruction efforts...

September 2003: S M T W T F S  
1 2 3 4 5 6  
7 8 9 10 11 12 13  
14 15 16 17 18 19 20  
21 22 23 24 25 26 27  
28 29 30

August 2003: S M T W T F S  
1 2  
3 4 5 6 7 8 9  
10 11 12 13 14 15 16  
17 18 19 20 21 22 23  
24 25 26 27 28 29 30  
31

July 2003: S M T W T F S  
1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19

DIGITAL VIDEO **Fischlár**  
EMAIL US WITH COMMENTS

MY ACCOUNT

Done Trusted sites

Fischlár News: Browse - Microsoft Internet Explorer

Address: http://www.fischlar.dcu.ie/news/browse

**Fischlár-News**  
Online Video Archive of Daily RTE1 9 o'clock News

Check the recommended news for you **RECOMMENDED**

SEARCH:

**Whenever list of stories appears...**

**... to make obvious what a piece of presentation on the screen represents and doesn't require interpretation effort**

**RTÉ News - 23 AUG 2003** 20:56 (30min)

I think those yearning for the return of Ba'athism will be disappointed. But Lebanese television showed a tape of a new group.

**News Story** (duration: 00:04:06) (19 Aug 2003)  
A top United Nations envoy to Iraq, Sergio Vieira de Mello, has been killed in a powerful truck bomb explosion at the UN headquarters in Baghdad. At least 14 others died in the blast and scores more have been injured... (PLAY THIS STORY)

**News Story** (duration: 00:01:55) (28 Aug 2003)  
The United States has indicated that it may accept a UN-mandated international peacekeeping force, provided it is led by an American... (PLAY THIS STORY)

**News Story** (duration: 00:01:53) (23 May 2003)  
UN secretary general Kofi Annan has named the human rights commissioner Sergio Vieira de Mello as his representative for Iraq... (PLAY THIS STORY)

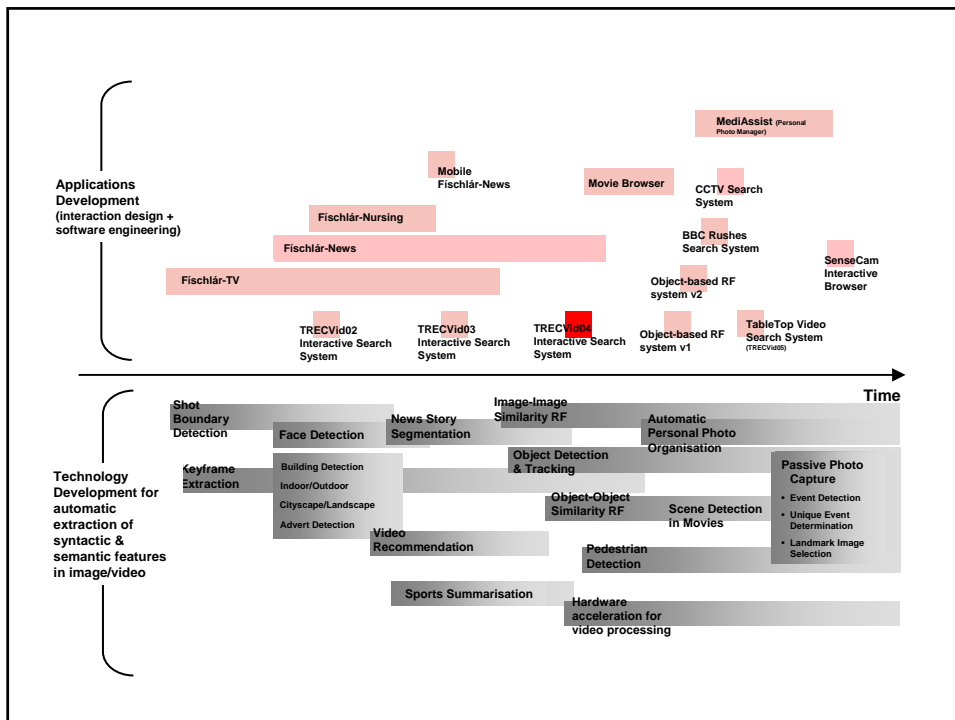
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July 2003: S M T W T F S  
1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19

