Moving Beyond the Debate on Technology and Young Children

Warren Buckleitner Children's Technology Review

Welcome

Agenda

- The debate about technology and young children.
- What kind of child do we want to raise?
- Examples.
- What is a screen?
- Assessing quality
- The NAEYC position statement.

About me:

- One of six kids, grew up and taught in Michigan, live in NJ
- BS Elementary Education, CMU
- MA Human Development, Pacific Oaks
- Ph.D., Educational Psychology, Michigan State University
- Sr. Consultant, High/Scope Foundation
- Preschool and elementary teacher (yes, I made snacks)
- Reviewer: CTR, Scholastic Parent & Child, New York Times.
 I attempt to be objective, but please see: http://childrenstech.com/about/disclosures and make up your own mind.
- Parent of two daughters.
- Member of the "B's" NAEYC Technology Interest Forum.
- One of many who advised on the NAEYC position statement.





http://childrenstech.com/files/2011/05/g3-1.pdf

The debate

"stone themes

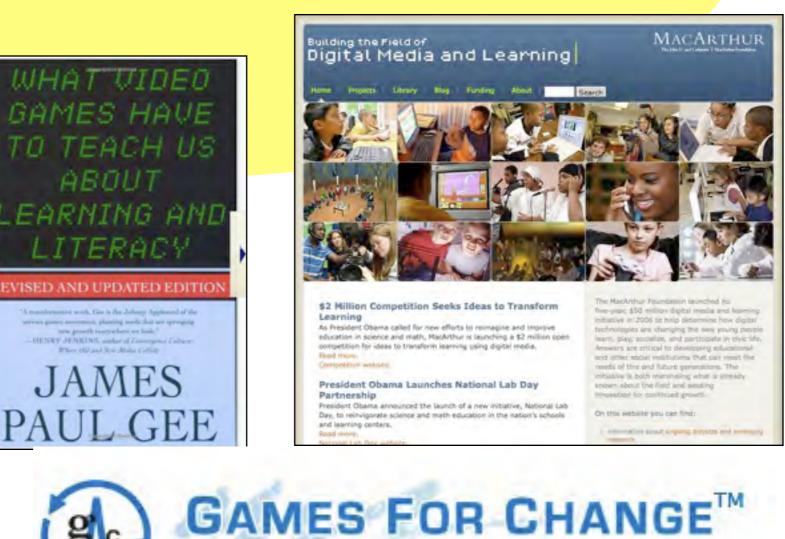
Did you hear about kids and digital media?

... it promotes learning ...

HDD COMPUTER GRMES HELP CHILDREN LERRN



DAVID WILLIAMSON SHAFFER FOREWORD BY JAMES PAUL GEE "This book represents the logical next step in a conversation started by James Paul Gee's What Video Games Have to Teach Us about Learning and Literacy." —HENRY, JENKJNS, MIT



Real world games, real world impact.

