



## WEB TECHNOLOGY

Class: II BCA

Mrs. P.Tharagaselvi

Assistant Professor

Department of Computer Applications

SRI AKILANDESWARI WOMEN'S COLLEGE, WANDIWASH  
SWAMY ABEDHANADHA EDUCATIONAL TRUST, WANDIWASH

## Lecture Contents

- Section-1:Introduction to Web Technology
- Section-2:Web 2.0 Concepts
- Section-3:Web Applications in Chrome store
- Section-4:Web Conferencing, Content Management System
- Section-5:Summary and Conclusion

# What is Web Technology

- Web technology is the development of the mechanism that allows two or more computer devices to communicate over a network.
- Web technologies related to the interface between web servers and their clients.

# Existing Technologies

- E-mail - Offline
- Static and Dynamic websites,
- Forums
- I-Pad and I-books
- Blogs , Wikis
- RSS aggregators
- web conferencing
- Instant messaging
- R3 Access
- Semantic web
- Quick Response Code
- Mobile Apps
- MOOCs, LMS, Reference Management systems

# Web 1.0 Vs Web 2.0

- Mp3.com --> Napster
- Britannica Online --> Wikipedia
- Personal websites --> blogging

# Web 2.0 Concepts

- Collaboration
- Sharing
- Ownership
- Creation
- Social Connection/Relationships
- Participation
- Decentralized

# Library 2.0 by Bonaria Biancu

- Browser + Web 2.0 Applications + Connectivity = Full-featured OPAC
- Harness the library user in both design and implementation of services
- Library users should be able to craft and modify library provided services
- Companies wanting to do business with public or academic libraries should not be creating proprietary software; Library 2.0 is not a closed concept.
- Constant change is replacing the older model of upgrade cycles
- Beta is forever
- Harvest and integrate ideas and products from peripheral fields into library service models
- Continue to examine and improve services and be willing to replace them at any time with newer and better services.
- Rigidity breeds failure

# Librarian 2.0

## Web 2.0 + Library = Library 2.0

Librarian 2.0 is the guru of the information age. Librarian 2.0 strives to

- Understand the power of the Web 2.0 opportunities
- Learn the major tools of Web 2.0 and Library 2.0
- Combine e-resources and print formats and is container and format agnostic
- Is device independent and uses and delivers to everything from laptops to iPods
- Develop targeted federated search and adopts the OpenURL standard
- Connect people and technology and information in context
- Doesn't shy away from non-traditional cataloging and classification and chooses tagging, tag clouds, folksonomies, and user-driven content descriptions and classifications where appropriate



# Cont

- Embrace non-textual information and the power of pictures, moving images, sight, and sound
- Understand the “long tail” and leverages the power of old and new content
- See the potential in using content sources like the Open Content Alliance, Google Print, and Open WorldCat
- Connect users to expert discussions, conversations, and communities of practice and participates there as well
- Use the latest tools of communication (such as Skype) to connect content, expertise, information coaching, and people
- Use and develops advanced social networks to enterprise advantage
- Connect with everyone using their communication mode of choice – telephone, Skype, IM, SMS, texting, email, virtual reference, etc.
- Encourage user driven metadata and user developed content and commentary
- Understand the wisdom of crowds and the emerging roles and impacts of the blogosphere, Web syndicasphere and wikisphere

Library 2.0 is not about searching, but finding; not about access, but sharing. Library 2.0 recognizes that human beings do not seek and utilize information as individuals, but as communities. Some examples of the move from Library 1.0 to Library 2.0 include:

- Email reference/Q&A pages ---> Chat reference
- Text-based tutorials ---> Streaming media tutorials with interactive databases
- Email mailing lists, webmasters ---> Blogs, wikis, RSS feeds
- Controlled classification schemes ---> Tagging coupled with controlled schemes
- OPAC ---> Personalized social network interface
- Catalog of largely reliable print and electronic holdings ---> Catalog of reliable and suspect holdings, web-pages, blogs, wikis, etc.



# Information Alert using Google Alert

**Google Alerts** Manage your Alerts

Create a Google Alert

Search terms	Type	How often
<input type="text"/>	News <input type="button" value="v"/>	once a day <input type="button" value="v"/>

Your Google Alerts

Search terms	Type	How often
<a href="#">chania</a>	News & Web	once a day
<a href="#">leyton orient</a>	News	once a day

Library and Information Centers are offering a variety of additional services; among these are alert services which present requested information on recent publications, renewals of books, new arrivals of books and so on. Google also providing the online information alert service for their users.

# Access to I-books using Chrome

The Google logo, consisting of the word "Google" in its signature multi-colored font.

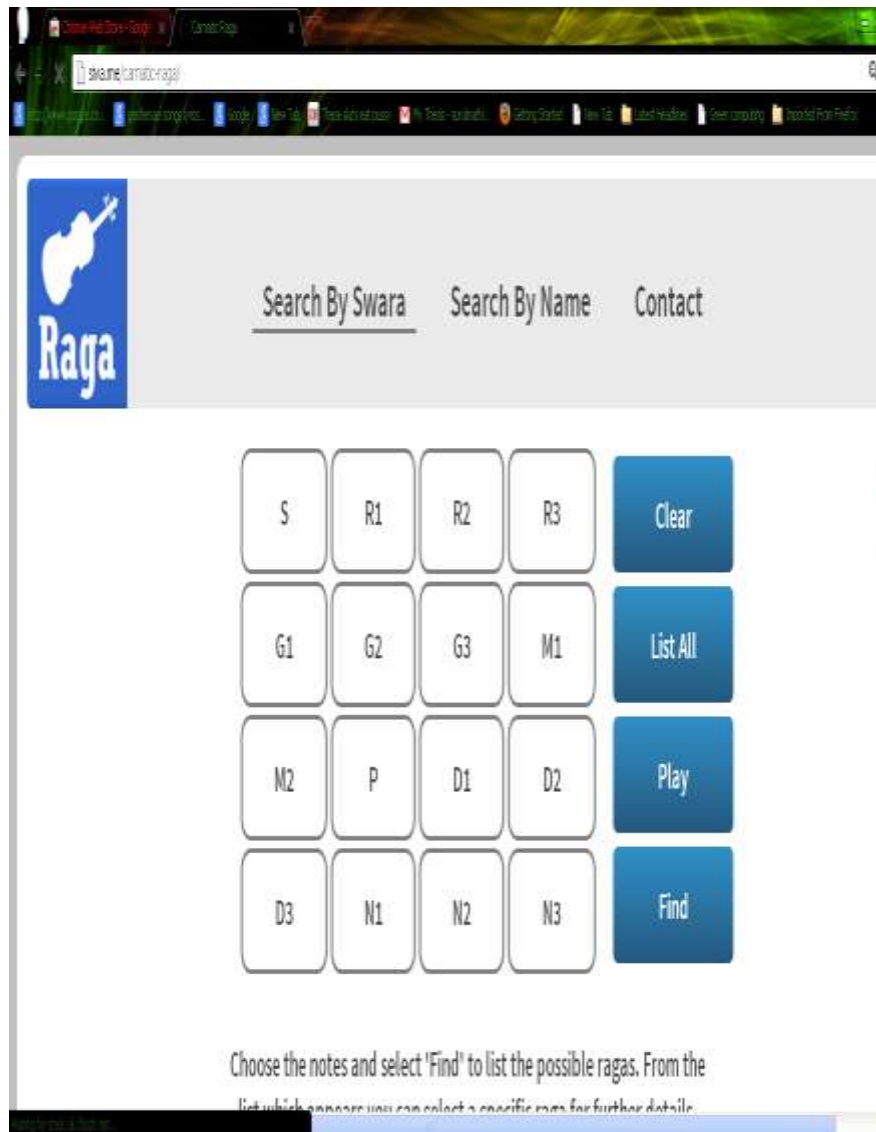
**Applications** are advanced websites that are similar to other types of programs that install on computer. The main difference is that apps are accessed and used entirely within the browser.

