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Designing for Children Papers 2010

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Introduction

The international conference with the focus on 'Designing for Children' was being held at Mumbai, India, in Feb 2010 and was being hosted by the Industrial Design Centre (IDC), at the Indian Institute of Technology Bombay (IITB), Mumbai.

This international event was aimed at deliberations and discussions concerning design issues related to children. The event was expected to throw light on the role of designing for children as related to the design of objects, media, and the environment with a focus on 'play and learn'.

The events were centered around the interests of students, educationists, practicing designers, and children related interest groups. The event had been designed to be lively, interactive, and thought-provoking and provided an excellent opportunity to interact with thought leaders and listen to visions by researchers.

The Major Events:

- Design Education Meet
- International Design Conference
- Exhibition of Projects on 'Design for Children'

Here, you can find the selected final juried papers for the conference 'Designing for Children 2010' with the focus on 'play and learn'.

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International Speakers

The list of papers was selected for presentation during the conference.

Child Development and Creativity:

1. **Adele Bass**, Art Center College of Design, Pasadena, California, USA
SoulCollage® for Children: Process art as a pathway to creativity

Download Paper:

- [a_bass_designing_for_children.pdf.....](#) 

Special Needs and Children:

2. **Adriana**, Trentin, Universidade do Vale do Itajaí, Brazil
Tinqüe- Electronic equipment for education relief Subtitle: A new proposal to alphabetization

Download Paper:

- [adriana_trentin_designing_for_children.pdf.....](#) 

Human Centered Design:

3. **Alma Leora Culén**, University of Oslo, Group for Design of Information Systems, Oslo, Norway
Design for the Youngest

Download Paper:

- [alma_leora_culen_designing_for_children.pdf.....](#) 

Toy Design:

4. **Amélie Labarthe**, THE SMTHS lab, London, United Kingdom **Matteo Oliverio**, THE SMTHS lab, London, United Kingdom
Educative creativity and playful interactions. How toys and products focussed on children's imagination help in developing free thinking and identity

Download Paper:

- [a_labarthe_m_oliverio_designing_for_children.pdf.....](#) 

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Interactive Multimedia Installation:

5. Anuja Joshi, Art Center College of Design, Pasadena, California, USA
Around the World with Haba: Learning Different Cultures through Music and Movement



Download Paper:

- [anuja_joshi_designing_for_children.pdf.....](#) 

Learning Design Process:

6. Bryan Howell, Brigham Young University, Provo, Utah, USA
You Design It: A Self Directed Design Workshop for Children

Download Paper:

- [b_howell_designing_for_children.pdf.....](#) 
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Interaction Design:

7. Bruno Oro de Abreu, Univali, Balneário Camboriú, Brazil
Dilus – Electronic product of aid at the social interaction, entertainment and continuity of school activities at a distance

Download Paper:

- [bruno_abreu_designing_for_children.pdf.....](#) 

Child Development:

8. Corey China and Denise Rocca, Engine Room, University of the Arts London, United Kingdom
Creativity Matters: Embedding Creative Practices in Early Years Education

Download Paper:

- [c_china_d_rocca_designing_for_children.pdf.....](#) 

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Visual Thinking:

9. D. Mc Cannon, North Wales School of Art at Glyndwr University, UK

Character based Learning through Allegories of Information

An Investigation into the Use of Drawing as a Collaborative and Investigative tool for Exploring Concepts and Knowledge in Primary School Age Children - A Case Study

Download Paper:

• [desdemona_mccannon_designing_for_children.pdf.....](#) 

Interactive Media:

10. Dima Jurf and Patrick Allen, School of Computing, Informatics and Media, Bradford University, UK

Encourage Children in Jordan to read printed books by using digital media

Download Paper:

• [dima_jurf_designing_for_children.pdf.....](#) 

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Play and Learn:

11. F. K. Wood, F. S. Bruce and S Baxter, Centre for the Study of Natural Design, University of Dundee, UK

An Analysis of Children's Outdoor Activities and their Relationship to Play and Learning for Sustainability

Download Paper:

• [fiona_wood_designing_for_children.pdf.....](#) 

Product Design:

12. G. M. Mejía, Universidad de Caldas, Colombia, F. C. Londoño, Universidad de Caldas, Colombia

Design Issues in Serious Games for Children's Learning

Download Paper:

• [Gm_mejia_fc_londono_designing_for_children.pdf.....](#) 

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Aesthetic Experience:

13. Hanayanti Hafit, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia and Fariza Hanis Abdul Razak, Universiti Teknologi Mara, Selangor, Malaysia

