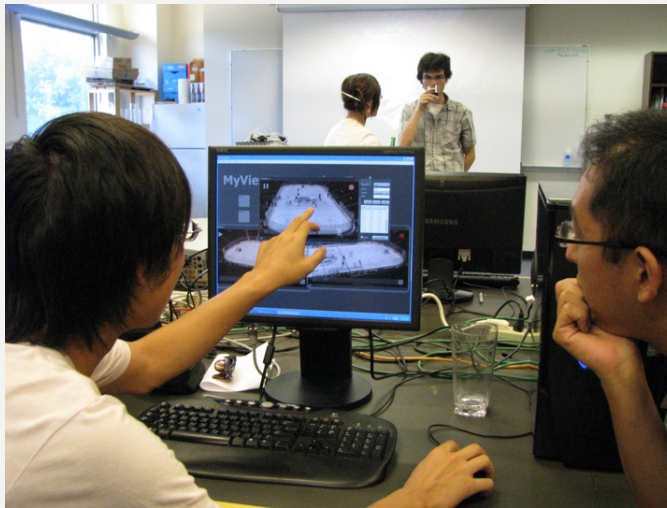


LFE Medieninformatik / MAGIC Lab, UBC
Final Presentation: Project Thesis
Thomas Bauer

Collaborative Video Annotation in Shared Workspace Environments





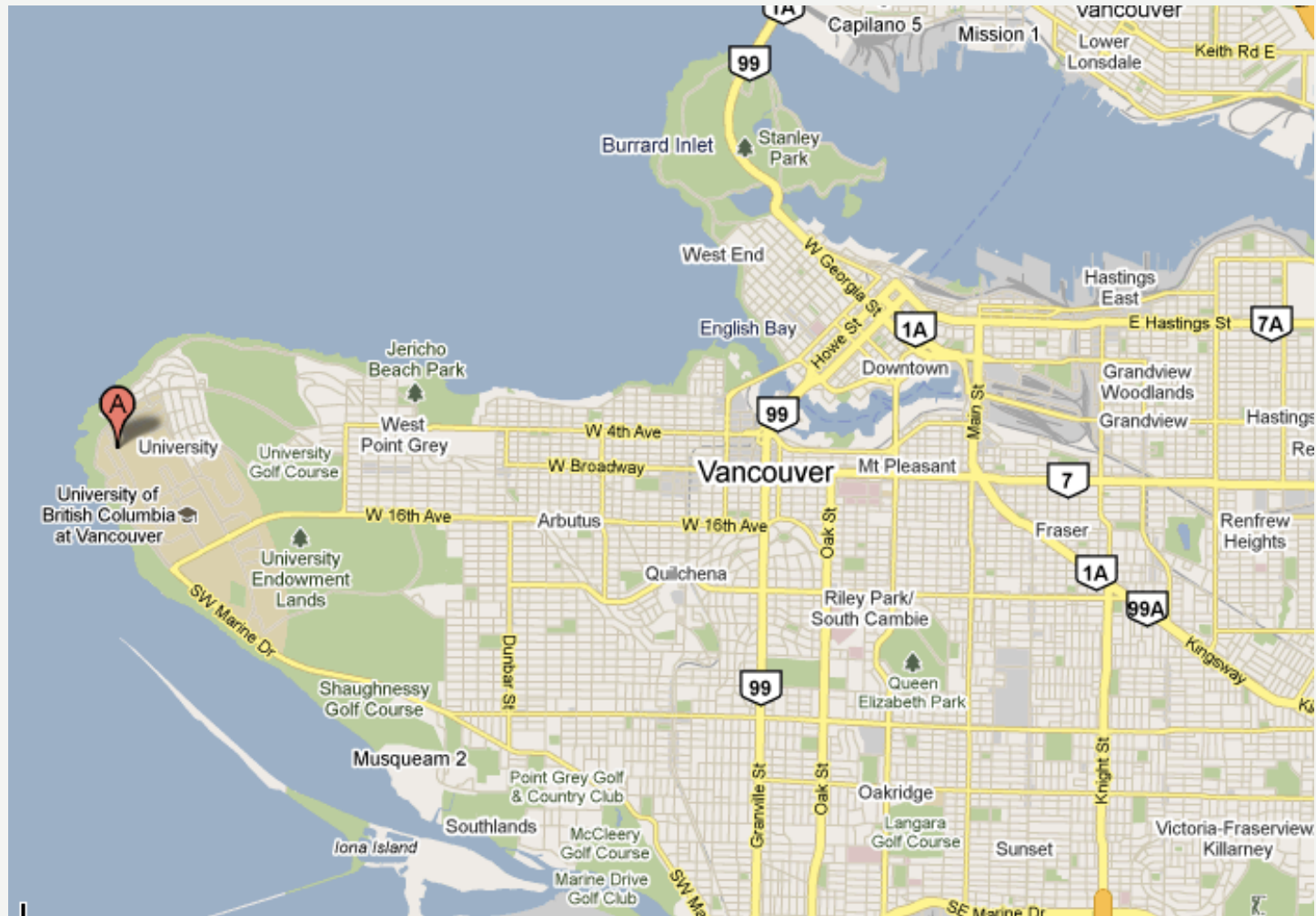
Outline

1. University of British Columbia: People and Labs
2. The MyView Project: An Overview
3. Video Annotation in Shared Workspace Environments
4. Questions?