**Extensions** are custom features and functionality that can add to Google Chrome. Unlike apps, they're always available, no matter what website on.

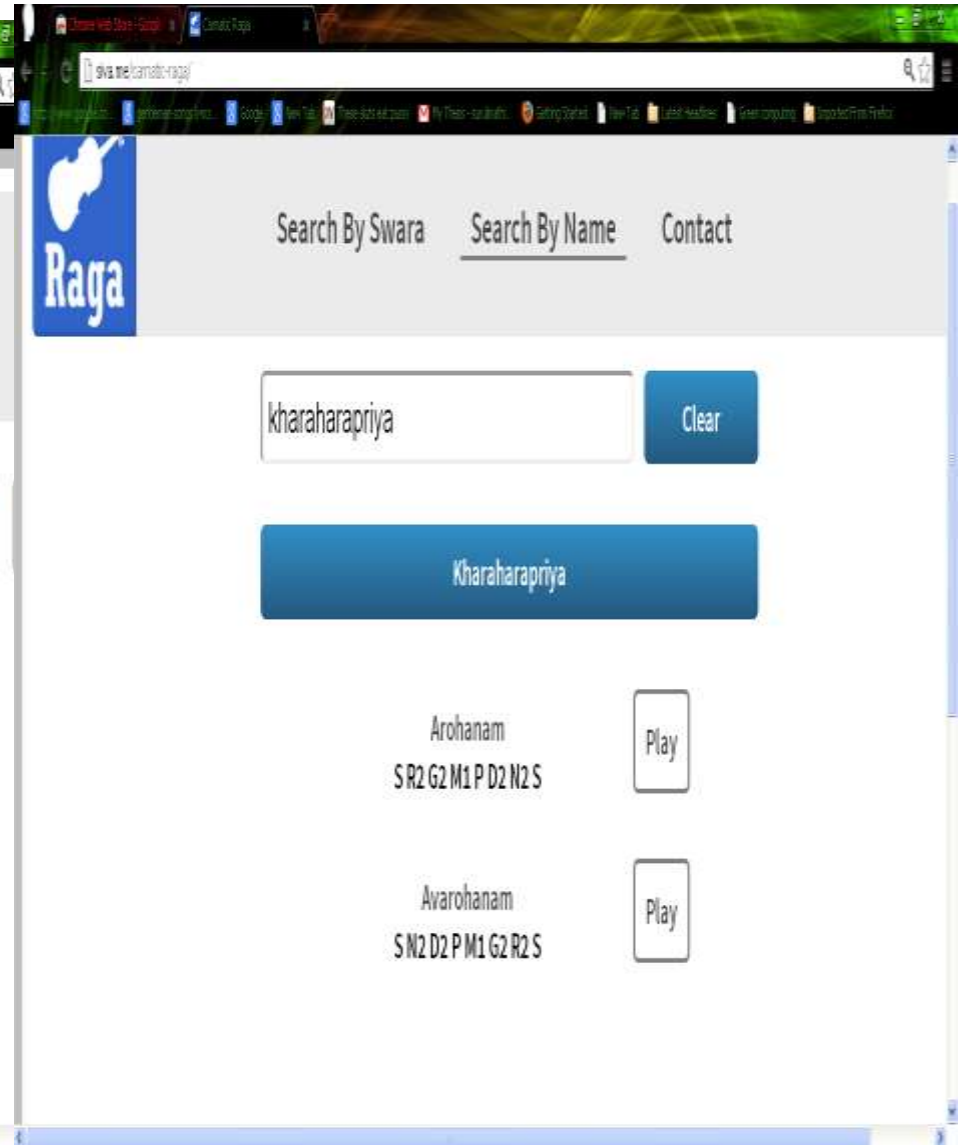
**Themes** change the skin of the Google Chrome browser, to give it a bit more style and flair. Choose from hundreds of eye-popping themes.



# Carnatic Raga Software



The screenshot shows the main interface of the Carnatic Raga Software. At the top left is the 'Raga' logo. Below it are three search options: 'Search By Swara', 'Search By Name', and 'Contact'. The 'Search By Swara' option is selected. Below these options is a 4x4 grid of buttons for selecting notes: S, R1, R2, R3; G1, G2, G3, M1; N2, P, D1, D2; and D3, N1, N2, N3. To the right of each row is a button: 'Clear', 'List All', 'Play', and 'Find'. At the bottom, there is a text instruction: 'Choose the notes and select 'Find' to list the possible ragas. From the list which appears you can select a specific raga for further details.'



The screenshot shows the search results for 'kharaharapriya'. At the top left is the 'Raga' logo. Below it are three search options: 'Search By Swara', 'Search By Name', and 'Contact'. The 'Search By Name' option is selected. Below these options is a search input field containing 'kharaharapriya' and a 'Clear' button. Below the input field is a large blue button displaying 'Kharaharapriya'. Below this button are two rows of results, each with a 'Play' button: 'Arohanam S R2 G2 M1 P D2 N2 S' and 'Avarohanam S N2 D2 P M1 G2 R2 S'.

# Gmail Offline

The screenshot displays a Gmail inbox interface. At the top, the browser address bar shows the URL <https://mail.google.com/mail/mu/mp/767/?mui=ca#t/Inbox>. The inbox list includes:

- Inbox (115)**
- Mani Kandan** (27) with a PDF attachment named **ppt**.
- veda, Nishy (2)** (27) with a subject line **[LIS-Forum] Application invited for the post Library Assistant**. The email body reads: "Hi Moderator, Request you to post this in LIS forum. Dear all, Application invited for the post".
- Prabhu lis** (27) with a subject line **[LIS-Forum] Need Library Assistant @ Coimbatore based Engg. College**. The email body reads: "Dear Professionals, Applications are invited for the post Library Assistant Qualification: BLISc."
- Dr Batra's** (27) with a subject line **Your Health is Wealth!! Get Healthy with Effective Treatment & No Side Effects..**. The email body reads: "If you are unable to view this mailer Click here You have received this mail because you are a member".
- Junaise Abdullah** (27) with a subject line **[LIS-Forum] SOUL 1.0 to 2.0**. The email body reads: "Dear all, We are planning to convert our software from SOUL 1.0 to SOUL 2.0. If any librarians".
- Joselyn Sonia** (27) with a subject line **sonia's photo**. The email body reads: "Hello Sir, Attached is my photo along with my signature in this mail. Please Check it. Regards".