DIGITAL VIDEO **Fischlár**  
EMAIL US WITH COMMENTS

MY ACCOUNT

http://www.fischlar.dcu.ie/news/browse/video/content=16439&storyID=story16439\_9 Trusted sites



### QUERY PANEL

Enter term(s) and click SEARCH button. Added shots will be used together for searching [clear text] [clear all]

rocket launch

GLOBAL COLOUR     LOCAL COLOUR  
 EDGE                 MOTION  
 TEXTURES             FACE FILTER

are shuttle launch can be built in westling but

private companies are racing to design of reusable rocket book

### SEARCH RESULT

Search found 250 matching shots. Following is the ranked list of the search result. Click an image to play the segment; click **DELETE** button to add to your answers, or click **DELETE** button to improve subsequent query.

RESULT PAGE: 1 2 3 4 5

1: ABC News (00 Oct 1998) + MORE MATCHES IN THIS BROADCAST

that managers about we've got big he'd be in on board discomy yesterday to launch would have looked like this when is in the middle of this picture are shuttle launch can be built in westling but it was far gentler than lives at least one we've that the astronauts back in space again that was quite different than a ride i got before of course back a long time ago

2: ABC News (27 Oct 1998) + MORE MATCHES IN THIS BROADCAST

everyone is a one shot one each problem bruno with its than once was before with the equivalent of a jettiner four so private companies are racing to design of reusable rocket book a very deep oporal commanded the apollo twelve mission to the moon he says the private sector can do it much cheaper

3: ABC News (27 Oct 1998) + MORE MATCHES IN THIS BROADCAST

### TASK 1

SEE DESCRIPTION

FINISH THIS TASK

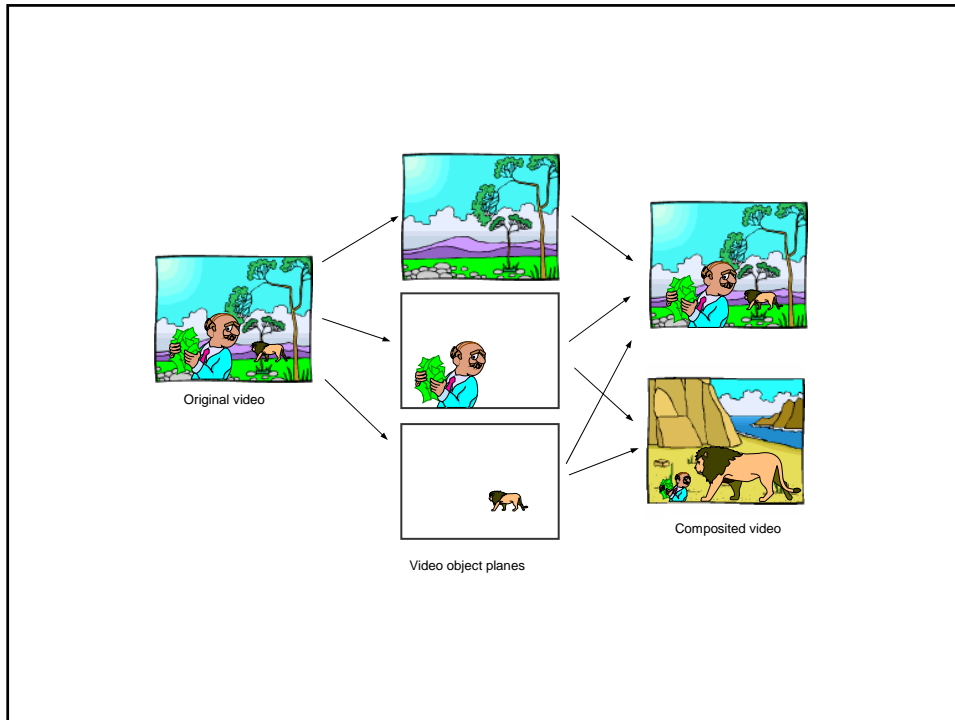
#### SAVED SHOTS

You saved 5 shots, shown below - these are your answers to the current task. Add more, delete, or use them for subsequent query.