1. University of British Columbia: People and Labs









Prof. Dr. Sid Fels
MAGIC Lab Director
HCT Lab Leader



Dr. Gregor Miller
MyView Project
Leader

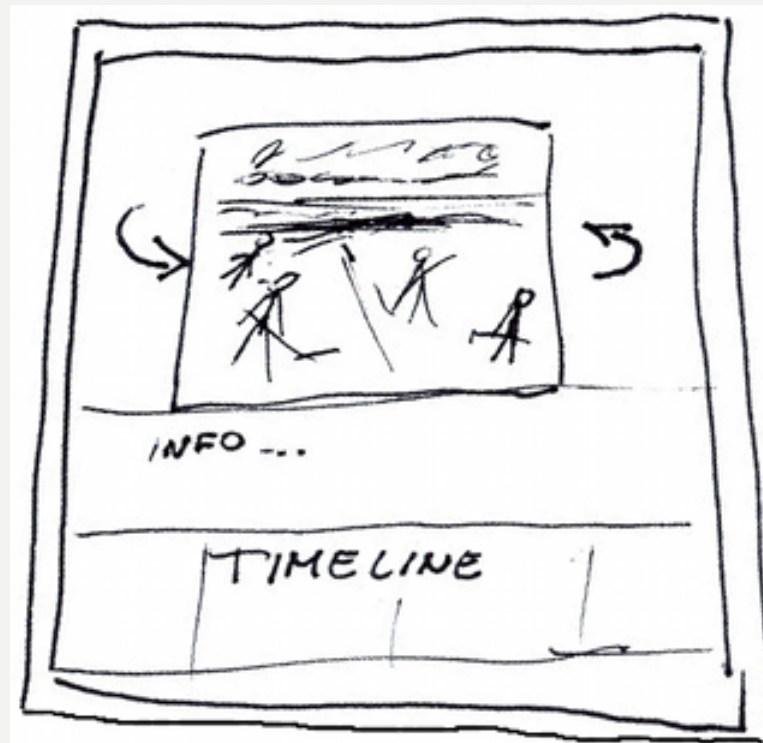


Dr. Hua Wang
MAGIC Lab



Dr. Matthias Finke
MAGIC Lab

2. The MyView Project: An Overview



Why MyView?