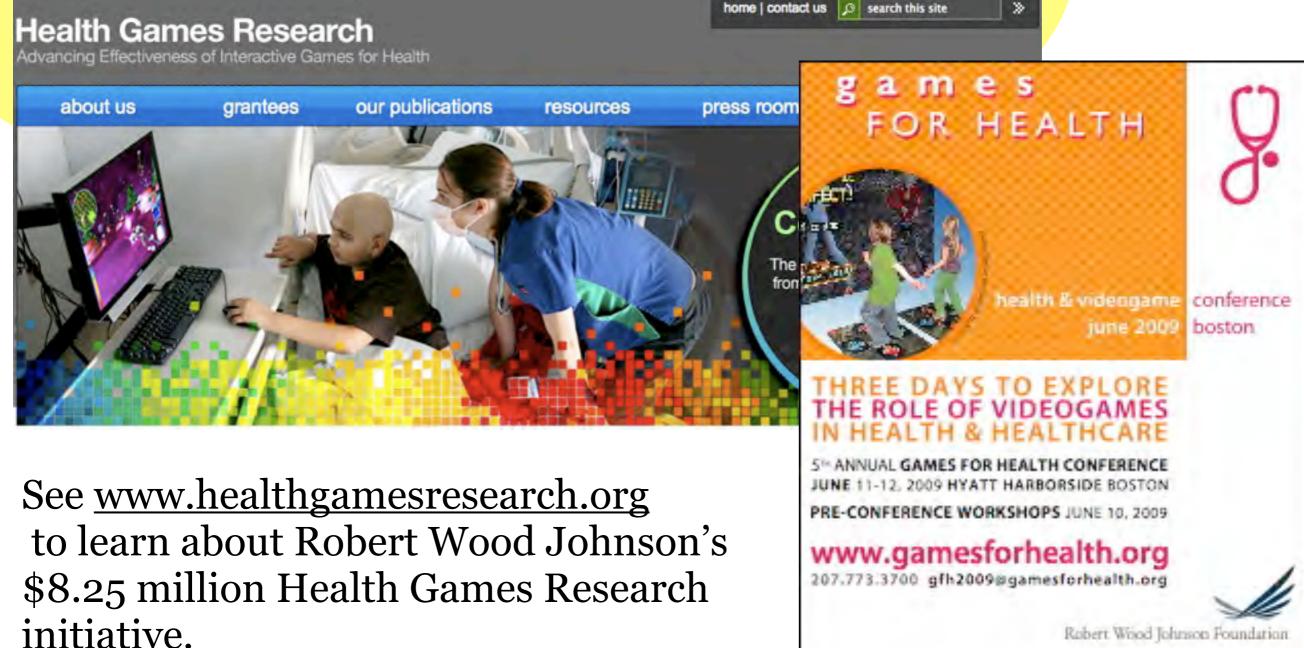
See Henry Jenkins' "transmedia," <u>www.henryjenkins.org</u> or Mark Prensky's "digital natives." (<u>www.markprensky.com</u>)

You've no doubt longed for some of MacArthur Foundation's five-year, \$50 million digital media and learning money? See <u>http://digitallearning.macfound.org</u>

... it makes kids smart! ...



... is healthy ...



Robert Wood Johnson Foundation



A lot of energy and media attention goes to keeping kids "safe." Groups like the Coalition for a Commercial Free Childhood, the Alliance for Childhood remind us that technology use with children should be studied.

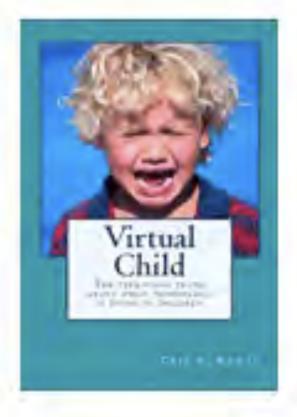
... it causes mental illness...

Virtual Child — The terrifying truth about what

technology is doing to children

Virtual Child is written by a pediatric occupational therapist and child development expert Cris Rowan who is passionate about changing the ways in which children use technology. Virtual Child is designed for parents, teachers, health care professionals, government, researchers and technology production corporations, and contains strategies to manage balance between activities children need to grow and succeed with technology use.





Extensive research review by Rowan indicated that many of children's school performance issues were related to increased use of TV, videogames and internet. As child developmental delays and behavior disorders continued to escalate, Rowan stepped away from the school setting and developed *Zone'in Programs Inc*. home to *Zone'in Products*, *Workshops*, and *Training*.

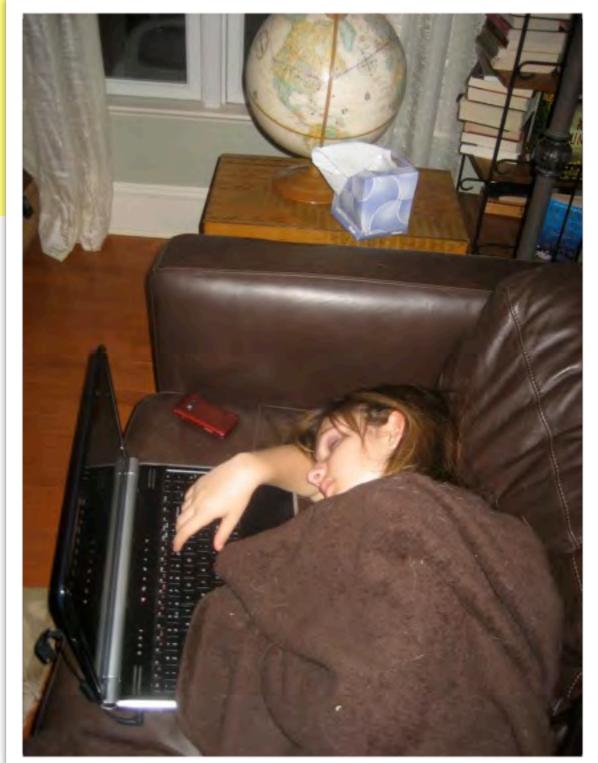


... kids use it a lot.

