

Fun Follows Function Ten Tips for Developing Quality Toys

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sandbox summit

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The Joan Ganz Cooney Center at Sesame Workshop

"We don't pretend that media or a television show can solve the problems of our world, but we do believe it would be a terrible mistake not to use these most influential tools to contribute to the solutions."

- Joan Ganz Cooney

Mission

To catalyze and support research, innovation, and investment in digital media technologies to advance children's learning.



#1: Bridge the gap between industry and academia

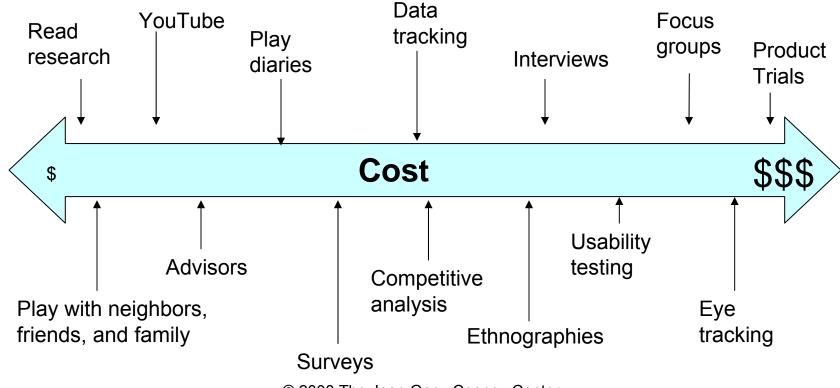
Convene multi-disciplinary teams

Apply knowledge about child development and learning in product design



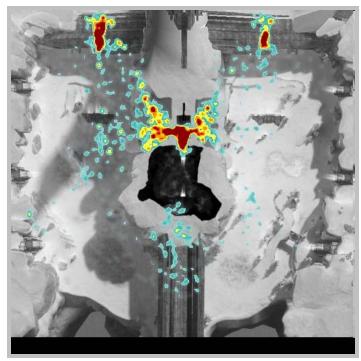
#2: Research and Testing

- ► Everyone can afford something
- ► Integrate throughout the development timeline



#3: Track what users do

- Automated data tracking and in-game metrics can
 - ► Identify where users get stuck
 - Aggregate reaction times to inform level design
 - Supply intelligence for automatic leveling
 - ► Provide usability information



From Bungie.net

#4: Read.

- ► First, know the basics
 - Read information for parents or basic developmental psychology textbooks
- ➤ Then, stand on the shoulders of those who are doing the research relevant to you
 - ► Look in unusual places: overseas, other academic fields



Scholar All articles - Recent articles

Toys as Culture.

B Sutton-Smith - 1986 - eric.ed.gov ED285690 - **Toys** as Culture. ERIC Home. ... perform a new s Title: **Toys** as Culture. Authors: Sutton-Smith, Brian. ... Cited by 107 - Related articles - Cached - Web Search - Libra

Educational toys

JH Lemelson, D Lemelson - US Patent 5,004,442, 1991 - free Title: **Educational toys**. Document Type and Number: United Link to this page: ... 14. An **educational toy** comprising: ... <u>Cited by 12 - Related articles - Web Search - All 3 versions</u>

Educational drawing toy with sound-generating fun

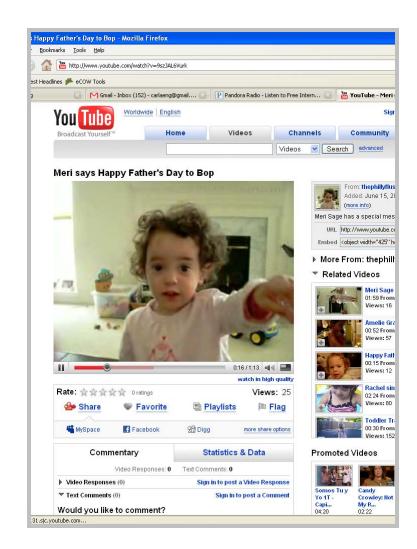
M Todokoro, M Shiraishi... - US Patent 5,501,601, 1996 - free ... Educational toys with a keyboard or a display portion resoled toys being capable of playing a scale or a melocited by 9 - Related articles - Web Search - All 3 versions

Play in Children with Severe Multiple Disabilities: pl

J Brodin - International Journal of Disability, Development and ... As a result of recent research in the disability ® eld, toys f

#5: Become an Observer

- Don't just play with the neighbors, friends, and family
- YouTube and other video sharing sites are a gold mine of valuable usability info
- ► Walk the toy store aisles



#6. Break the model of one child per screen

► Encourage intergenerational interaction

➤ Think outside the 'keyboard' box

Combine the virtual & physical worlds



#7. Leverage consumer market trends for learning

➤ 'Youth' generated content

► Virtual Worlds

Video content on the web

Casual games



#8: Go beyond the "three R's"

- ► Rethink literacy for the 21st century:
 - ► Creativity and Innovation
 - Critical Thinking and Problem Solving
 - ► Communication and Collaboration
 - Global knowledge and skills



#9. Explore new mechanics

- ► Add new twists to old mechanics (or vice versa)
- ► Transfer or evolve mechanics from different platforms
- ► Look to general audience games for new ideas



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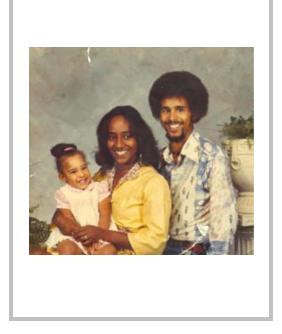
#10: Tap into your own childhood

▶ Do you remember...

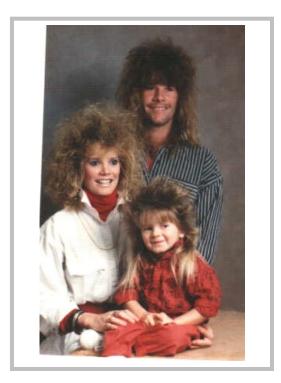
The 60's



The 70's



The 80's



Thank You!



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