Drawing with Fun: What We Can Learn From the Children

Download Paper:

- [h_hafit_designing_for_children.pdf.....](#) 
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Environmental Design:

14. Jenny Liang, Art Center College of Design, Pasadena, United States
Hungry World A Multi-Modal Science Education System

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- [jenny_liang_designing_for_children.pdf.....](#) 

Design of Built Environment:

15. Jon Daniel Davey and Michael Brazley, School of Architecture, Southern Illinois University Carbondale, Illinois USA

Interventions in Cognitive Education: Kid Architecture

Download Paper:

- [jon_davey_designing_for_children.pdf.....](#) 

Collaborative Art with Children:

16. Kevin Todd, University of the Sunshine Coast, Queensland, Australia
Active art/design: case studies from public art projects with children in Queensland, Australia

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Toys for Rehabilitation:

17. **Khipra Nichols**, Industrial design, Rhode Island School of Design Providence Rhode Island, USA and J.J. Trey Crisco, Department of Orthopedics, Brown Medical School, Professor of Engineering (Research) Brown University, Providence Rhode Island, USA

Designing Toys and Technologies for Rehabilitation

Download Paper:

• [k_nichols_designing_for_children.pdf.....](#) 

Interaction Design:

18. **Kwan Myung Kim**, Sunkyoo Choi and Kun-Pyo Lee, Korea Advanced Institute of Science and Technology, Korea
The affection of cursor frozen time to children's mouse interface

Download Paper:

• [kwan_myung_kim_designing_for_children_cursor_frozen_time.pdf.....](#) 

Environmental Design:

19. **Kwan Myung Kim**, Sohyun Kim, Yoonhee Kim and Youn-kyung Lim Korea Advanced Institute of Science and Technology, Korea; Mathieu Keizer, Delft University of Technology, Delft, Netherland
Ethnography study to improve a children library called 'Miracle library'

Download Paper:

• [kwan_myung_kim_designing_for_children.pdf.....](#) 

Children as Designers:

20. **Laura Chessin**, Faculty, Department of Graphic Design, School of the Arts. Virginia Commonwealth University, Richmond, USA

Children Leading the Way as Designers

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Architecture for Children:

21. **Lucente Roberta** and **Recchia Ida**, University of Calabria, Italy
From past heritage to innovation in architecture for Nursery and Kindergarten in the Italian experience

Download Paper:

• [r_lucente_designing_for_children.pdf.....](#) 

Computers and Children:

22. **Mayank Sharma**, Intel Corporation, Oregon, USA: **Tabita Abraham**, HumanFactors International, Bangalore, India: **Russell Beauregard**, Intel Corporation, Oregon, USA
A Case for Reading and Writing on a Classmate PC

Download Paper:

• [m_sharma_tabita_abraham_designing_for_children.pdf.....](#) 

Child's Environment:

23. **Milagros Zingoni**, School of Architecture and Landscape Architecture, Arizona State University, USA
The Chameleon Playhouse

Download Paper:

• [milagros_zingoni_designing_for_children.pdf.....](#) 

Learning Architecture and Children:

24. **Mohammad Razzaghi**, University of Art, Tehran, Iran and **Azadeh Bayat**, Tehran, Iran
Designing an architecture educational package for children

Download Paper:

• [m_razzaghi_designing_for_children.pdf.....](#) 

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Play Therapy:

25. P. M. Bork, Faculty of Education, Brock University, Canada
Overcoming Selective Mutism: Play Now...Talk Later!

Download Paper:

• [po_bork_designing_for_children.pdf.....](#) 

Toy Design:

26. Paulina Pilar Contreras Correa, Facultad de Diseño, Universidad del Desarrollo and Fundación Trabajo Para un Hermano, Concepción, Chile
Experience Designing toys with social values in the south of chile

Download Paper:

• [p_contreras_designing_for_children.pdf.....](#) 

Inclusive Environment Design:

27. Rachna Khare, National Institute of Design, Ahmedabad, India and Abir Mullick, Georgia Institute of Technology, Atlanta, USA
Universally Beneficial Educational Space Design for Children with Autism; the Research Progression

Download Paper:

• [r_khare_designing_for_children.pdf.....](#) 

Special Needs and Children:

28. Rachel Gottlieb, Independent Designer
Touch + Space: Active Learning for Visually Impaired Children

Download Paper:

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1. Introduction
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Sustainability and Toy Design:

29. Rebecca Reubens, Design for Sustainability, Delft University of Technology, The Netherlands
Sustainability in Toy Design through Bamboo: Approaches to integrating the tenants of sustainability through design