"Today, 8-18 year-olds devote an average of 7 hours and 38 minutes (7:38) to using entertainment media across a typical day (more than 53 hours a week). And because they spend so much of that time 'media multitasking' (using more than one medium at a time)

they actually manage to pack a total of 10 hours and 45 minutes (10:45) worth of media content into those 7¹/₂ hours.

I read all these studies and think, what does it all mean. And then I ask a kid "does technology make your life better" and they say...



http://www.kff.org/entmedia/mh012010pkg.cfm



What kind of child do we want to raise?





Technology behaviors

Less desirable	More desirable

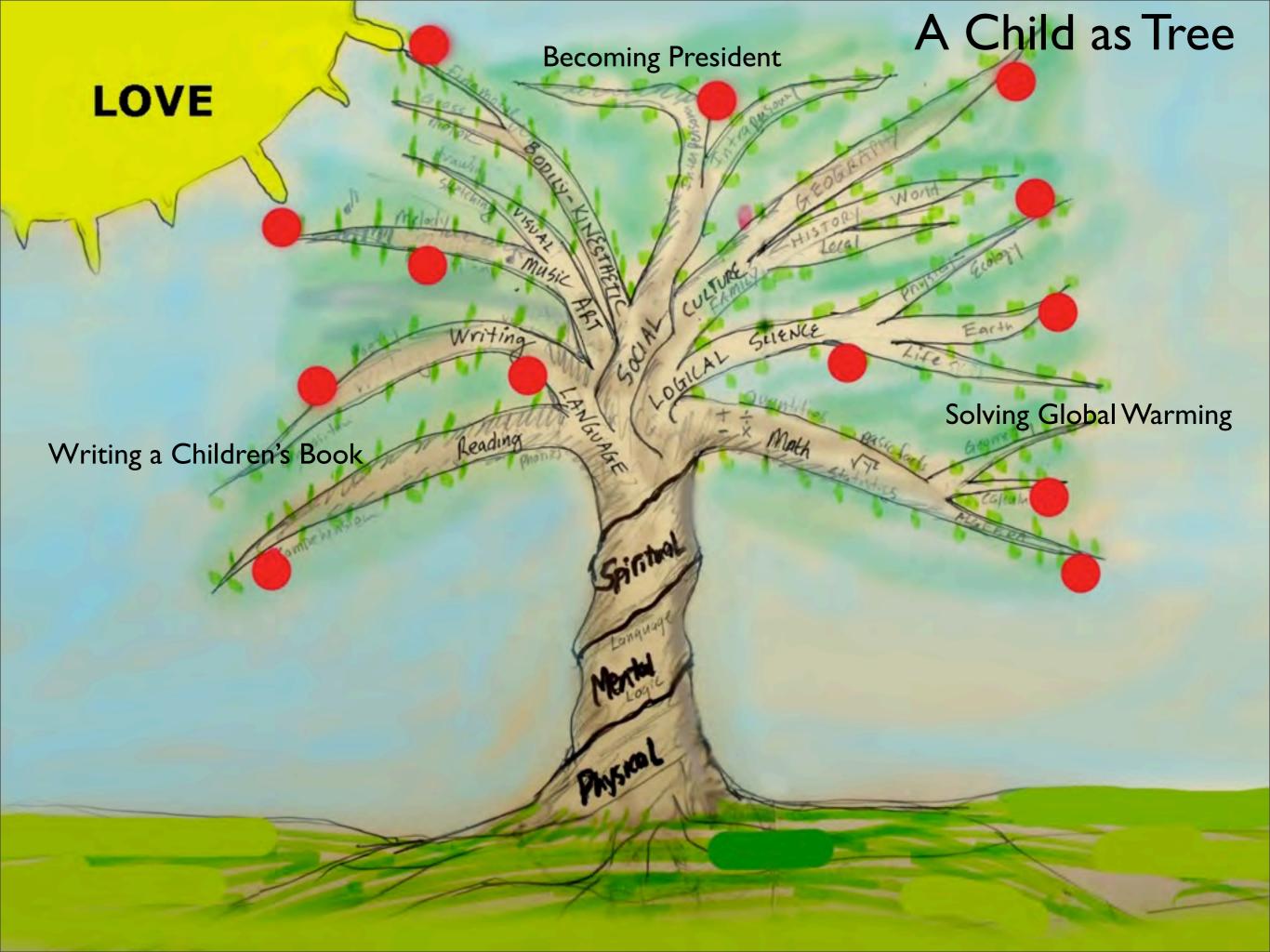
Technology behaviors

Less desirable	More desirable
 Unhealthy (defined by you) use of video games, inappropriate content. Puts tech ahead of people. Fearful. Unaware of the power. 	 Confident. Controls rather than controlled by the technology. Understands ads, google ads, Facebook sponsors and online profiles. Can handle a debit card.

WASHINGTON — A married congressman from upstate New York resigned suddenly Wednesday after a scandal erupted over emails and a shirtless photo supposedly sent to a woman in response to a Craigslist dating ad.







Technology is like Fertilizer.... ccess to quality, developmentally appropriate technology at each stage can increase a child's chances of bearing fruit. But too much can burn the plant.

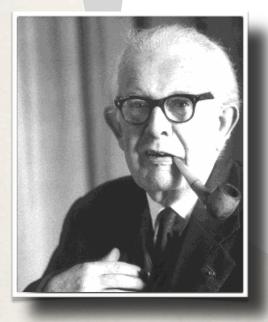




View it from a theoretical framework: How would each see technology?

Lev Semenovich Vygotsky (1896-1934) Abraham **Maslow** (1908-1970)

Jean Piaget (1896-1980)