A detailed view of the selected email from **veda, Nishy** is shown on the right side of the interface. The subject line is **[LIS-Forum] Application invited for the post Library Assistant**. The email body text is:

1 day ago  
Show details

Hi Moderator,

Request you to post this in LIS forum.

Dear all,

Application invited for the post Library Assistant

Qualification: BLISc.

Male candidate preferable.

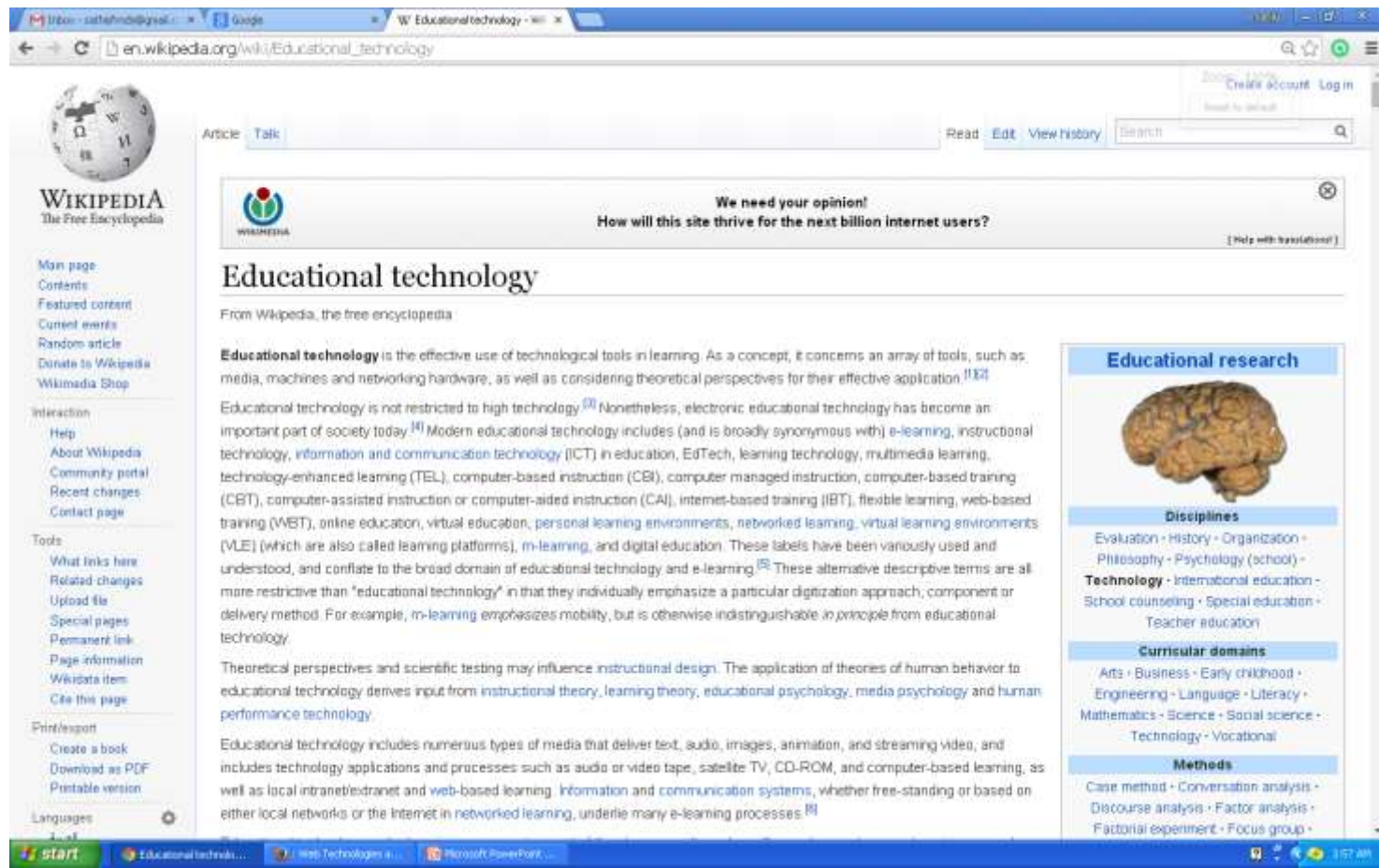
Kindly email your updated resume to

The bottom of the interface shows the email address **surulinathi@gmail.com**.



# Wiki

- A wiki invites all users to edit any page or to create new pages within the wiki Web site.



The screenshot shows a web browser window displaying the Wikipedia article for "Educational technology". The browser's address bar shows the URL "en.wikipedia.org/wiki/Educational\_technology". The page features the Wikipedia logo, a navigation menu on the left, and the main article content. A survey banner at the top asks for user opinions on the site's future. The article text discusses the use of technological tools in learning, including various methods like e-learning, ICT, and EdTech. A sidebar on the right lists related topics under "Educational research", "Disciplines", "Curricular domains", and "Methods".

**We need your opinion!**  
How will this site thrive for the next billion internet users?  
[Hide with translation]

## Educational technology

From Wikipedia, the free encyclopedia


**Educational technology** is the effective use of technological tools in learning. As a concept, it concerns an array of tools, such as media, machines and networking hardware, as well as considering theoretical perspectives for their effective application.<sup>[1][2]</sup>

Educational technology is not restricted to high technology.<sup>[3]</sup> Nonetheless, electronic educational technology has become an important part of society today.<sup>[4]</sup> Modern educational technology includes (and is broadly synonymous with) e-learning, instructional technology, information and communication technology (ICT) in education, EdTech, learning technology, multimedia learning, technology-enhanced learning (TEL), computer-based instruction (CBI), computer managed instruction, computer-based training (CBT), computer-assisted instruction or computer-aided instruction (CAI), internet-based training (IBT), flexible learning, web-based training (WBT), online education, virtual education, personal learning environments, networked learning, virtual learning environments (VLE) (which are also called learning platforms), m-learning, and digital education. These labels have been variously used and understood, and conflate to the broad domain of educational technology and e-learning.<sup>[5]</sup> These alternative descriptive terms are all more restrictive than "educational technology" in that they individually emphasize a particular digitization approach, component or delivery method. For example, m-learning emphasizes mobility, but is otherwise indistinguishable in principle from educational technology.

Theoretical perspectives and scientific testing may influence instructional design. The application of theories of human behavior to educational technology derives input from instructional theory, learning theory, educational psychology, media psychology and human performance technology.