- 
- 
- 
- 
-

Fischlär-TRECvid2004: Combined Text- and Image-Based Searching of Video Archives. O'Connor N, Lee H, Smeaton A.F, Jones G, Cooke E, Le Borgne H and Gurrin C. **ISCAS 2006** - IEEE International Symposium on Circuits and Systems, Kos, Greece, 21-24 May 2006.

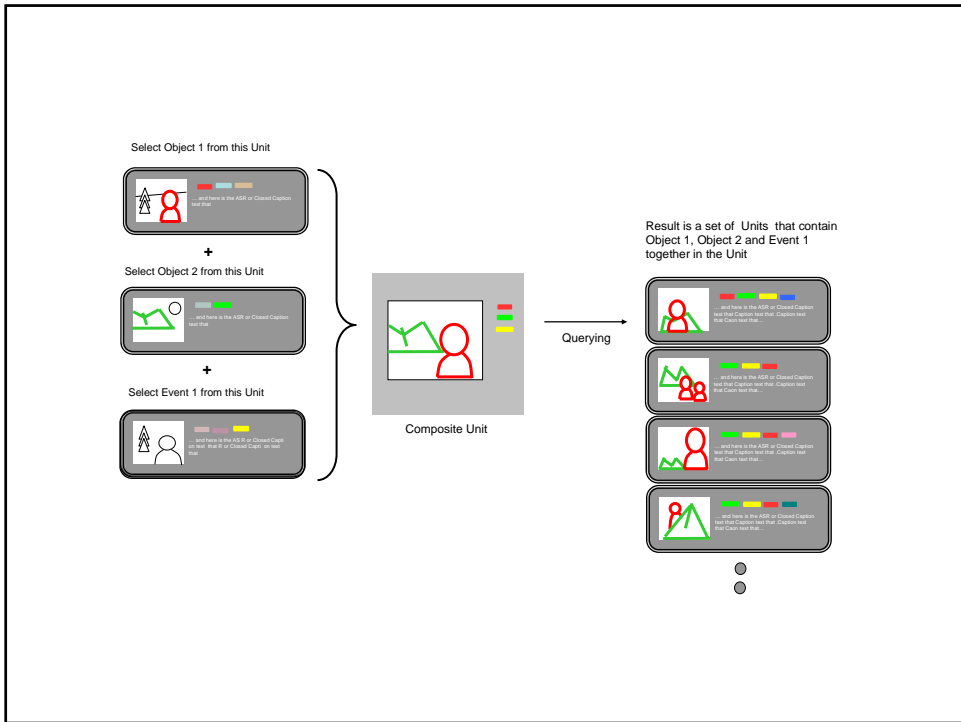
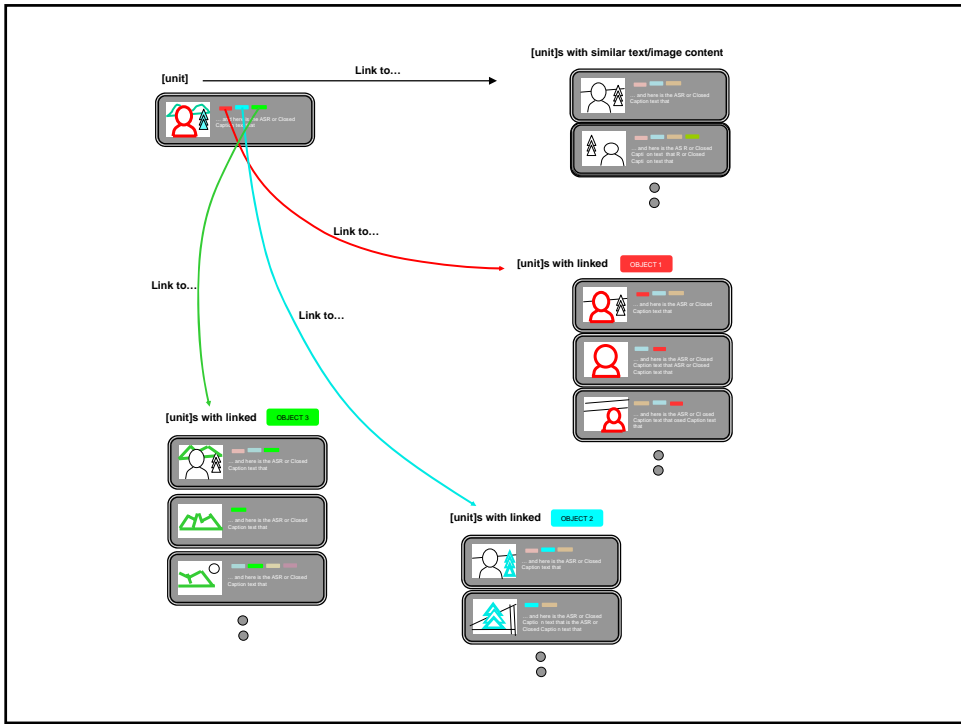