„Because your view sucks!“
– Dr. Gregor Miller

- No personalisation
- No interaction
- No search
- Single view



The current approach

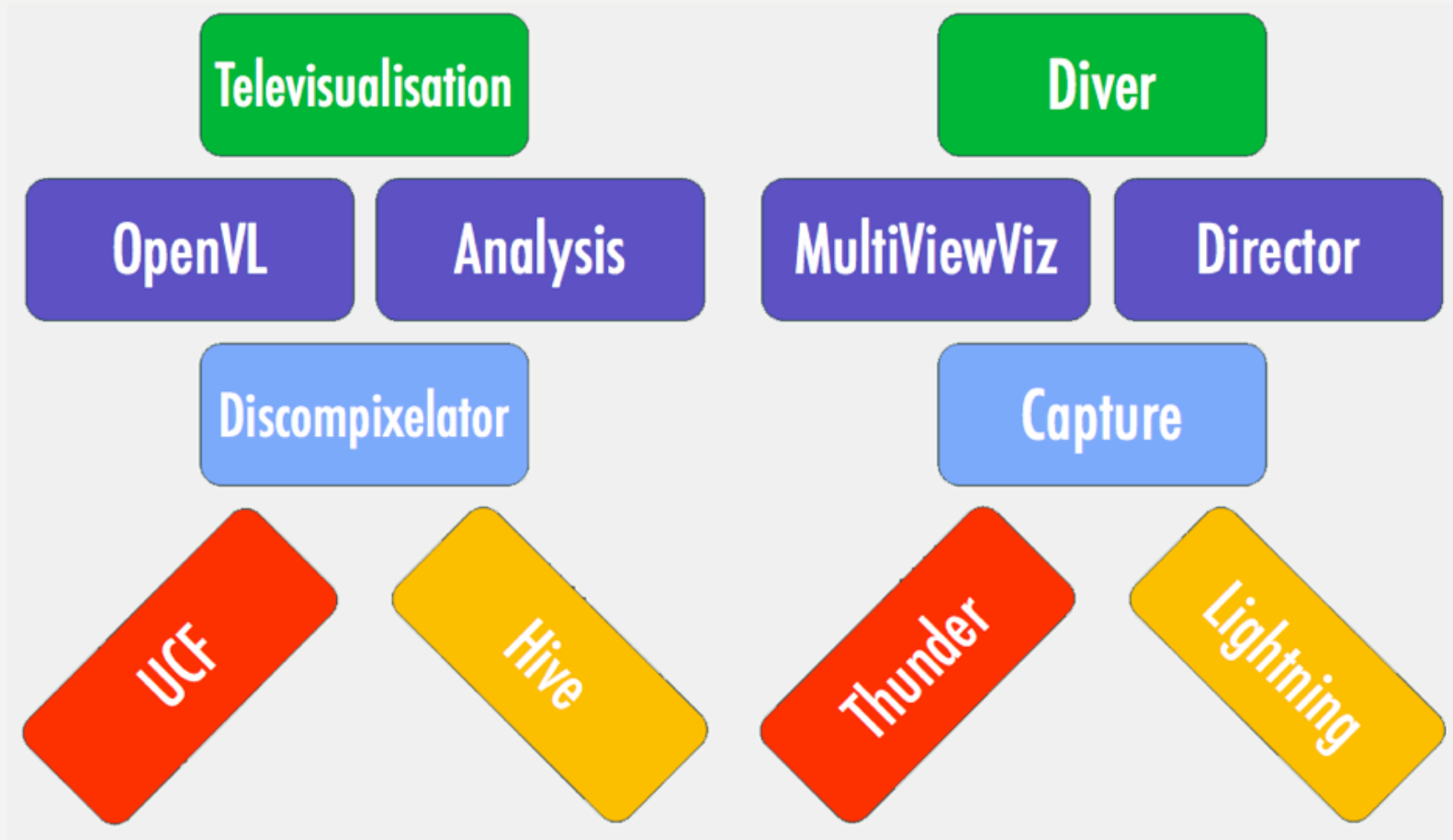


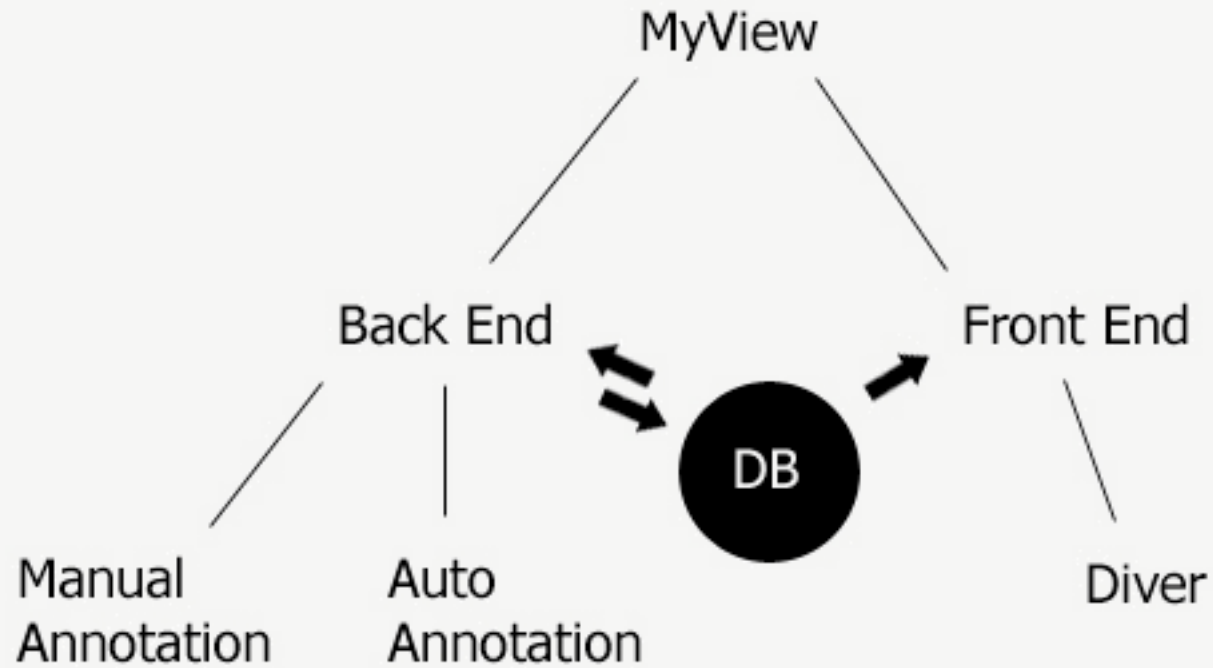