Educational technology includes numerous types of media that deliver text, audio, images, animation, and streaming video, and includes technology applications and processes such as audio or video tape, satellite TV, CD-ROM, and computer-based learning, as well as local intranet/extranet and web-based learning. Information and communication systems, whether free-standing or based on either local networks or the Internet in networked learning, underlie many e-learning processes.<sup>[6]</sup>

### Educational research



#### Disciplines

- Evaluation · History · Organization · Philosophy · Psychology (school) · **Technology** · International education · School counseling · Special education · Teacher education

#### Curricular domains

- Arts · Business · Early childhood · Engineering · Language · Literacy · Mathematics · Science · Social science · Technology · Vocational

#### Methods

- Case method · Conversation analysis · Discourse analysis · Factor analysis · Factorial experiment · Focus group ·

# Rich Site Summary

- RSS is a structured XML-based metadata schema used to distribute news items through a web medium.
- RSS is a family of Web feed formats used to publish frequently updated content .



## THE HINDU

Online edition of India's National Newspaper

### RSS Feeds

#### News Update

#### News

- Front Page
  - National
  - States:
    - Tamil Nadu
    - Andhra
    - Karnataka
    - Kerala
    - New Delhi
    - Other States
  - International
  - Opinion
  - Business
  - Sport
  - Miscellaneous
- #### Index

- Specials
- In Focus
- Photo Gallery
- Events 2004

- Features:
- Life
- Magazine
- Literary Review

Really Simple Syndication (RSS) is an XML-based format for content distribution. The Hindu offers RSS feeds for personal and non-commercial use by the user. These feeds include latest published headlines, summaries and provide links for full text at The Hindu website.

#### The Hindu - News Update Service

- News Update

#### The Hindu - Main Section

- Front Page
- National
- International
- Opinion
- Business
- Sport
- Weather / Religion / Crossword / Cartoon
- Engagements

#### The Hindu Regional Section

- Tamil Nadu
- Andhra Pradesh
- Karnataka

AdChoices

**See Your Ad  
On Google**

[www.Google...](http://www.Google...)

Advertise Your  
Business On  
Google. Get A  
Free Rs. 2,000  
Trial Coupon!



# Web Conferencing

The screenshot shows the Cisco WebEx website for Small & Medium Business. The top navigation bar includes links for India (Change), Support, Buy, and Contact Sales. The main content area features a large banner with a man in a blue shirt and tie sitting at a laptop, with the text "Web Meetings Save time and money. Connect with anyone, anywhere." and "Try WebEx Free." Below the banner, there are sections for "Share Presentations With Anyone, Anywhere" and "WebEx Meeting Center™ Get the best on-demand web meetings". The left sidebar contains a navigation menu with options like Overview, Web Meetings, Meeting Center, Webinars, Online Events, IT Support, Customer Support, eLearning Solutions, WebEx Audio, and Telework. The bottom left has contact information for sales and chat.

- **Web conferencing** is used to conduct live meetings, training, or presentations via the Internet.
- Slide show presentations
- Live or Streaming video - where full motion webcam.
- Meeting Recordings



You aren't signed in. [Sign In](#) [Help](#)

[Home](#) [The Tour](#) [Sign Up](#) [Explore](#)

Search

# Heading home - Association for Rural & Small Libraries (ARSL) Conference in Gatlinburg, TN

Uploaded on November 23, 2008  
by [Library Development @ Washington State Library](#)

[Library Development @ Washington State Library's photostream](#)



This photo also belongs to:

[ARSL 2008, Gatlinburg, TN \(Set\)](#)



Tags

- conference
- ARSL

# facebook

Sign Up

**Librarians and Facebook is on Facebook**

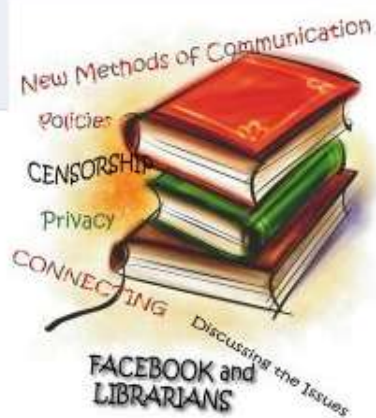
Sign up for Facebook to connect with Librarians and Facebook.

Librarians and Facebook [Join](#)

[Wall](#) [Info](#) [Photos](#) [Discussions](#)

### Basic Info

Name: Librarians and Facebook  
Category: Organizations - Academic Org  
Description: Discussion of how librarians a students, censorship issues,  
Privacy Type: Open: All content is public.



### Information

Category: Organizations - Academic Organizations  
Description: Discussion of how librarians are using Facebook to communicate with students, censorship issues, privacy issues, ect.  
Privacy Type: Open: All content is public.

# Content Management System

- A content management system (CMS) is a system used to manage the content of a Web site.
- Content Management Systems:-



# Compilation of Citation profile using Google Scholar

Palaniandavar Mallayan - Google Scholar  
lar.google.co.in/citations?user=9RDSMqIAAAAJ&hl=en&oi=ao

re...



## Palaniandavar Mallayan

Professor of Chemistry  
Bioinorganic Chemistry  
Verified email at cutn.ac.in

### Citation indices

	All	Since 2008
Citations	3381	2321
h-index	30	27
i10-index	74	53

### Citations to my articles



Show: 20 1-20 Next >

Title / Author

Cited by Year

DNA binding and cleavage properties of certain tetrammine ruthenium (II) complexes of modified 1, 10-phenanthrolines—effect of hydrogen-bonding on DNA-binding affinity

239 2004

P Uma Maheswari, M Palaniandavar  
Journal of inorganic biochemistry 98 (2), 219-230

Spectroscopic and voltammetric studies on copper complexes of 2, 9-dimethyl-1, 10-phenanthrolines bound to calf thymus DNA

# Smart Surveillance System

- As smart surveillance technology becomes a critical component in security infrastructures.

- This concept considers the example of smart surveillance in an Library security environment.



# Free Websites

- Geocities
- Google Pages
- Webs
- Weebly
- Webnode
- Wix
- Big Rock
- Yola and so on



# FLICKR

The screenshot shows a web browser window displaying the Flickr website. At the top, there is a navigation bar with the Flickr logo and links for Home, The Tour, Sign Up, Explore, and Upload. A search bar is located on the right side of the navigation bar. Below the navigation bar, a large blue banner with a rainbow on the left and a cloud with a sad face in the center reads "Hey, wait a minute!". Below this banner, a message states: "We noticed that you may be using an unsupported browser. All the basics will still work, but to get the most out of Flickr please upgrade to the latest version of Chrome, Safari, Firefox, or Internet Explorer." To the right of the message are icons for Chrome, Safari, Firefox, and Internet Explorer. Below the banner, there are "Actions" and "Share this" buttons on the left, and "Newer" and "Older" navigation arrows on the right. The main content area features a large photo of a public library building with a sign that reads "PUBLIC LIBRARY". To the right of the photo, the user information is displayed: "By Hennepin County Library" with a red "x" icon and "No real name given". Below this, it says "This photo was taken on June 7, 2006 using a Nikon E4600." and "40 views". Further down, it says "This photo belongs to" followed by "Hennepin County Library's photo... (848)" and a row of five small thumbnail images. Below that, it says "This photo also appears in" followed by "Hennepin County Libraries (set)". At the bottom, there is a "License" section with "All Rights Reserved" and a Creative Commons icon.