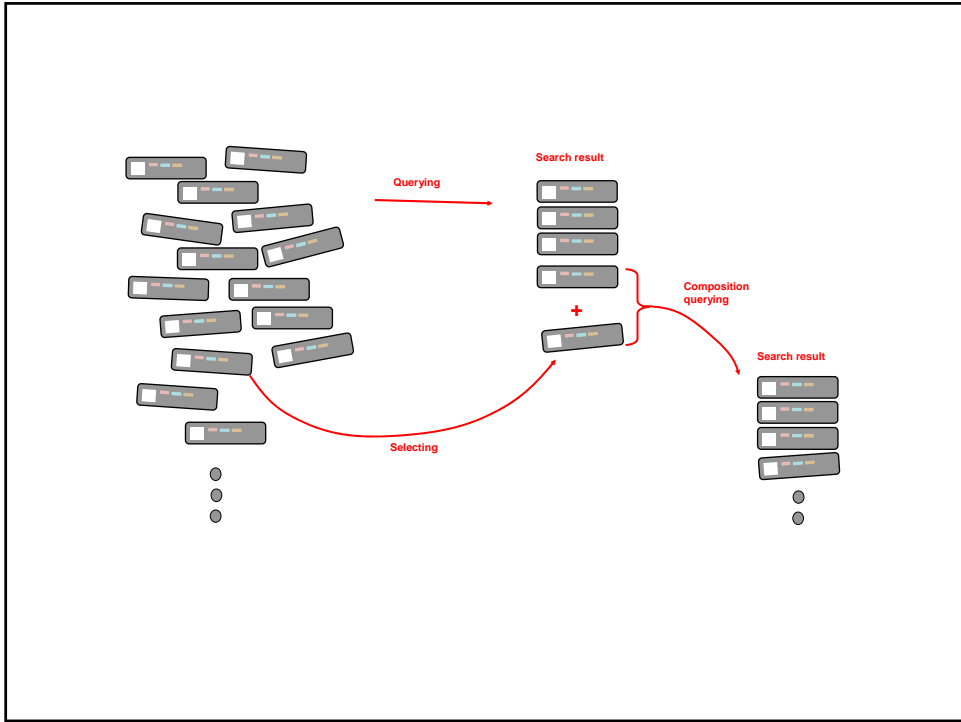


A **unit representation** shows:

- the unit's video content summary,
- all the detected Objects & Events and link possibility are indicated

Three examples of unit representations for a video segment. Each example shows a video frame with a red outline around the person, a text description, and three colored buttons labeled OBJECT 1, OBJECT 2, and BACKGRD. The first example has a red outline around the person and the text "... I can't imagine even such an amiable ladies as my great grandmother could have been so gracious as to overlook one's house guest, shooting one through the face...". The second example has a red outline around the person and the text "... I can't imagine even such an amiable ladies as my great grandmother could have been so gracious as to overlook one's house guest, shooting one through the face...". The third example has a red outline around the person and the text "... I can't imagine even such an amiable ladies as my great grandmother could have been so gracious as to overlook one's house guest, shooting one through the face...".