Model

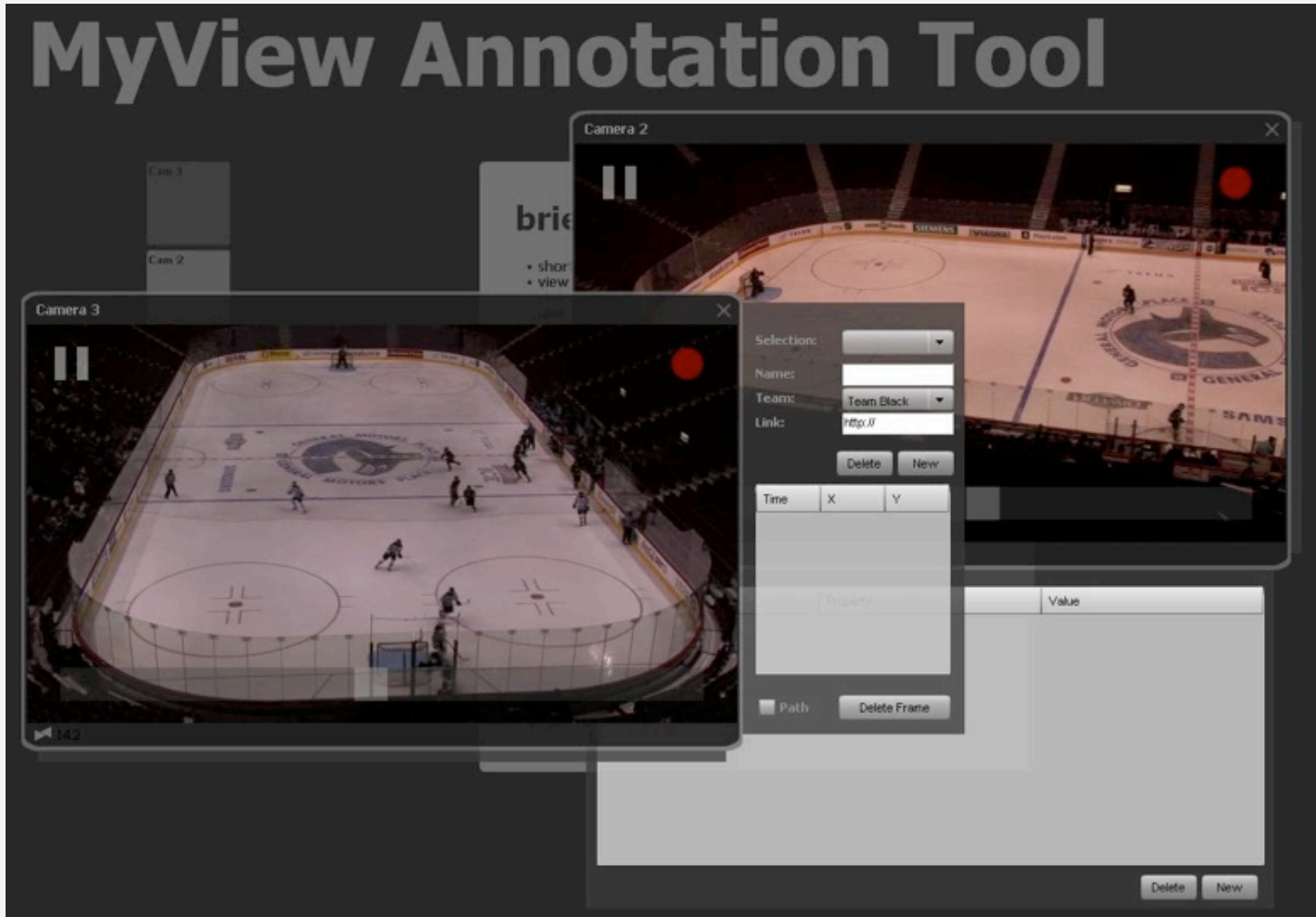


Model

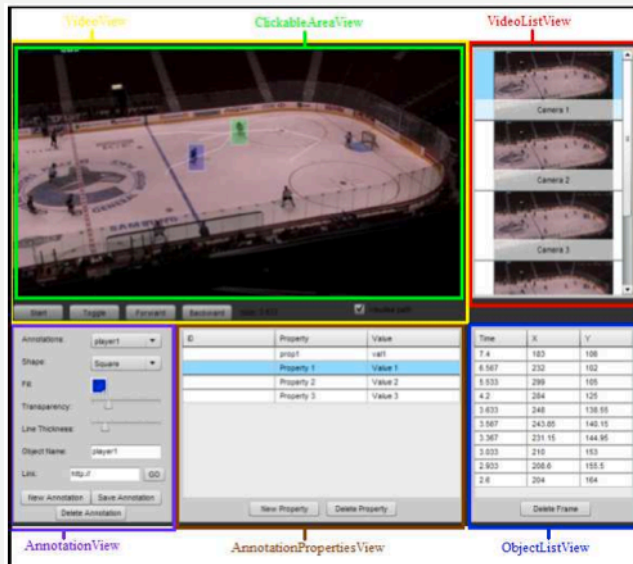








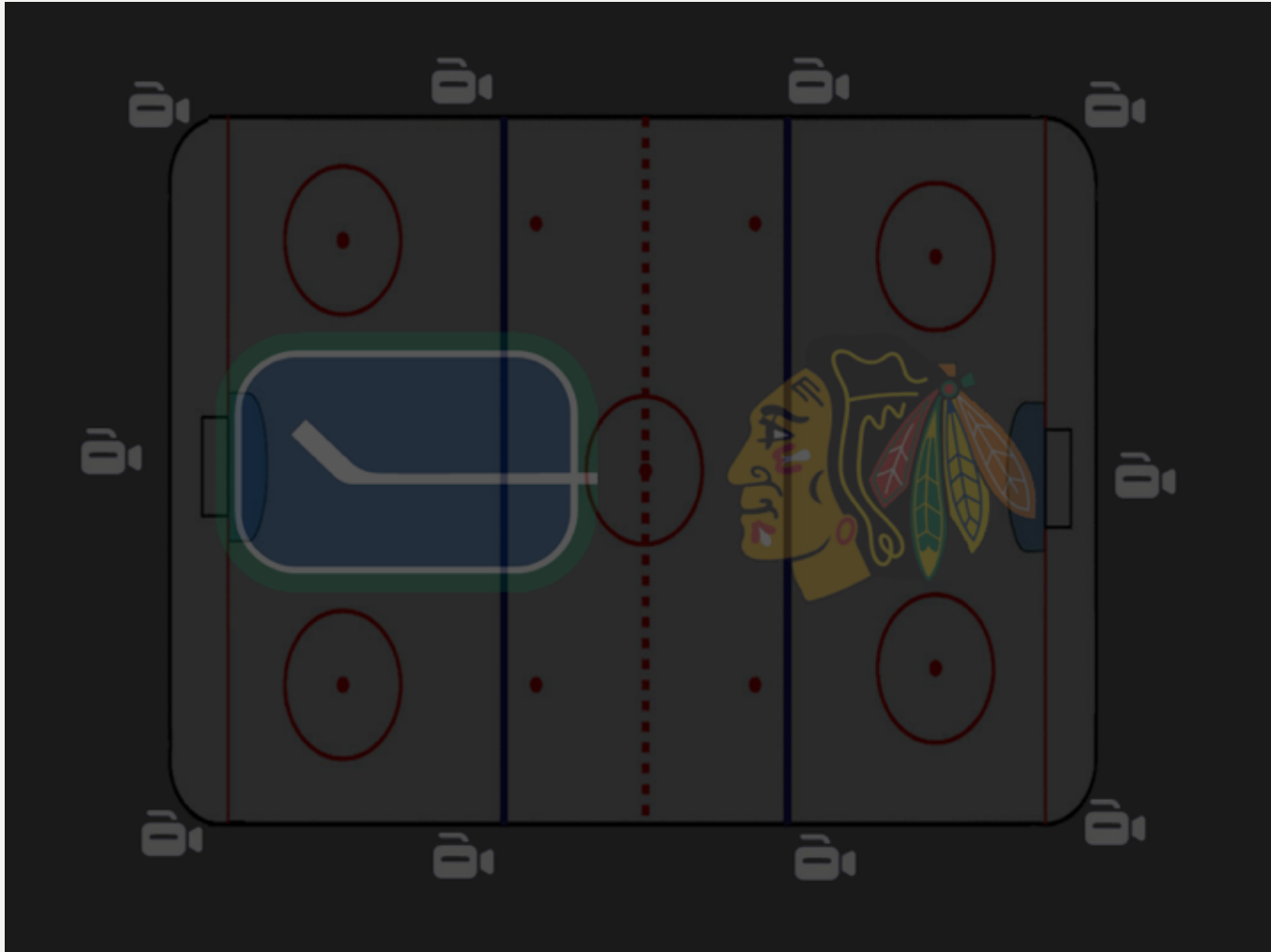
3. Video Annotation in Shared Workspace Environments