Download Paper:

- [rebecca_reubens_designing_for_children.pdf.....](#) 
- [Watch Video.....](#) 

Toy Design:

30. Rémi Leclerc, Toy Design Lab, School of Design, The Hong Kong Polytechnic University, HK
Hong Kong Toy Design Lab: Shaping the Toys to Come - from the World's Production Hotbed

Download Paper:

- [remi_leclerc_designing_for_children.pdf.....](#) 

Collaboative Innovation:

31. Richard Coker, University of South Australia and Jan Coker, Design Strategist, Upfront3, Australia
Designing a 'Play + Learn' Environment at the Elizabeth Special School, for children with multiple disabilities: a collaboration with design students, community, and government

Download Paper:

- [rj-coker_designing_for_children.pdf.....](#) 

Games and Learning:

32. S. Baxter and F. K. Wood, Centre for the Study of Natural Design, University of Dundee, UK
Resurrecting the Dead: The Case of the 'Sappy Sodgers'

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Interactive Media:

33. Shuli Gilutz and John B. Black, Teachers College, Columbia University, New York, USA
Child and Design Factors interacting in Children's HCI - Helping children focus on the content, not the interface

Download Paper:

- [shuli_gilutz_designing_for_children.pdf.....](#) 
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Child Environment:

34. Susinety Prakoso, Universitas Pelita Harapan, Indonesia
Learning through Landscape - Designing Natural Children Outdoor Play in Jakarta Indonesia

Download Paper:

- [s_prakoso_designing_for_children.pdf.....](#) 

Environmental Design:

35. Tak Ping Tsang, School of Design, Hong Kong Polytechnic University, Hong Kong, China
The Significance of Play in the Context of Urban Consumption

Download Paper:

- [tsang_tak_ping_designing_for_children.pdf.....](#) 

Interactive Environment:

36. Wendy Keay-Bright, Cardiff School of Art and Design, University of Wales Institute Adam Martin, Newport School of Art, Media & Design, University of Wales, Newport, UK
Designing Inclusive & Playful Technologies for Pre-School Children

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Interaction Design:

37. Zoja Bajbutovic, Sogeo Company Amsterdam, The Netherlands
The Virtual Playground Social Networks for Children

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International Speaker's Videos:



Bryan Howell, Brigham Young University, Provo, Utah, USA, You Design It: A Self Directed Design Workshop for Children



Dima Jurf and Patrick Allen, School of Computing, Informatics and Media, Bradford University, UK, Encourage Children in Jordan to read printed books by using digital media



Hanayanti Hafit, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia and Fariza Hanis Abdul Razak, Universiti Teknologi Mara, Selangor, Malaysia, Drawing with Fun: What We Can Learn From the Children



Rebecca Reubens, Design for Sustainability, Delft University of Technology, The Netherlands, Sustainability in Toy Design through Bamboo: Approaches to integrating the tenants of sustainability through design

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Shuli Gilutz and John B. Black, Teachers College, Columbia University, New York, USA, Child and Design Factors interacting in Children's HCI - Helping children focus on the content, not the interface

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National Speakers

The list of papers was selected for presentation during the conference.

Learning and Children:

1. **Aarti Kawlra**, Indian Institute of Technology Madras, India: Deepa Kamath, Graphic Design Consultant, Chennai & Mumbai

At School with Design - Early Explorations in Introducing Design in the Curriculum at The School, Krishnamurti Foundation of India (KFI), Chennai

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- [a_kawlra_designing_for_children.pdf.....](#) 

Toys and Children:

2. **Ajith Kumar G**, Funskool India Limited
Designing Games for Children

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- [ajith_kumar_designing_for_children.pdf.....](#) 
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Children:

3. **Ameena Batada**, Sesame Workshop India, New Delhi, India
Harnessing a Child's Love of Play: Examples from Sesame Workshop India's Community Outreach Initiatives

Download Paper:

- [ameena_batada_designing_for_children.pdf.....](#) 

Play and Learn:

4. **Ananthavalli Ramesh** and **Medha Satish Kumar**, Department of Management Studies, Indian Institute of Technology Madras, India
Natural Play and Learn-A Morphological Analysis

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Environmental Design:

5. Anirudh Natuu and Shetall Natuu, Symbiosis Institute of Design, Pune, India
Design of Play Spaces in the Context of Modern Dwellings

Download Paper:

- [anirudh_natuu_designing_for_children.pdf.....](#) 

Game Play and Storytelling:

6. Anita Vachharajani, Freelance writer, and Amit Vachharajani, Film maker, Mumbai, India
Amazing India – A State-by-State Guide Challenges in designing an informative book for children