### QUERY PANEL

Type in term(s) to search, select which unit of video you want to find, then click GO button

- SHOT
- SCENE
- PROGRAM

---

... is a great place for James to come and forged about it all. It's so far away from anything to

... Istanbul in October behind closed doors - Instead, the Turkish FA have been fined \$22,200.

---

### COMPOSITION PANEL

Compose a query by adding Objects and Events selected from the Query Panel, then Click on GO button.

### SEARCH RESULT

Search found 52 Shots. Browse the Shots and ADD to Query Panel for further searching or Composition query.

1 2 3 4 5

... and here is the ASR or Closed Caption text that used Caption SR or Closed Caption Closed Caption Closed

VIEW SCENE  
 VIEW PROGRAM

... and here is the ASR or Closed Caption text that ASR or Closed Caption text that

VIEW SCENE  
 VIEW PROGRAM

... and here is the ASR or Closed Caption text that used Caption text that used Caption text that

VIEW SCENE  
 VIEW PROGRAM

from being a collective unit in which we rewarded perseverance, hard work, patience, ... and now we're much more of

VIEW SCENE  
 VIEW PROGRAM

... and here is the ASR or Closed Caption text that Caption text that Caption text that

VIEW SCENE  
 VIEW PROGRAM

... and here is the ASR or Closed Caption text that Caption text that Caption text that

VIEW SCENE  
 VIEW PROGRAM

... and here is the ASR or Closed Caption text that Caption text that Caption text that

VIEW SCENE  
 VIEW PROGRAM

### QUERY PANEL

Type in term(s) to search, select which unit of video you want to find, then click GO button

● SHOT  
● SCENE  
● PROGRAM

**GO** ↩

... is a great place for James to come and forget about it all. It's so far away from anything to
X REMOVE  
U ADD

... Istanbul in October behind closed doors - Indeed the Turkish FA have been fined £22,000.
X REMOVE  
U ADD

### SEARCH RESULT

Search found **84** Shots. Browse the Shots and ADD to Query Panel for further searching or Composition query.

1 2 3 4 5 6 7 8 9 10

ADD

... and here is the ASR or Closed Caption text that used Caption SR or Closed Caption Closed Caption Closed
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that ASR or Closed Caption text that
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that used Caption text that
VIEW SCENE  
VIEW PROGRAM

ADD

... tom being a collective unit in which we recognized passengers, hand noise, patients, and now we're much more of
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that Caption text that. Caption text that Caption text that
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that Caption text that. Caption text that Caption text that
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that Caption text that. Caption text that Caption text that
VIEW SCENE  
VIEW PROGRAM

ADD

... and here is the ASR or Closed Caption text that Caption text that. Caption text that Caption text that
VIEW SCENE  
VIEW PROGRAM

Start with a micro-interaction scheme (using buttons that represent objects), then develop it further in an integrated interface

Detected objects have no labelling (meaning) but only as spatial region or blob on the keyframe

Applying this interaction scheme to object-based Relevance Feedback applications...

### CAMERAS

Select a camera below to see the list of events from that camera.

ID	CAMERA NAME	#EVENTS	DURATION	STATUS	ALERT
PHX1	PHYSICS B0 LEVEL1 FRI #1	35	15m 45s	ON-LIVE	
PHX2	PHYSICS B0 LEVEL1 FRI #2	4	27s	ON-LIVE	
PHX3	PHYSICS B0 LEVEL1 FRI #3	10	5m 57s	ON-LIVE	
PHX4	PHYSICS B0 LEVEL1 FRI #4	51	22m 05s	ON-LIVE	
PHX5	PHYSICS B0 LEVEL1 BAK #1	23	17m 26s	ON-LIVE	
PHX6	PHYSICS B0 LEVEL1 BAK #2	0	0s	OFF	
PHX7	PHYSICS B0 LEVEL2 FRI #1	47	23m 56s	ON-LIVE	
PHX8	PHYSICS B0 LEVEL2 FRI #2	29	14m 23s	ON-LIVE	

### QUERY PANEL

Select object(s) in the added event below, limit the date/time to search, select a camera then click SEARCH.