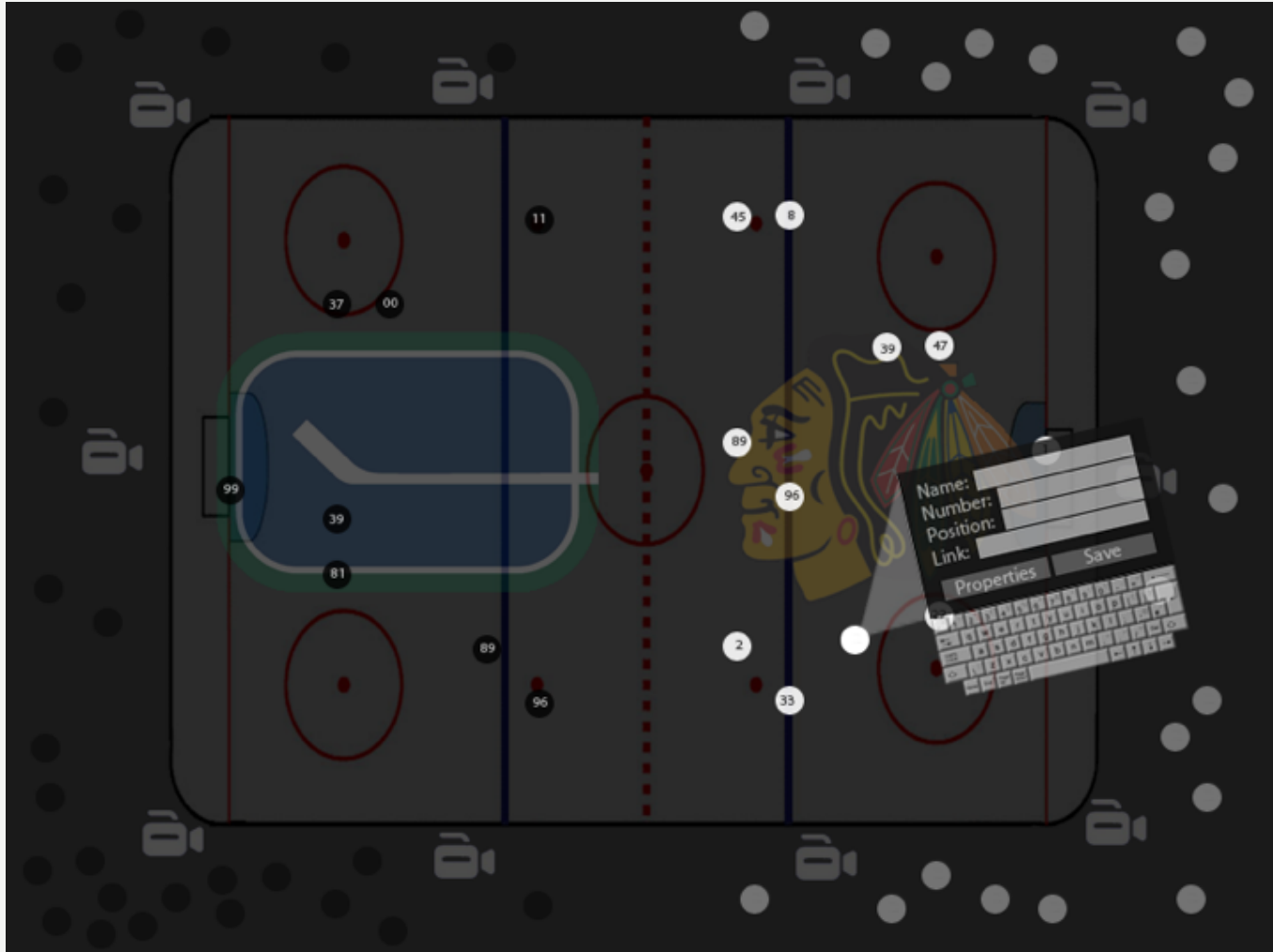
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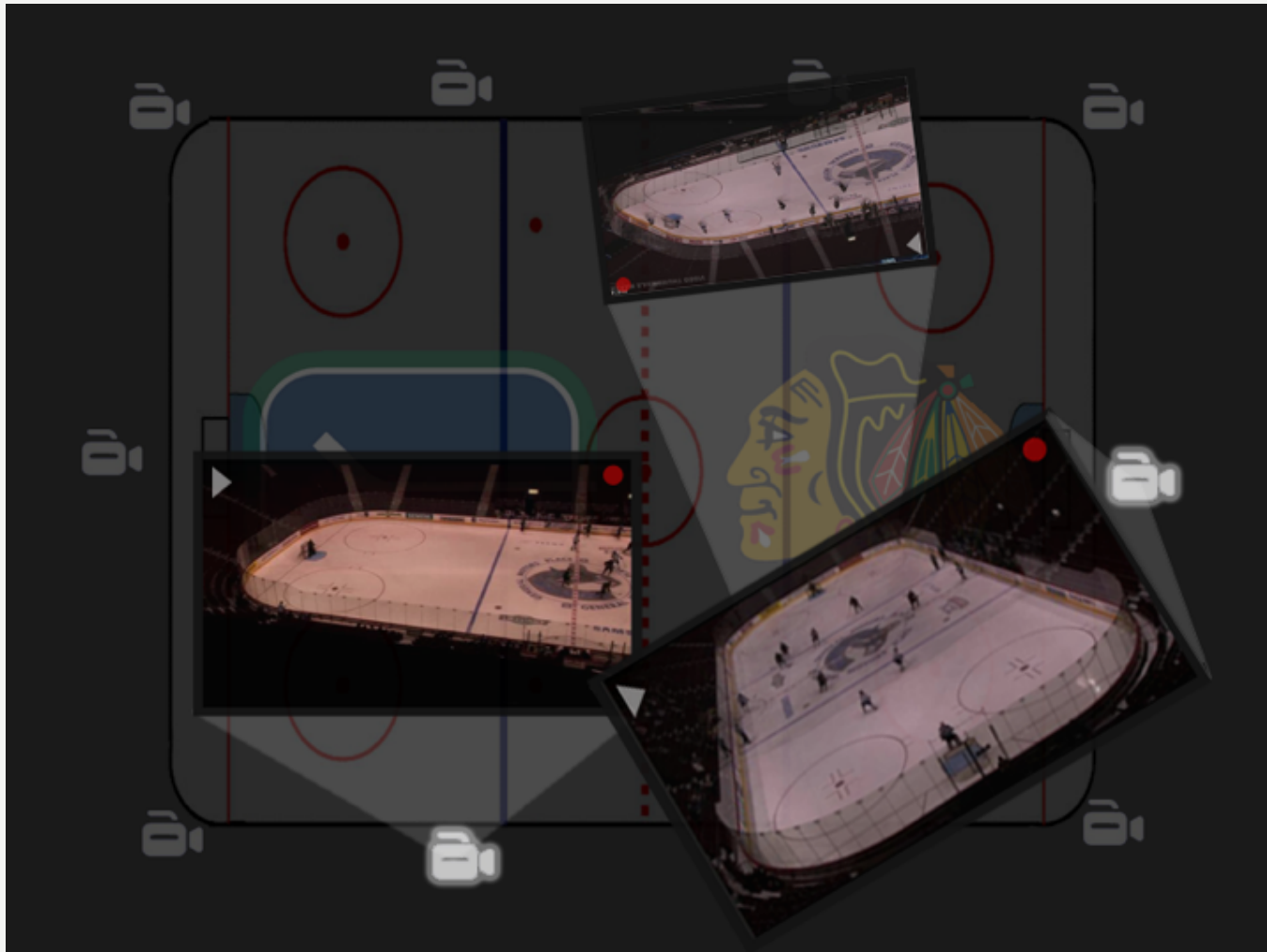