- Flickr is an image hosting and video hosting website

- The best online photo management and sharing application in the world.

# Group mail for discussion

Search Groups

Search Web



 Sweet Love pendant  
₹ 4,728\* [BUY NOW](#)

 BlueStone.com

T&C Apply

salis\_info · SALIS E-Group

Home

Members Only

- Messages
- Post
- Attachments
- Files
- Photos
- Links
- Database
- Polls
- Members
- Calendar
- Promote

Home

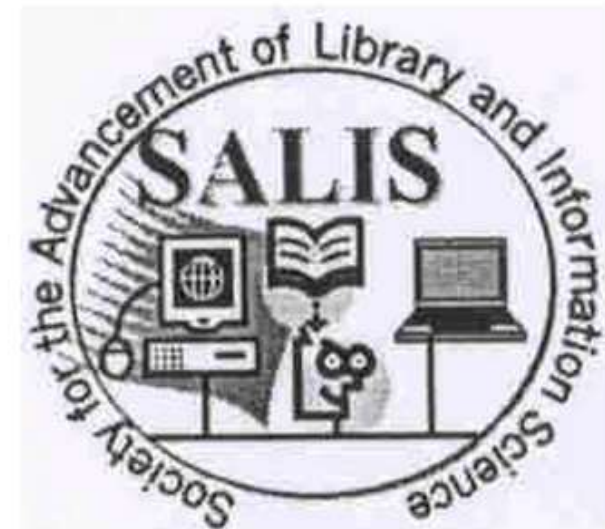
Join This Group!

Activity within 7 days: 1 New Member - 24 New Messages

Description

This is the E-Group of the Society for the Advancement of Library and Information Science(SALIS) members belongs to the SALIS chapters at Chennai, Trichy, Coimbatore, Tirunelveli, Vellore, Erode, Delhi and Nagpur. SALIS has been established for the Development of Library and Information Science and SALIS E-Group has been established for exchange of information and ideas among the members.

This is the decennial year of SALIS.



The Yahoo! Groups Product Blog

[Check it out!](#)

Info Settings

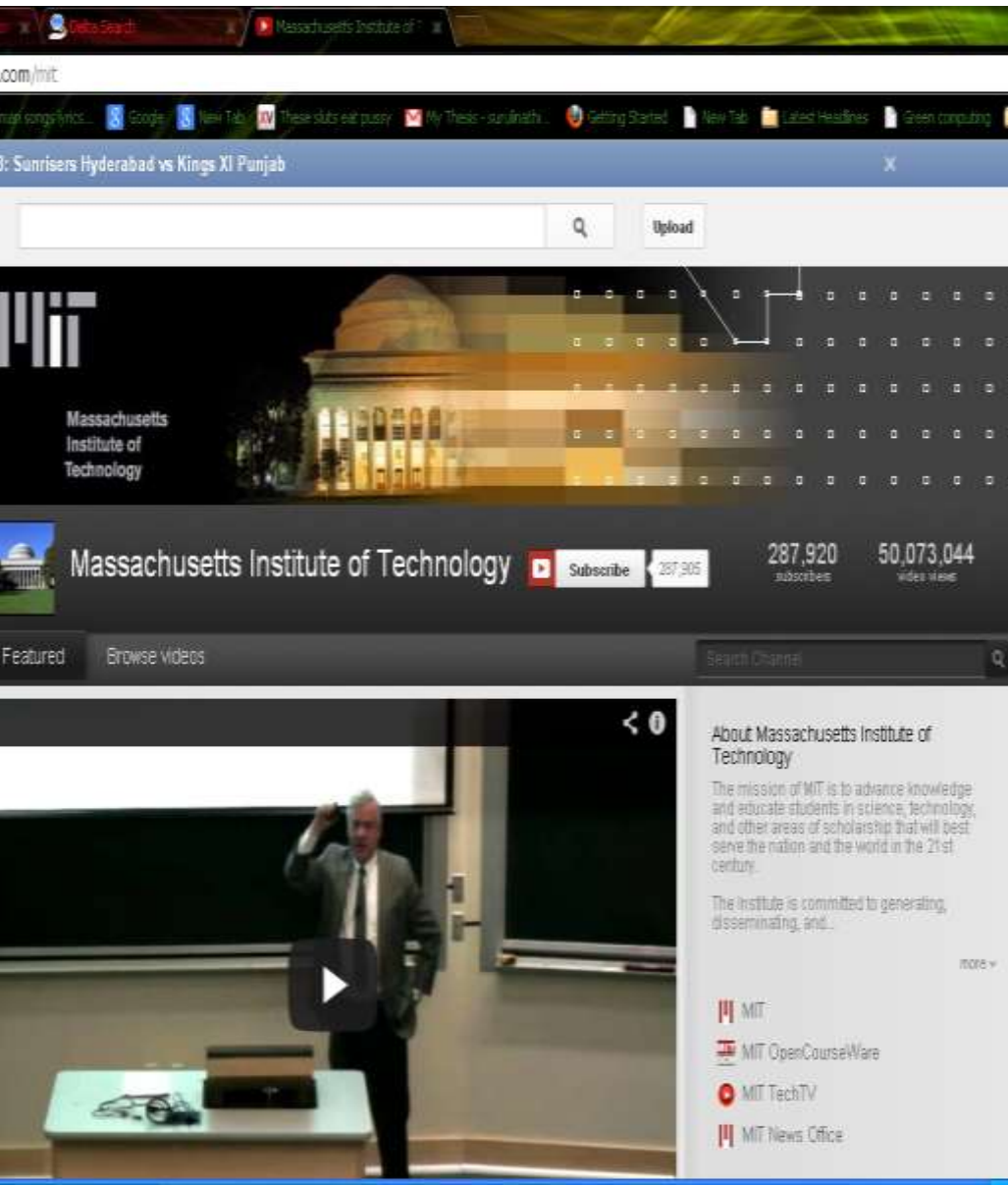
Group Information

Message History

# Skype for Chat



# YOU TUBE



The mission of MIT is to advance knowledge and educate students in science, technology, and other areas of scholarship that will best serve the nation.

YouTube is a video-sharing website on which users can upload, share, and view videos.

# AMAZON

The screenshot shows the Amazon.com website in a Microsoft Internet Explorer browser window. The address bar displays the URL: [http://www.amazon.com/s/ref=nb\\_sb\\_noss?url=search-alias%3Dstripbooks&field-keywords=digital+library](http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Dstripbooks&field-keywords=digital+library). The search results are for the query "digital library".