MAIN ENTRANCE #1  
13:09 - 13:09 12/18/2004 (Duration: 0s)
ADVANCED

EVENT TYPE: PERSON, OBJECT

SEARCH PERIOD: -1 week -1 day -2h -1h -30m -15m -5m -1m -1d +1h +30m +1d +1 week

QUERY1 QUERY2 SEARCH

### PLAYBACK

PHYSICS B0 LEVEL1 FRI #3  
14:01 - 14:01 12/18/2004 (Duration: 0s)

EVENT TYPE: PERSON

EVENT DETECTION MODE:

### SEARCH RESULT

Total 13 matches found from 12 cameras, include 23 different objects.

MAIN ENTRANCE #1  
13:09 - 13:09 12/18/2004 (Duration: 0s)

EVENT TYPE: PERSON, OBJECT

COMPUTING B0 EX1 LEVEL1 BAK #2  
13:09 - 13:10 12/18/2004 (Duration: 12s)

EVENT TYPE: PERSON

COMPUTING B0 EX1 LEVEL2 FRI #1  
13:21 - 13:21 12/18/2004 (Duration: 0s)

EVENT TYPE: PERSON

COMPUTING B0 EX1 EXIT BAK #5  
13:21 - 13:21 12/18/2004 (Duration: 0s)

EVENT TYPE: PERSON

Collins Avenue Main Entrance

User-Interface to a CCTV Video Search System. Lee H, Smeaton A.F, O'Connor N and Murphy N. **ICDP 2005** - IEE International Symposium on Imaging for Crime Detection and Prevention, London, U.K., 7-8 June 2005.

**CAMERAS**  
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PHX2	PHYSICS B/D LEVEL1 FRI #2	4	27s	ON-LIVE	
PHX3	PHYSICS B/D LEVEL1 FRI #3	18	8m 57s	ON-LIVE	
PHX4	PHYSICS B/D LEVEL1 FRI #4	51	22m 05s	ON-LIVE	
PHX5	PHYSICS B/D LEVEL1 BAK #1	23	17m 25s	ON-LIVE	
PHX6	PHYSICS B/D LEVEL1 BAK #2	0	0s	OFF	
PHX7	PHYSICS B/D LEVEL2 FRI #1	47	23m 56s	ON-LIVE	
PHX8	PHYSICS B/D LEVEL2 FRI #2	29	14m 23s	ON-LIVE	

**QUERY PANEL**  
Select object(s) in the added event below, limit the datetime to search, select a camera then click SEARCH.