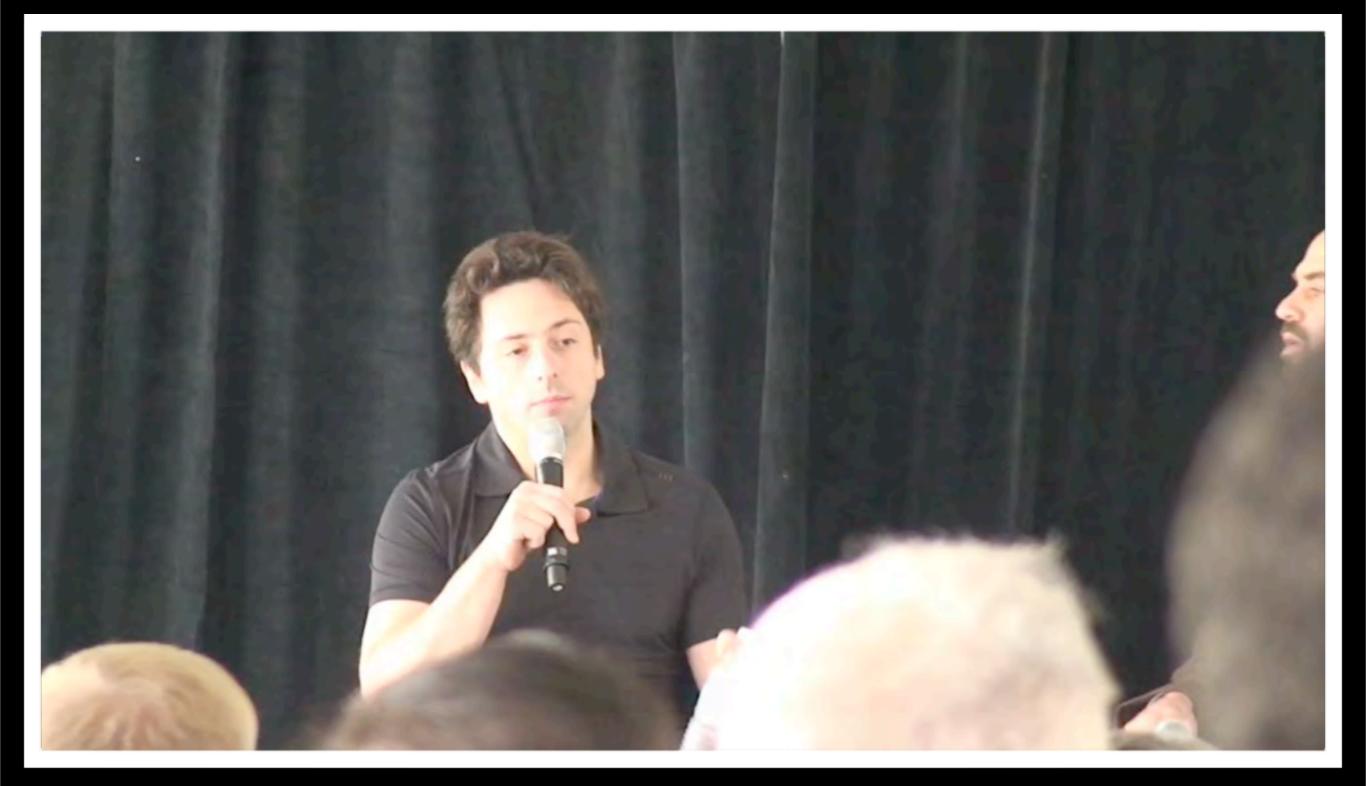




BF Skinner (1904-1990)



Sergey Brin, Google Co-Founder, Talks About his Montessori Education, and His First Computer



Technology examples

Prenatal: Text4Baby.org





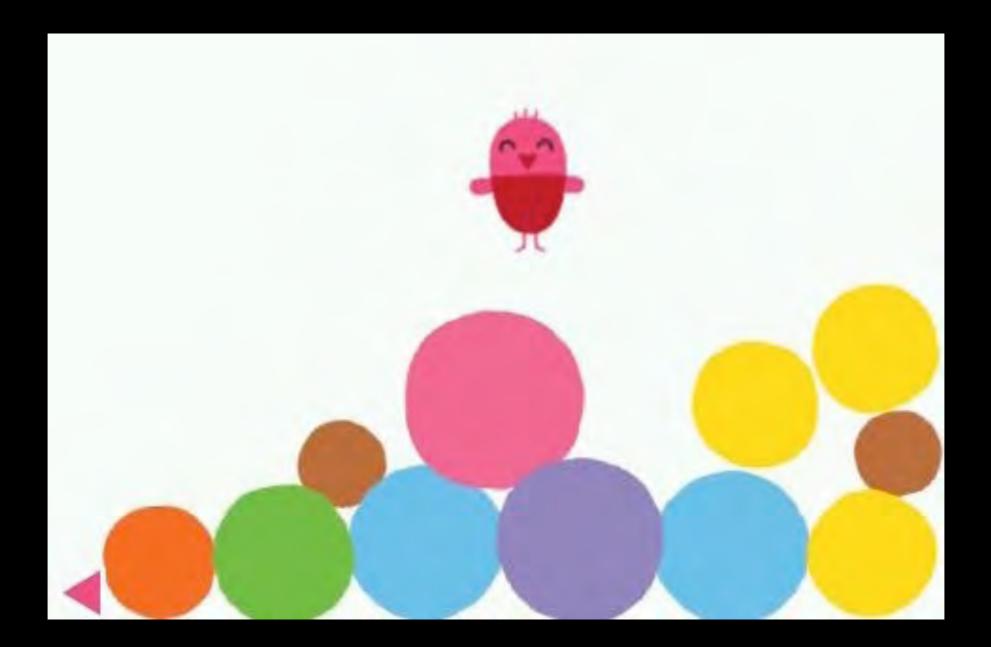
Babies & Toddlers Birth to 2

Rattles, toys & apps like doorbells, piano keys and light switches, high in cause/effect that are "food for the senses."

Symbolic representations less effective at this stage, especially if non-interactive or are low in child control.

A mellow cat.

