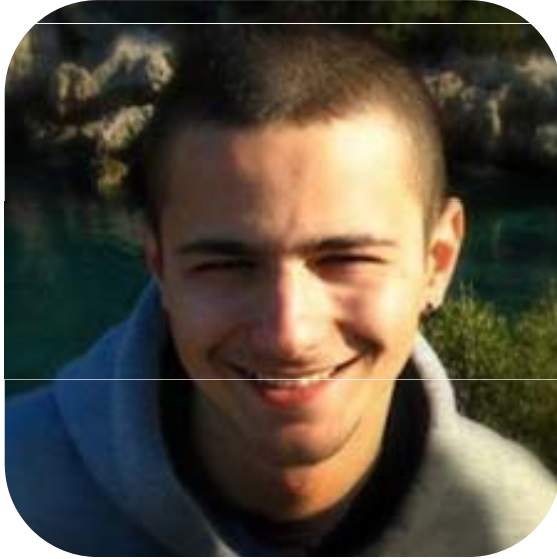




watch & touch
Project Presentation
by DialecTech

DialectTech Team



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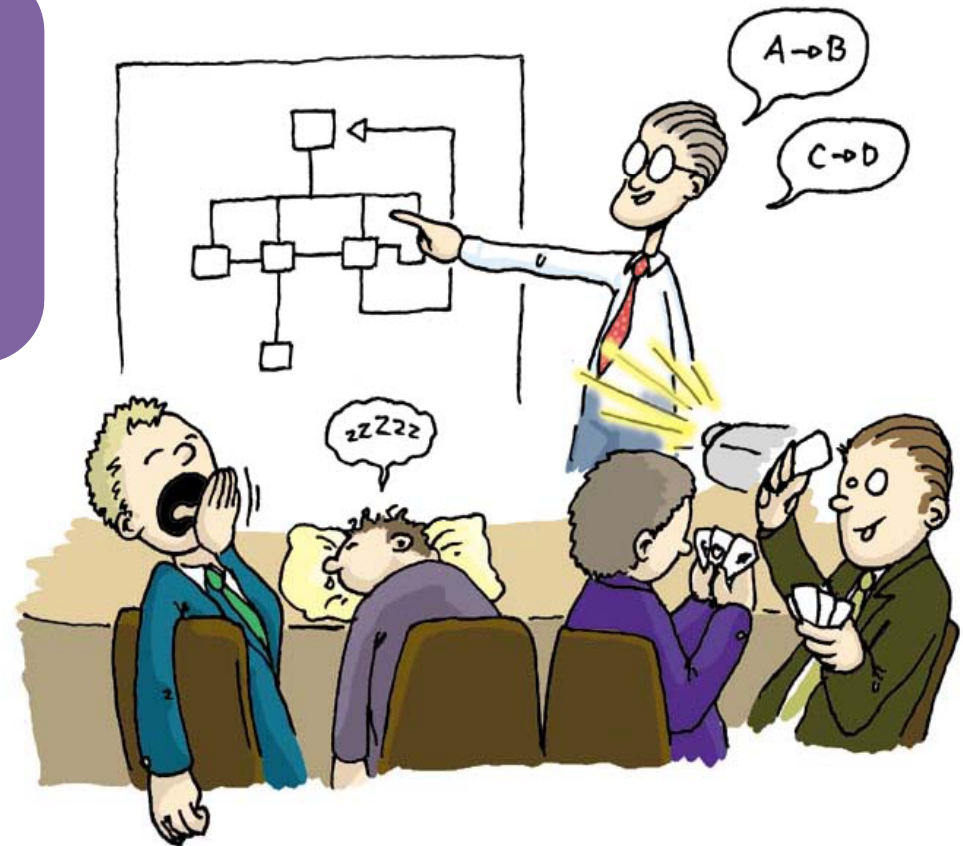
Giray Havur
*User Interface Designer,
Developer*

Problem Definition

Technology in education?

Commonly, level of interactivity not very high...

- displaying slides with projector
- no annotation capabilities, even acetate is better



Problem Definition

Solution: Interactive Whiteboard (IWB)

A whiteboard you can "play around" with

Many hardware & software solutions exist, but...