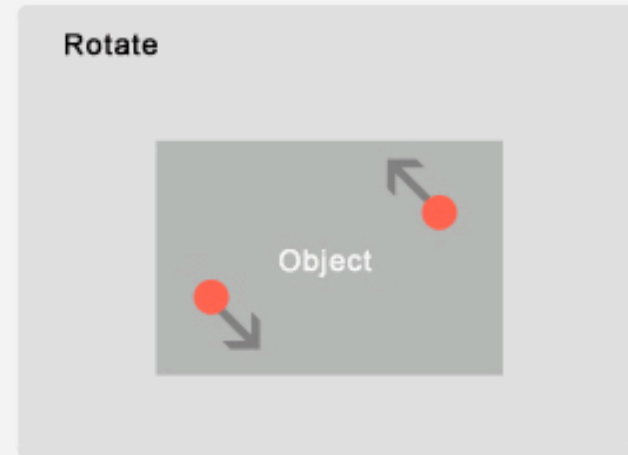
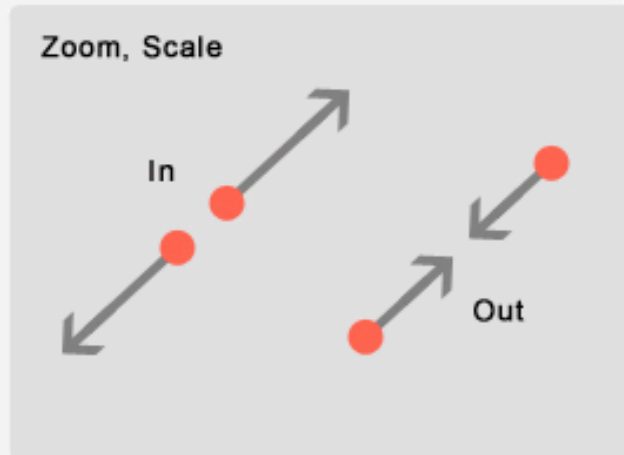
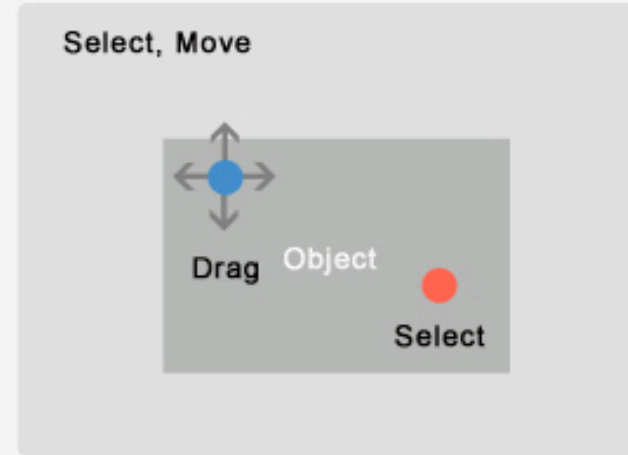
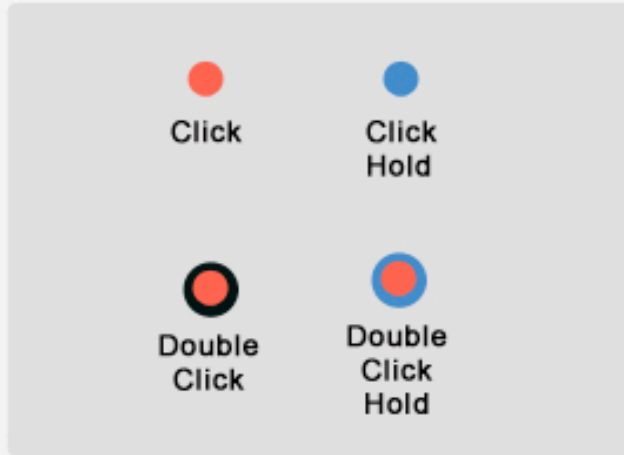