Download Paper:

- [a_vachharajani_designing_for_children.pdf.....](#) 

Design Learning:

7. Farhat Ara, Chitra Natarajan and Sugra Chunawala, Homi Bhabha Centre for Science Education (Tata Institute of Fundamental Research), Mumbai, India
Naïve Designers: A Study Describing Indian Middle School Students' Creative Design Solutions to a Real-World Problem

Download Paper:

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Child Development:

8. Gayatri Menon, Toy and Game design program, National Institute of Design, India
The role of toys in early childhood

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Environmental Design:

9. **Gedela Vidya**, Srujanavani Voluntary Association, India, Shaik Basheer, Srujanavani Voluntary Association, India
Children's Environment - Focus on play and learn

Download Paper:

• [g_vidya_designing_for_children.pdf.....](#) 

Reading Room for Children:

10. **Geetha Narayanan**, Kinnari Thakker, Dipti Sonawane, Palash Mukhopadhyay and Gabriel Harp, Srishti School of Art, Design & Technology, Bengaluru, India
Aata Paata Horaata: A Learning Ecosystem

Download Paper:

• [g_narayanan_designing_for_children.pdf.....](#) 

School and Learning:

11. **Indrani De Parker**, Communication Designer, Design Educator, IILM School of Design, Gurgaon, India
Complete Education - Addressing Social Issues using the Visual Language as the Medium

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• [indrani_de_parker_designing_for_children.pdf.....](#) 
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Special Needs:

12. **Jayakumar, M**, M. S. Ramaiah School of Advanced Studies, Bangalore, India
Primacy of human centric design in the development of an educational toy for visually challenged children: A case study

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Learning Play Connected:

13. Jinan. k. b, Kumbham, Kerala, India

The cognitive space of Indigenous children: A natural way of awakening the senses and the cognitive tools

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Involvement and Learning:

14. Kanaka Ananth, DJ Academy of Design, Coimbatore, Tamil Nadu, India and Bindhu Madhu, Bangalore, Karnataka, India

A different perspective towards "Teaching & Learning" - Need to create 'Thinkers' who 'Do'

Download Paper:

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Interactive Design:

15. M. Shivakumar, Agastya International Foundation, Bangalore, India

Hands-on Learning - The Agastya Experiment

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Designing for Special Needs:

16. Manisha Mohan, Tata Interactive Systems, Mumbai, India

Designing Technology for Special Children

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Game Play and Storytelling:

17. Manu Sheel Gupta and Vijit Singh, SEETA organization (Software for Entertainment, Education and Training Activities), New Delhi

Food Force II: Community Learning through Storytelling

Download Paper:

• [vijit_singh_designing_for_children.pdf.....](#) 

e-learning and Children:

18. Manuj Dhariwal and Pradeep Yammiyavar, Indian Institute of Technology Guwahati, India
Developing Mathematical Concepts for E- learning by Engaging Multiple Intelligences: a proposal for a new framework –CRIB

Download Paper:

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Toy Design:

19. Mohsen Jaafarnia and Pradeep Yammiyavar, Indian Institute of Technology Guwahati, India
Toy Designs: Whose Choice Matters - Children's or Parents'

Download Paper:

• [mohsen_jaafarnia_designing_for_children.pdf.....](#) 

Participatory Culture for Social Change:

20. Mydhili Bayyapunedi, Google India Pvt. Ltd., Hyderabad, India
Leveraging the Power of Participatory Culture for Awareness among Street Children

Download Paper:

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Designing for Children:

21. N. Krishnaswamy, Bharatiya Reserve Bank Note Mudran Private Limited, West Bengal, India
Banknote Design and Children

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Robotic Toys and Children:

22. Nikhil Karwall, Design Consultant, Mumbai, India
Visual Programming Application for Children to program Robotic Toys

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Children as Storytellers:

23. Nina Sabnani, Industrial Design Centre, IIT Bombay, India
'Homing' in with Stories

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School and Learning:

24. Peggy Mohan, Vasant Valley School, New Delhi, India
The Process and not the Product: Designing with Children

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Physical Interaction:

25. Pranav Gupta and Ruchika Sarma, National Institute of Design, Ahmedabad, India
An Interactive Floor: For the playful learning experience of children through stories

Download Paper:

• [pranav_gupta_designing_for_children.pdf.....](#) 

Reading Room for Children:

26. Priya Srinivasan, The Pomegranate Workshop, Mumbai, India
Design and Delivery of an Experiential Learning Model for Children