Existing interactive whiteboard solutions are either:

- expensive
- have limited capabilities
- cumbersome, difficult to use
- platform restricted

Problem Definition

Are existing interactive whiteboard solutions
EXPENSIVE?

Product Description	Current Price	Unit of Measure
500 Pro Range 87" ActivBoard with Fixed Stand and LCD short throw projector – 2 x Teacher & 2 x Student ActivPen 50 included. ActivInspire Professional Edition available FOC	\$ 4,199.30	each

Our Goal

Build on Johnny Chung Lee's ideas

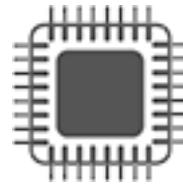
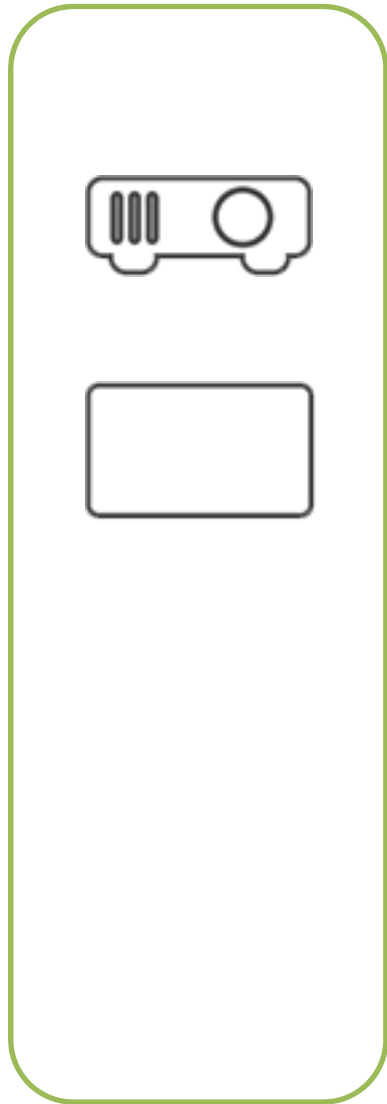
Create an IWB system which is...

- low cost (in terms of hardware)
- free & open source software
- multi-platform
- user friendly

Allow students to interact further

- collaborative drawing
- accessing the IWB

Watch & Touch System



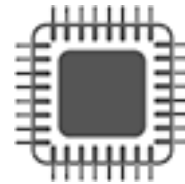
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network



Projector & Board

Watch & Touch System



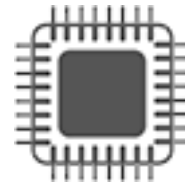
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network



WiiMote (IR Sensor)

Watch & Touch System



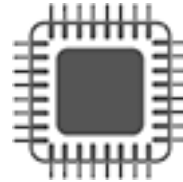
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network



IR Input
Devices
(IR Pen, IR Ring)

Watch & Touch System



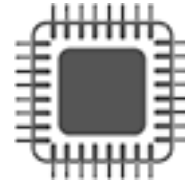
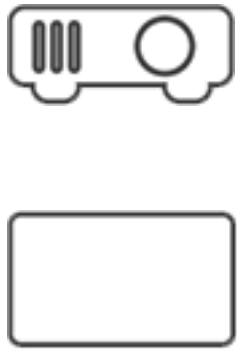
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network