MAIN ENTRANCE #1  
13:06 - 13:06 12/18/2004 (Duration: 8s)  
EVENT TYPE: PERSON; OBJECT

**SEARCH RESULT**  
Total 24 matches found from 19 cameras, includes 43 different objects.

MAIN ENTRANCE #1  
13:06 - 13:06 12/18/2004 (Duration: 8s)  
EVENT TYPE: PERSON; OBJECT

COMPUTING B/D EXL EXIT BAK #1  
13:21 - 13:21 12/18/2004 (Duration: 8s)  
EVENT TYPE: PERSON

COMPUTING B/D EXL LEVEL2 FRI #1  
13:11 - 13:11 12/18/2004 (Duration: 5s)  
EVENT TYPE: PERSON

COMPUTING B/D EXL LEVEL1 BAK #2  
13:09 - 13:16 12/18/2004 (Duration: 17s)  
EVENT TYPE: PERSON

**Using the Unit Representation (enabling object-based interaction) at micro-level interaction**

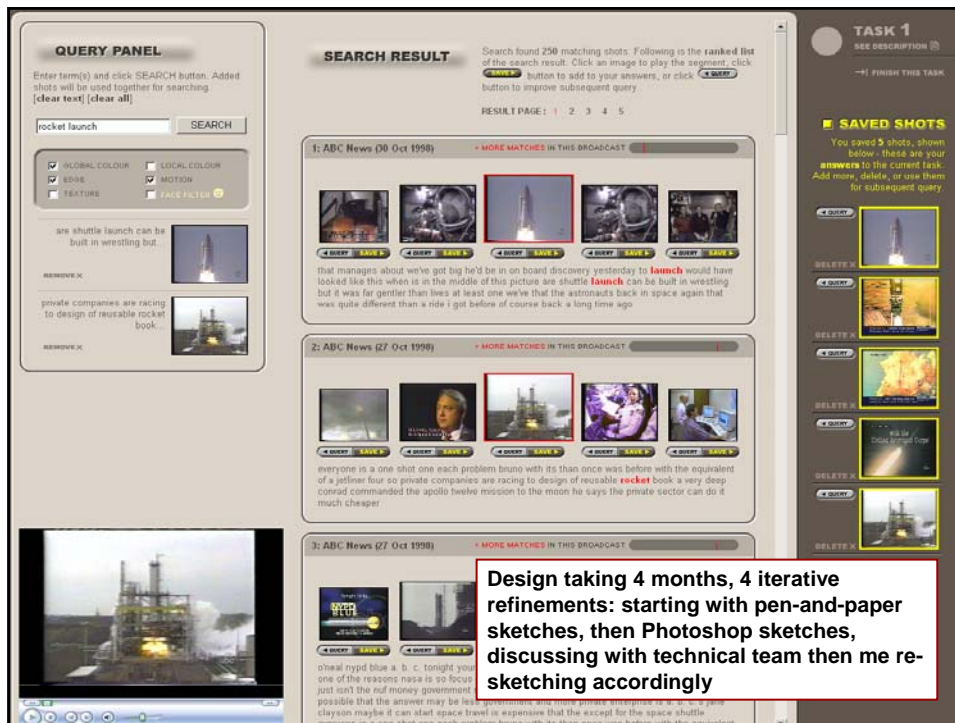
**(Conventional) Relevance Feedback idea**

Search result showing not only matched list of objects but also geographical map summarising and highlighting the matched object's route (note the application's main purpose: chase a suspect)

## Observations

- Considerable amount of time & effort in manually hard-designing UIs
  - For example...





## Observations

- Huge amount of time & effort in manually hard-designing
  - For example...
- Different situations require different specific design decisions
  - For example, presentation of keyframes

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August 2003

S	M	T	W	T	F	S
						1
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

July 2003

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19

DIGITAL VIDEO Fischlár

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MY ACCOUNT

Trusted sites

Linear list images and text

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RTÉ News - 16 SEPT 2003 20:56 (30min)

SEARCH:  GO

September 2003

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August 2003

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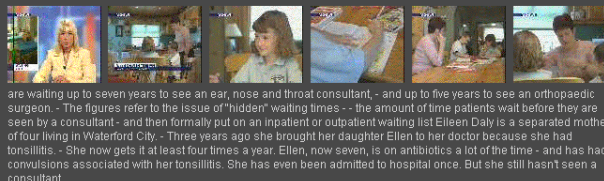
July 2003

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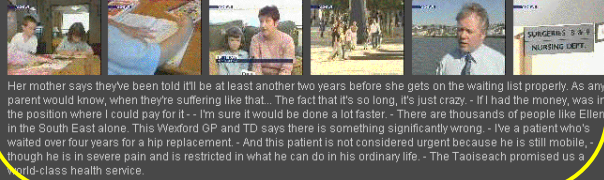
DIGITAL VIDEO Fischlár

**News Story 4** (duration: 00:01:51) ▲ STORY LIST

New figures show that patients in the the South East are waiting up to 7 years to see an Ear, Nose and Throat consultant and up to 5 years to see an Orthopaedic Surgeon...



are waiting up to seven years to see an ear, nose and throat consultant, - and up to five years to see an orthopaedic surgeon. - The figures refer to the issue of "hidden" waiting times - - the amount of time patients wait before they are seen by a consultant - and then formally put on an inpatient or outpatient waiting list Eileen Daly is a separated mother of four living in Waterford City. - Three years ago she brought her daughter Ellen to her doctor because she had tonsillitis. - She now gets it at least four times a year. Ellen, now seven, is on antibiotics a lot of the time - and has had convulsions associated with her tonsillitis. She has even been admitted to hospital once. But she still hasn't seen a consultant.