**Search Results:**

- 1. How to Build a Digital Library, Second Edition (The Morgan Kaufmann Series in Multimedia Information and Systems)** by Ian H. Witten, David Bainbridge, and David M. Nichols (Paperback - Oct 21, 2009).  
Buy new: ~~\$79.95~~ **\$72.09**  
20 new from \$65.89 9 used from \$63.96  
Get it by **Friday, Oct 8** if you order in the next **10 hours** and choose one-day shipping.  
Eligible for **FREE** Super Saver Shipping.  
Excerpt - Front Matter: "... How to Build a Digital Library ..."  
Surprise me! See a random page in this book.
- 2. Understanding Digital Libraries, Second Edition (The Morgan Kaufmann Series in Multimedia Information and Systems)** by Michael Lesk (Paperback - Dec 16, 2004).  
Buy new: ~~\$69.95~~ **\$49.04**  
14 new from \$41.57 16 used from \$38.00  
Get it by **Friday, Oct 8** if you order in the next **10 hours** and choose one-day shipping.  
Eligible for **FREE** Super Saver Shipping.  
★★★★☆ (2)

The left sidebar shows navigation options like "New Releases", "Department", and "Books". The "Books" department is expanded, showing categories like "Nonfiction (3,127)", "Computers & Internet (1,962)", "Literature & Fiction (10,241)", "Professional & Technical (4,471)", "Science (8,693)", "Teens (316)", "Religion & Spirituality (741)", "Reference (963)", "Business & Investing (1,488)", "Law (181)", "Medicine (340)", and "Entertainment (2,735)".

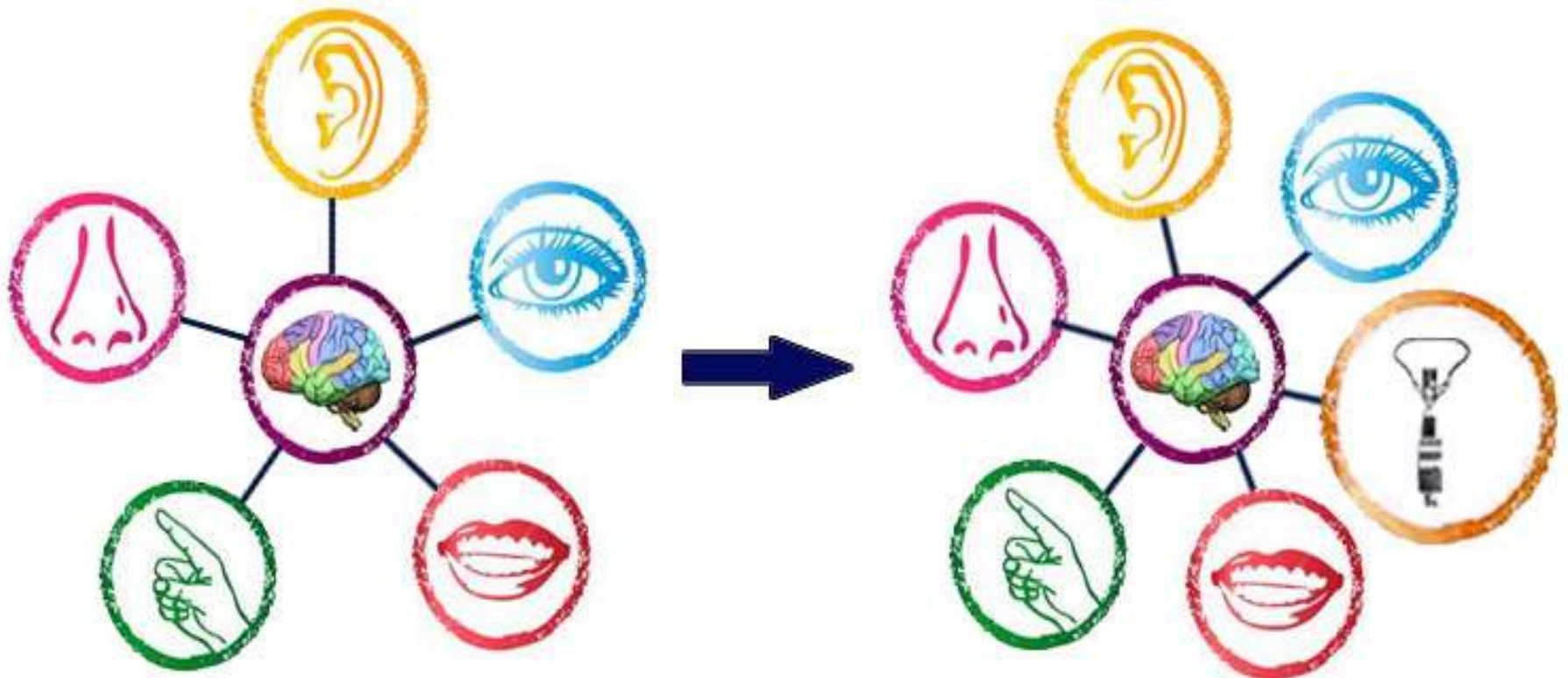
- Online shopping for millions of new & used books on thousands of topics at everyday low prices.