Computer

Watch & Touch System

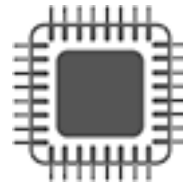


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Software

Watch & Touch System

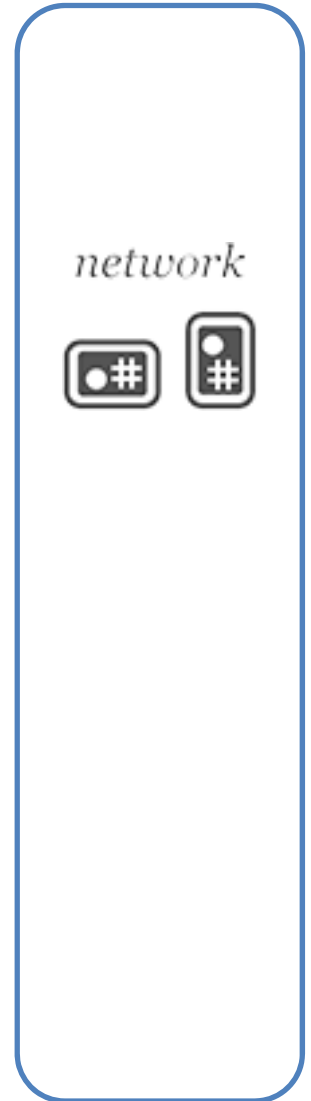


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network



Network
(for Collaboration)



Components of watch & touch

Hardware Components:

- Infrared Pen or "Infrared Rings"



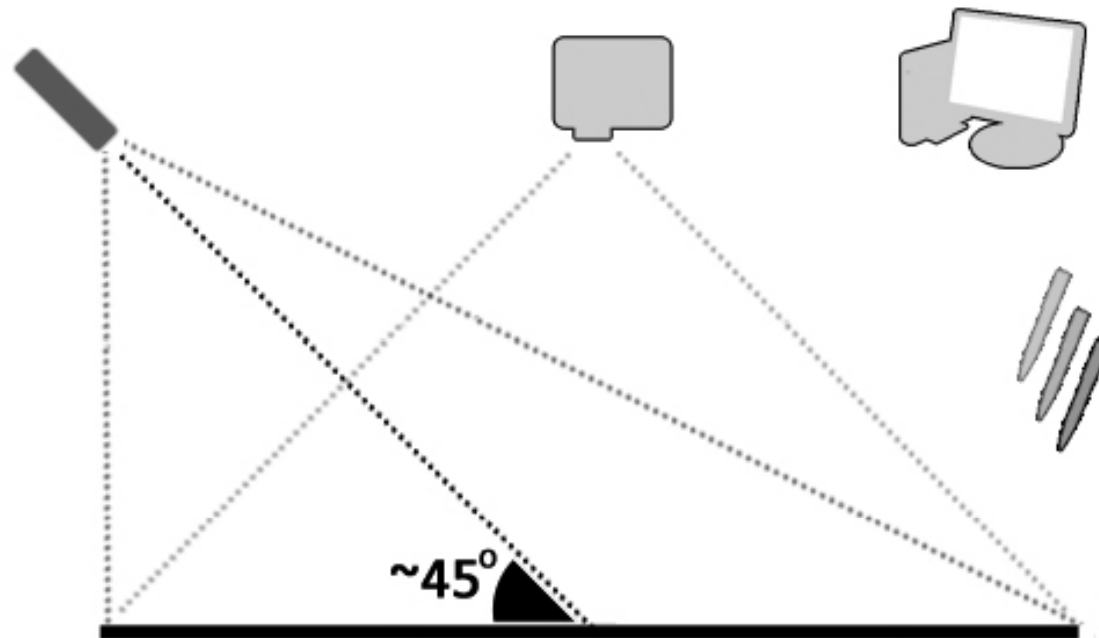
Components of watch & touch

Wiimote

Projector

Instructor's machine

(Optional) tablets for students



Components of watch & touch

Software Components:

- IWBC - interactive white board client
- CBC - collaboration client for students

Open Source (GPL v2)

- <http://code.google.com/p/watchntouch>

Built with the Qt framework

- multi-platform (Ubuntu and WinXP as test OSes)
- good choice for UI-centered apps

Features of the System

Content display and annotation

- presentations, webpages, videos
- auto-recall previous annotations
- export for handouts
- Google Docs support for presentations
- screencasting the whole operation

Features of the System

Sketching

Multi-touch gestures

Collaborative drawing

- students can join from own devices
- e-mailing the work
- instructor can collect all work automatically

Scenario 1

Scenario 2

Scenario 3



Thank you for listening!

Visit us:

<http://senior.ceng.metu.edu.tr/2011/dialecttech>



Questions?