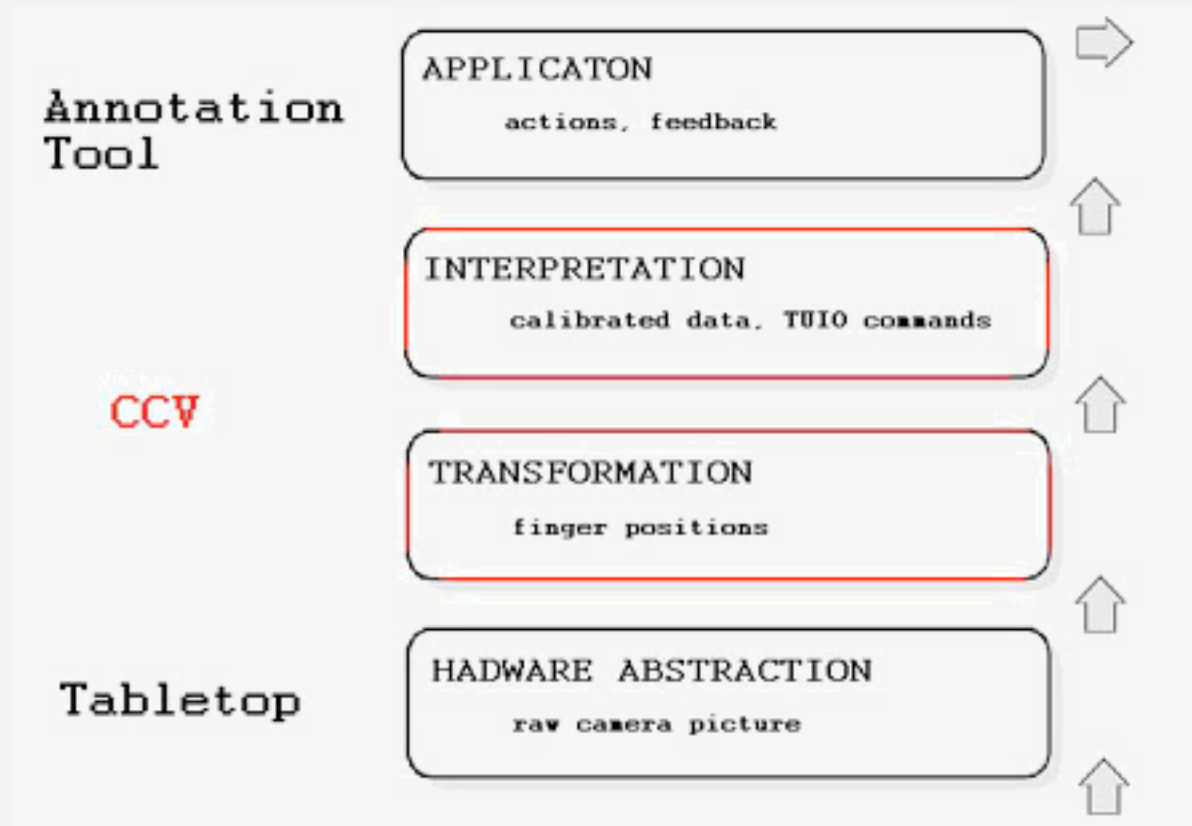
Guidelines

- Transitions between personal and group work
- Shared access to digital objects
- Simultaneous user actions
- Transition between tabletop and external work
- Appropriate arrangement of users

taken from: System Guidelines for Co-located, Collaborative Work on a Tabletop Display by Scott et al. (ECSCW'03)

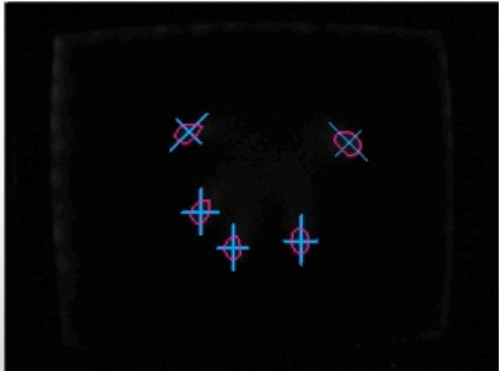






Community Core Vision

Source Image

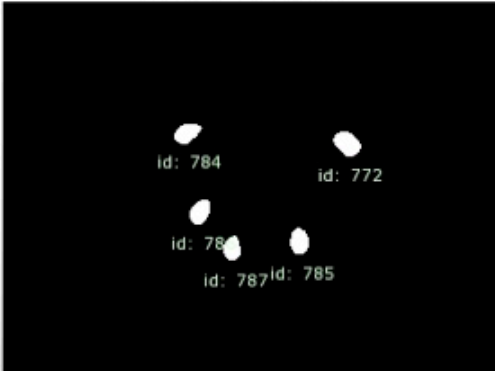


Source Image SHOW OUTLINES (O) SHOW IDS (I)

USE CAMERA PREVIOUS CAMERA NEXT CAMERA

USE VIDEO

Tracked Image



Tracked Image TRACK DARK BLOBS

IMAGE THRESHOLD: 3 MOVEMENT THRESHOLD: 2

MIN BLOB SIZE: 11 MAX BLOB SIZE: 157

Background

REMOVE BG (B)

DYNAMIC SUBTRACT

LEARN SPEED: 100

Smooth

SMOOTH: 4

Highpass

BLUR: 10

NOISE: 5

Amplify

AMPLIFY: 54

Source Properties

CAMERA SETTINGS (V)

FLIP VERTICAL (J)

FLIP HORIZONTAL (H)

GPU Properties

GPU MODE (G)

Communication

SEND TUIO OSC (T)

SEND TUIO TOP | FOR FLASH (F)

SEND HEIGHT & WIDTH

Calibration

ENTER CALIBRATION (C)

Files

SAVE SETTINGS (S)

Calc. Time [ms]: 3

Camera [Res]: 320 x 320

Camera [fps]: 116

Sending OSC messages to:

Host: 127.0.0.1

Port: 3333

Press spacebar to toggle fast mode

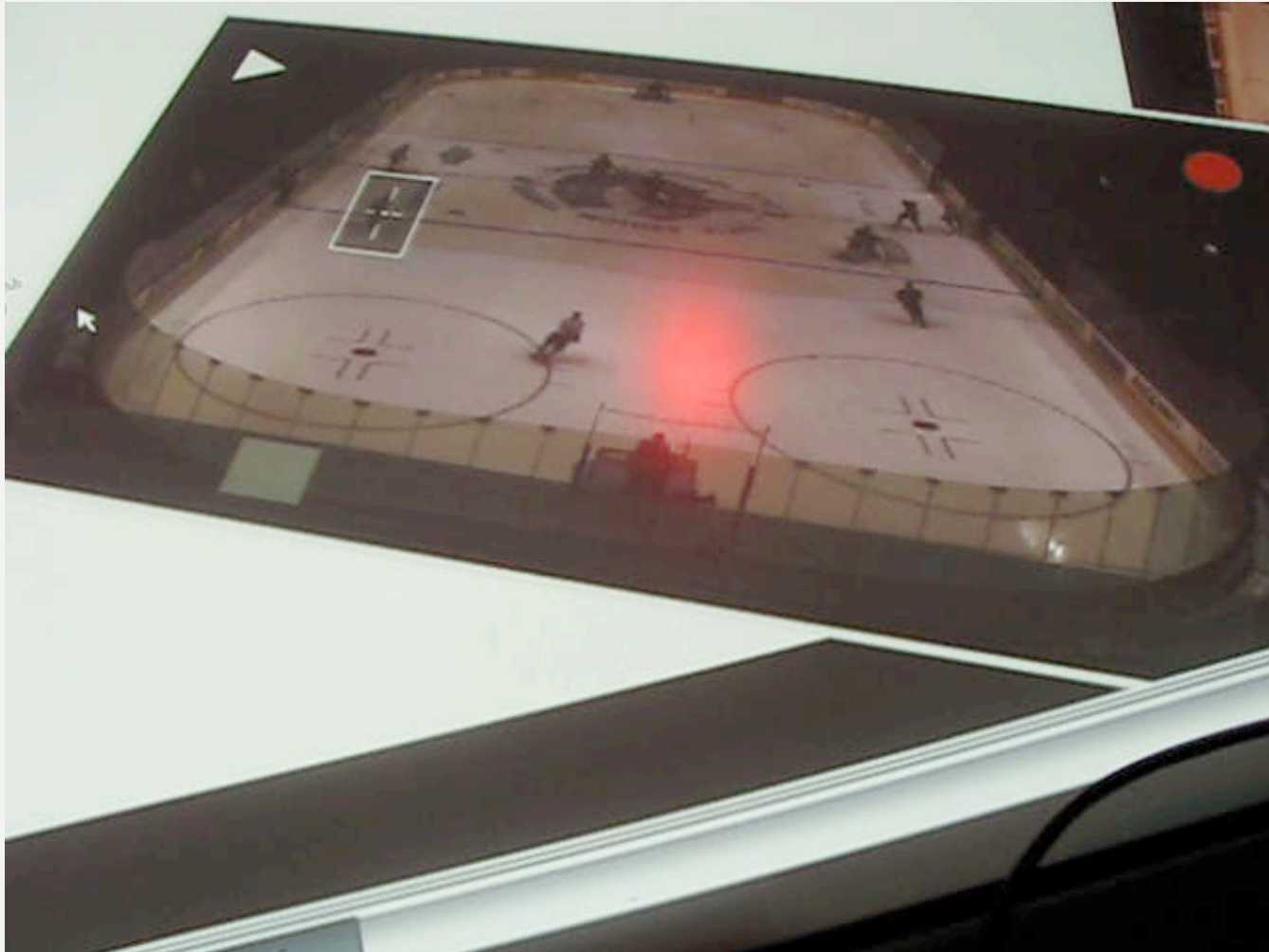
| " | tbeta.nuigroup.com

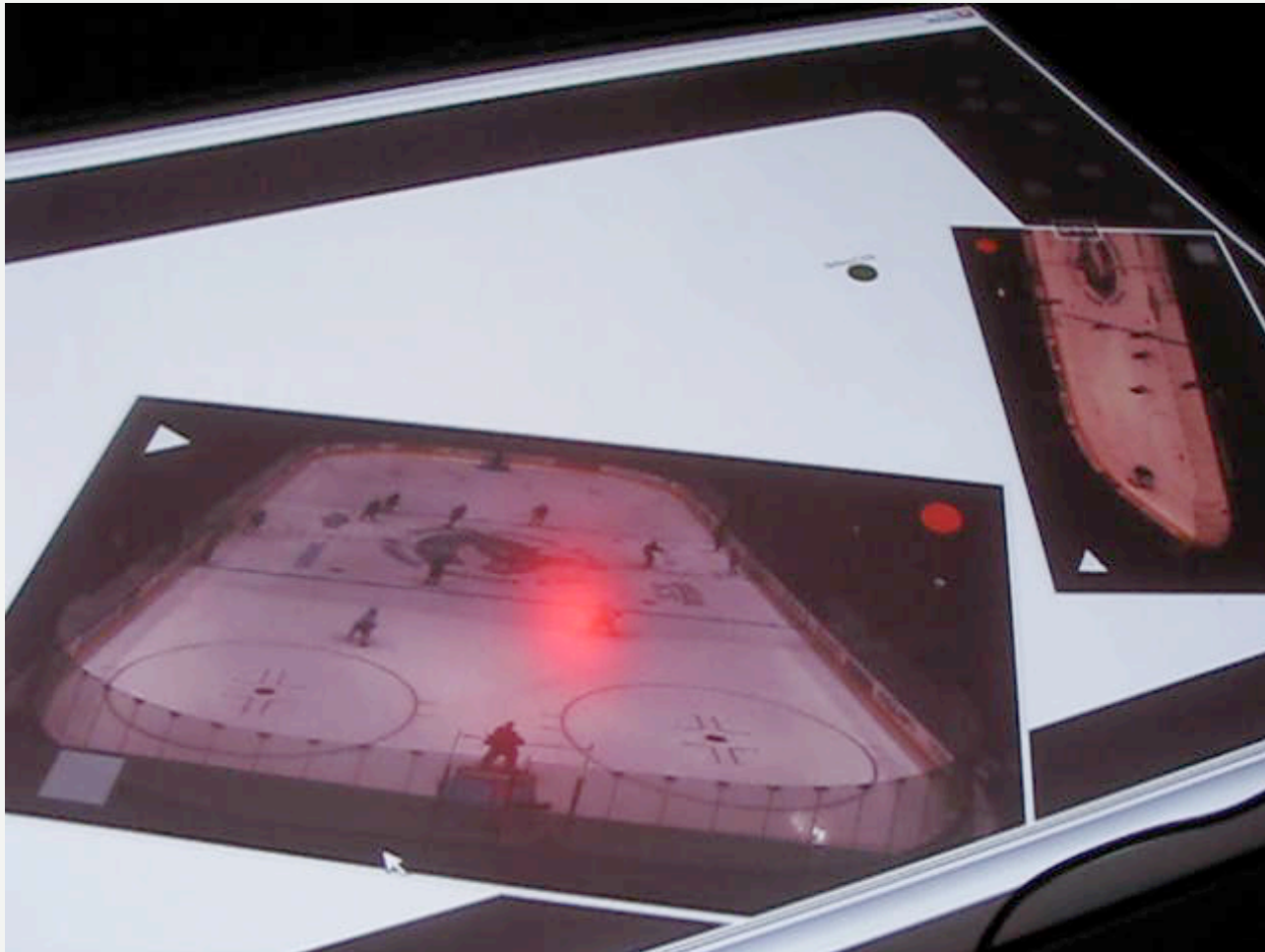


In the end...

- Running application with gesture commands**
- Time was short, no evaluation performed**

My project thesis is the description of the system.







5. Questions?

Corresponding URLs

<http://magic.ubc.ca/>

<http://hct.ece.ubc.ca/research/myview/index.html>

<http://NUIGroup.com>

Thank you.