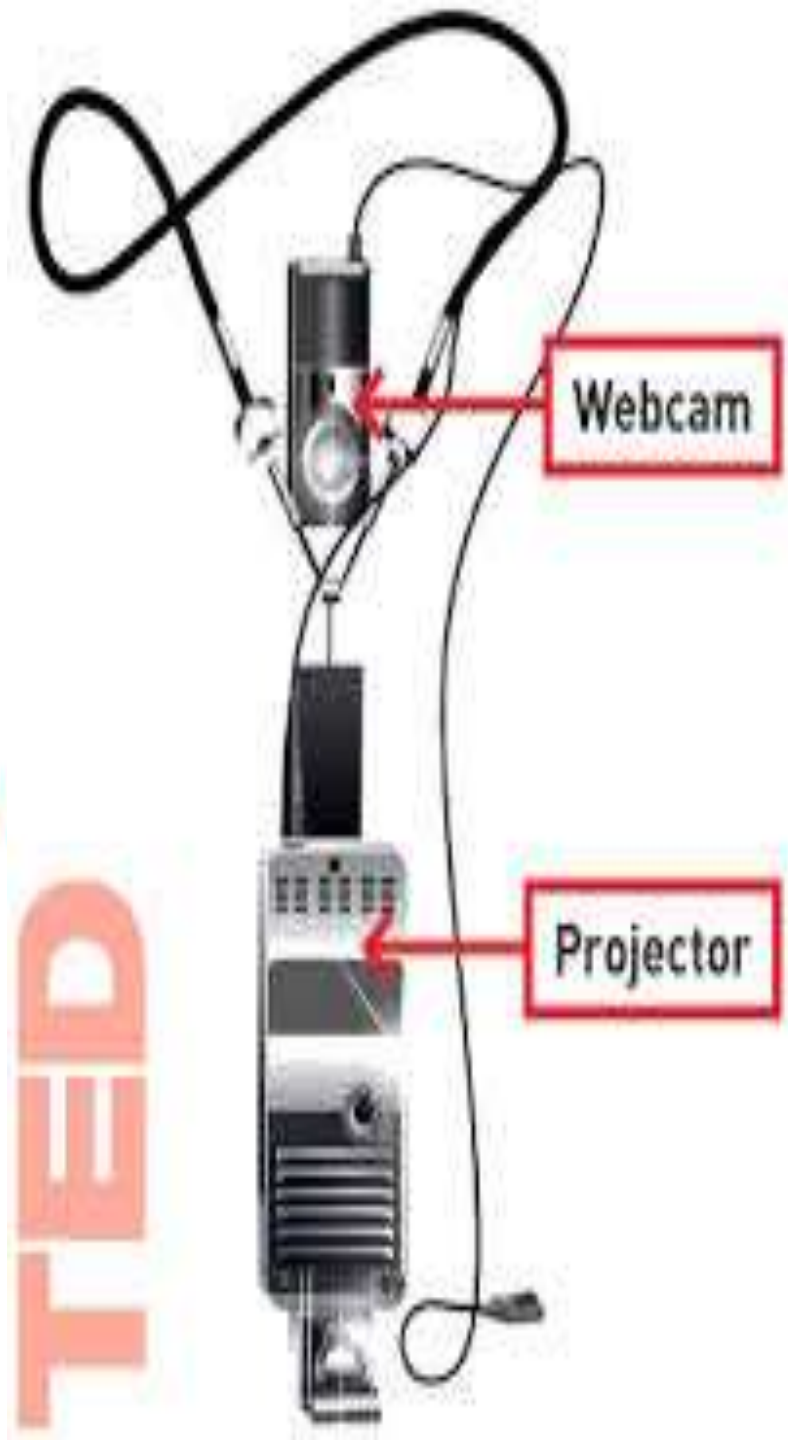
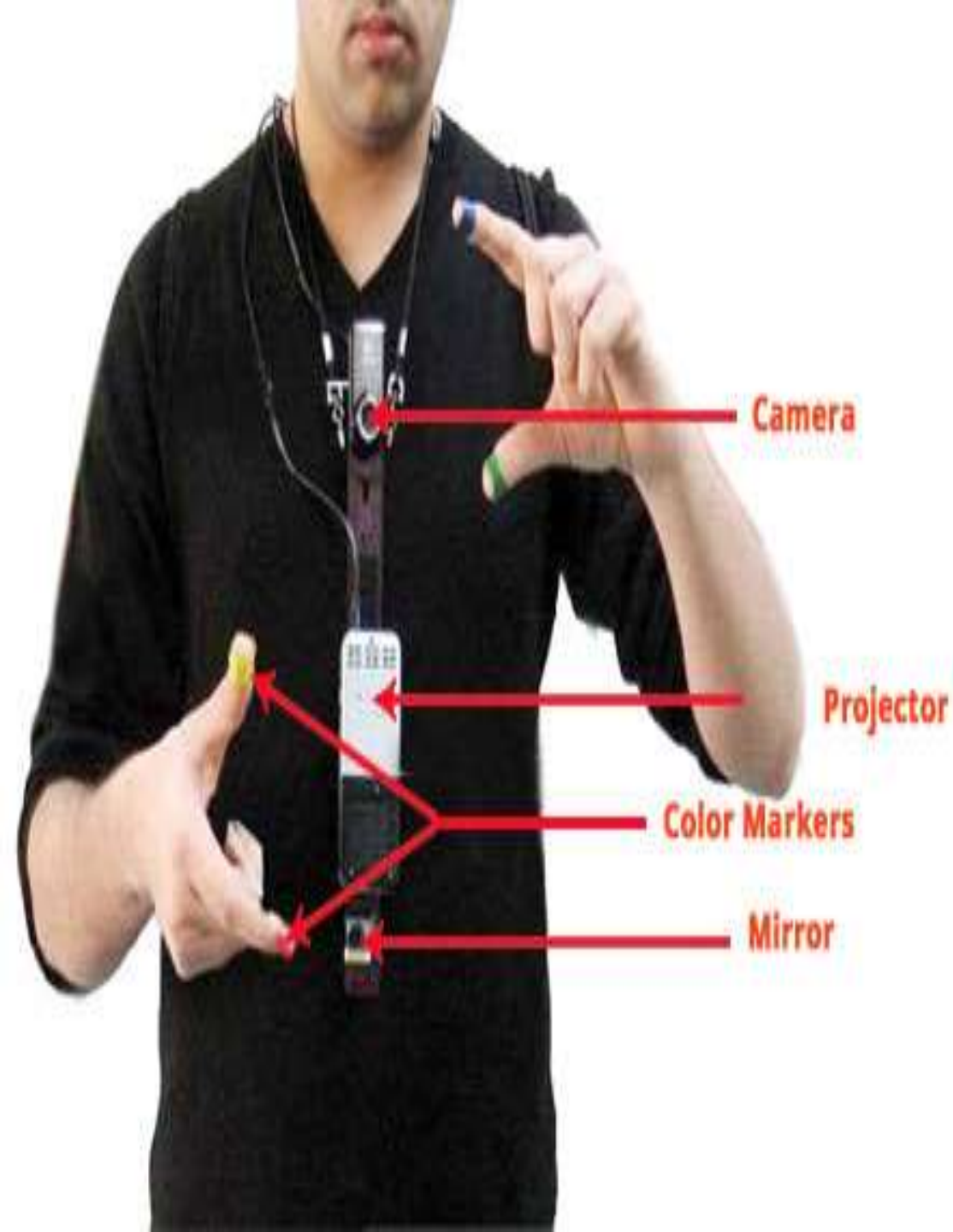
# Digital Watch for Communication

- Digital watch pairs with a phone via **BlueTooth**, after which it acts as a second screen for the phone.
- It can take **calls, send and receive text messages**, and display apps.
- It will be connected to your smart phone and you will have the ability to tap into your phone and access various functionalities such as Whatsapp, Telegram and Hike Messenger etc

# Sixth Sense Technology

- Over the centuries, human understand the world around them through their five sensing methods – seeing, hearing, smelling, Touching **and** tasting.
- Sixth sense technology takes the digital information from the **intangible world to the tangible world**.