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Holistic Learning:

27. Raj Kumar Konar, Silpa-Sadana, Visva-Bharati, Santiniketan, West Bengal, India
Rabindranath's Open-Air School System At Visva-Bharati And Its All-Time Relevance

Download Paper:

• [raj_kumar_konar_designing_for_children.pdf.....](#) 

Digital Design:

28. Rajeswari Namagiri Gorana and Mamata Pandya, Centre for Environment Education, Ahmedabad, India
Designing an Educational Website for Children

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Storytelling and Communication:

29. Rebecca Glaser, Fulbright-Nehru at Sphoorti Foundation, Secunderabad, India
To Tell A Story: How Can Small Voices Make Themselves Heard?

Download Paper:

- [r_glaser_designing_for_children.pdf.....](#) 

School Learning:

30. Ritesh Khunyakari, Swati Mehrotra, Sugra Chunawala and Chitra Natarajan, Homi Bhabha Centre for Science Education (Tata Institute of Fundamental Research), Mumbai, India
Implementing D&T Education in Indian Middle Schools

Download Paper:

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- [Watch Video.....](#) 

Story Creation Schema:

31. Sachin Datt and Ravi Poovaiah, Industrial Design Centre, Indian Institute of Technology, Bombay
Story Based Schema Building Approach in Science Learning

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Board Games:

32. Sanika Mokashi, Texas Instruments, India
Back to Our Roots: A Board Game Approach to Active Vocabulary

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34. Sonali Soni Pal, Textile Design Department, Pearl Academy of Fashion, New Delhi, India
Learning is not a child's Play

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Designing for 'Multiculturalism': Children's Experience

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Ajith Kumar G, Funkskool India Limited, Designing Games for Children



Farhat Ara, Chitra Natarajan and Sugra Chunawala, Homi Bhabha Centre for Science Education (Tata Institute of Fundamental Research), Mumbai, India, Naïve Designers: A Study Describing Indian Middle School Students' Creative Design Solutions to a Real-World Problem



Indrani De Parker, Communication Designer, Design Educator, IILM School of Design, Gurgaon, India, Complete Education - Addressing Social Issues using the Visual Language as the Medium



M. Shivakumar, Agastya International Foundation, Bangalore, India, Hands-on Learning - The Agastya Experiment

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You Design It: A Self Directed Design Workshop for Children by Bryan Howell



Encourage Children in Jordan to read printed books by Dima Jurf and Patrick Allen



Drawing with Fun: What We Can Learn From the Children by Hanayanti Hafit



Sustainability and Toy Design through Bamboo by Rebecca Reubens

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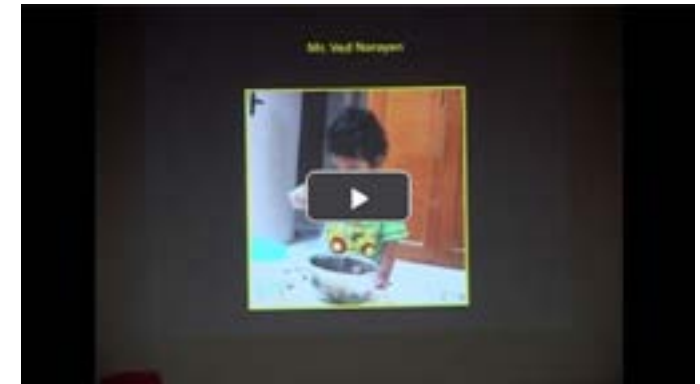
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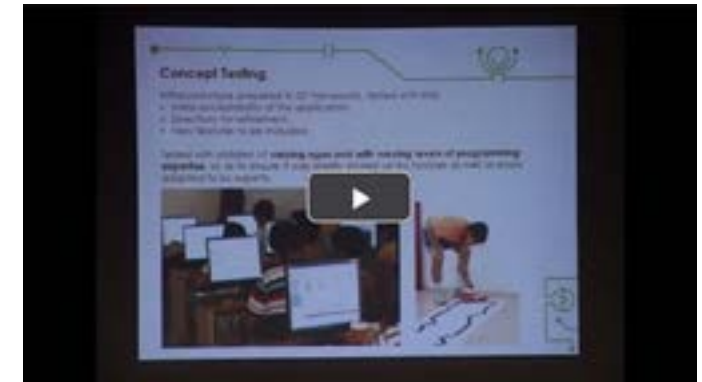
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- https://www.youtube.com/watch?v=bBtk_YW5-6Q&list=PL4OmuVnCLm4g5p2uJVpkq6l9eWywRbP_n

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