Her mother says they've been told it'll be at least another two years before she gets on the waiting list properly. As any parent would know, when they're suffering like that. - The fact that it's so long, it's just crazy. - If I had the money, was in the position where I could pay for it - I'm sure it would be done a lot faster. - There are thousands of people like Eileen in the South East alone. This Wexford OP and TD says there is something significantly wrong. - I've a patient who's waited over four years for a hip replacement. - And this patient is not considered urgent because he is still mobile, - though he is in severe pain and is restricted in what he can do in his ordinary life. - The Taoiseach promised us a world-class health service.

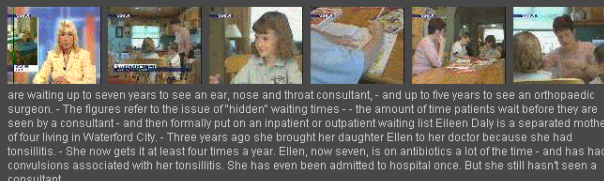
MY ACCOUNT

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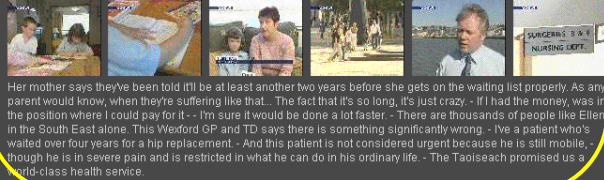
Images overlaid with text

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### QUERY PANEL

Enter term(s) and click SEARCH button. Added shots will be used together for searching.  
[clear text] [clear all]

rocket launch

GLOBAL COLOUR     LOCAL COLOUR  
 EDGE                     MOTION  
 TEXTURE                     FACE FACTOR

shuttle launch can be built in westling bud.

private companies are racing to design of reusable rocket book...

### SEARCH RESULT

Search found 258 matching shots. Following is the ranked list of the search result. Click an image to play the element, click  button to add to your answers, or click  button to remove subsequent query.

1: ABC News (06 Oct 1998) ▶ MORE MATCHES IN THIS BROADCAST

that manages about we've got big he'd be in on board discovery yesterday to launch would have looked like this when in the middle of this picture are shuttle launch can be built in westling bud it was far gentler than lives at least one we've that the astronauts back in space again that was quite different than a ride i got before of course back a long time ago

2: ABC News (27 Oct 1998) ▶ MORE MATCHES IN THIS BROADCAST

everyone is a one shot one each problem bruno with its than once was before with the equivalent of a jellies four so private companies are racing to design of reusable rocket book is very deep conrad commanded the apollo twelve mission to the moon he says the private sector can do it much cheaper

3: ABC News (27 Oct 1998) ▶ MORE MATCHES IN THIS BROADCAST

o'neal nyrd blue a. b. c. tonight your discretion advised finally from us this evening the price tag one of the reasons nasa is so focus on public relations this week is plain and simple money there can't the suf money government money to do anything the space agency would like solid possible that the reusable rocket government and some private operators some of the clayson maybe it can start space travel is expensive that the except for the space shuttle

### TASK 1

SEE DESCRIPTION

FINISH THIS TASK

#### SAVED SHOTS

You saved 5 shots, shown below - these are your answers to the current task. Add more, delete, or use them for subsequent query.

- 
- 
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- 
-

**Which layout on which situation?**

## Observations

- Huge amount of time & effort in manually hard-designing
  - For example...
- Different situations require different specific design decisions
  - For example, presentation of keyframes
- Dream of automatic multimedia presentation generation:  
designer's application knowledge & capability in design decisions in specific situations

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**Thank you**