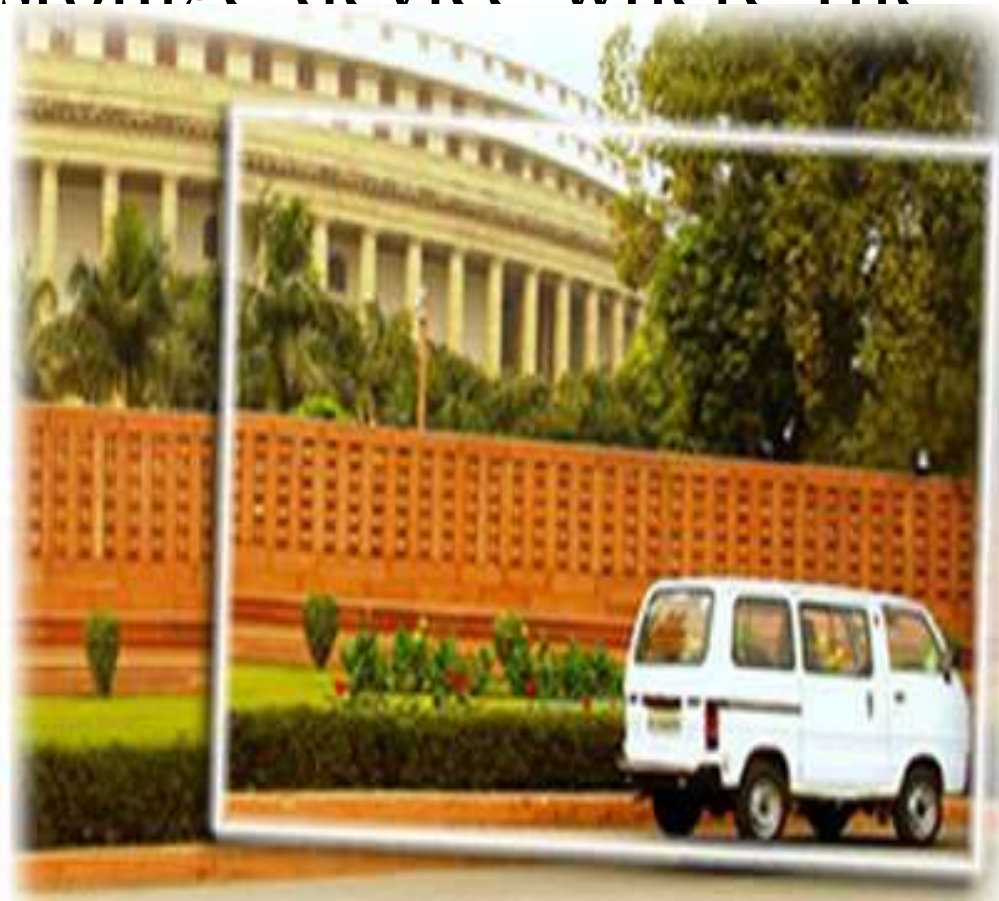






# Motion Capture

The photos can be taken to any interface for editing, managing the galleries and Sharing. There is an inbuilt storage device where the



# Application

## □ Motion Capture



# Phone Call

We can call to our friend by typing the numbers on our hand. It displays the keypad of the phone and the keys appear on the fore finger. Use our other hand's finger to press



# Check the Brand of the Product

It helps us to choose the best brand product from the super market.



# Know the status of ticket...

- *Another amazing feature is the device's ability to look at an **airplane ticket** and let the user know whether the flight is delayed or on time.*



# Newspapers

It Searches the most appropriate video from the web by seeing the headlines of the News Report.

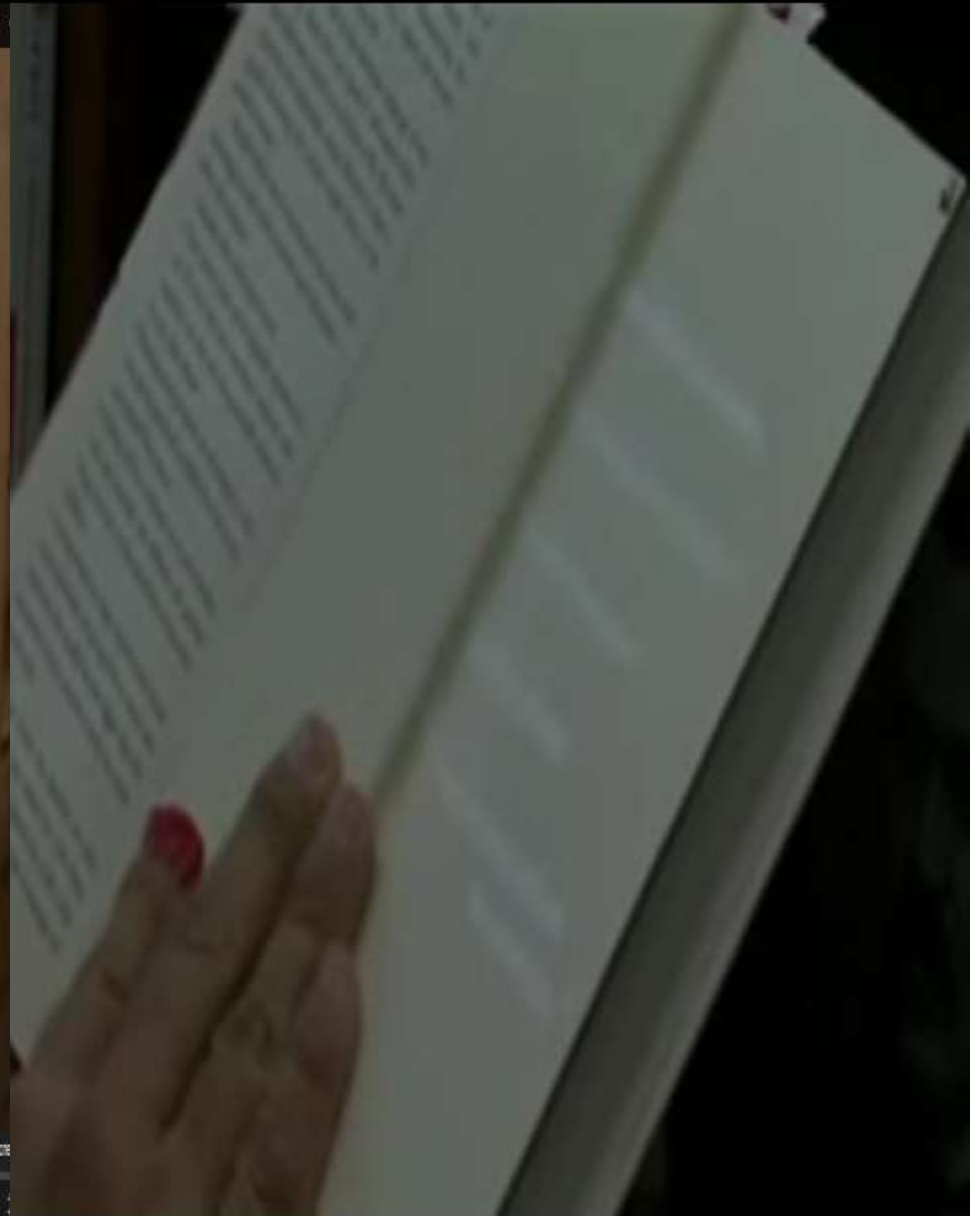


# Drawing Applications



# Match other Books

SIXTH-SENSE: Pranav Mishra at TEDxINDIA





# Summary / Conclusion

- Wearable technology is the aim of **connecting the digital world** with the physical world seamlessly, eliminating hardware devices.
- This combination of devices and **software together create a reality** in which the digital world is **merged with the physical world**.
- This technology can be used in a **plethora of positive ways**, especially by **enhancing daily tasks**.