Sound Shaker Builds music, melody, rhythm, causality. zinc Roe Design. www.zincroe.com \$2. Ages 2-4.



Preschool 3-to 5-Years

Tools for creative expression.

Offer a choice of easy-to-use, well designed apps and video games, on various platforms like the iPad, Nintendo DS, Leapster, MobiGo or iPod Touch. Let them develop a sense of "I know how to make this work" through play.

Digital cameras

Keyboards

Bedtime stories.

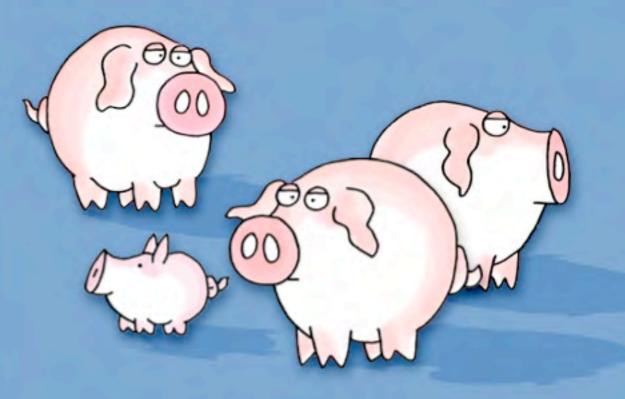
Toontastic, \$3, Launchpad Toys (iPad) being used by a preschooler



Moo Baa La La La! Builds language. Loud Crow Interactive. \$3. Ages 2-5.

"No, no!" you say, "that isn't right.

The pigs say OINK



all day and night."

SpinArt

Turn your iPhone screen into beautiful paint-splattered mess with this simple, fun program. Turn your iPhone screen into beautiful paint-splattered mess with this simple, fun program. While there is no iPad version, it still works fine on on either sized screen. Builds art, creativity, logic (spatial relations). Brian Smith. www.7twenty7.net \$1.99. Ages 3-up.

Early Elementary 5 to 9 Years

Search engines with filtering. Social games like Pokémon. A Wii, PS3 or Kinect, for social play. A steady supply of fresh apps. Technology to support emerging passions.

when Aicked repeat 10 turn (pick random 1 to 10 degrees play sound recording1 say Hello! My Name is Scratch! for 12 secs change size by 10 if on edge, bounce play sound meow T

Upper Elementary 8 to 12 years

Programming experiences, like Scratch.

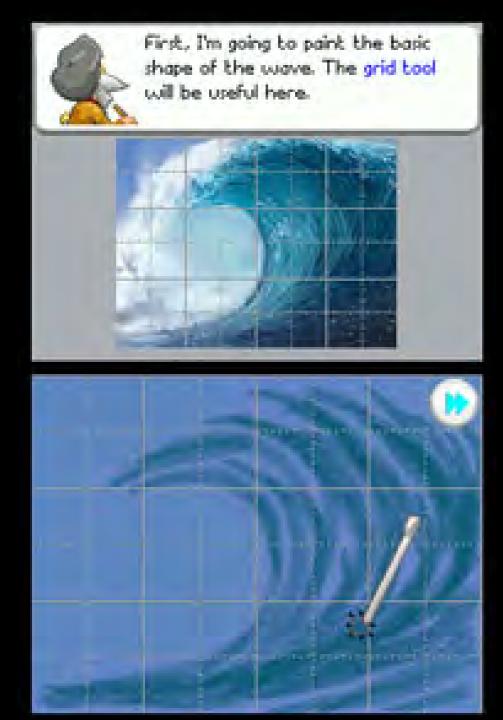
Cameras & video editing

Free, supervised access to a reliable laptop with a working browser, exposure to both Mac and Windows.

High doses of love and supervision.

Art Academy

Transforms your Nintendo DS into a sketch pad, complete paints and pencils. Step-by-step tutorials which introduce ideas like sketching, shading and perspective. If using on a Nintendo DSi you can use the built-in cameras to take pictures of the things you want to sketch. Builds drawing, painting. Nintendo of America. www.nintendo.com \$20. Ages 8-up.





Teens Ages I3-up

A smart phone w/video camera and if possible, a data plan.

Their own laptop.

Facebook/Twitter/email/Google

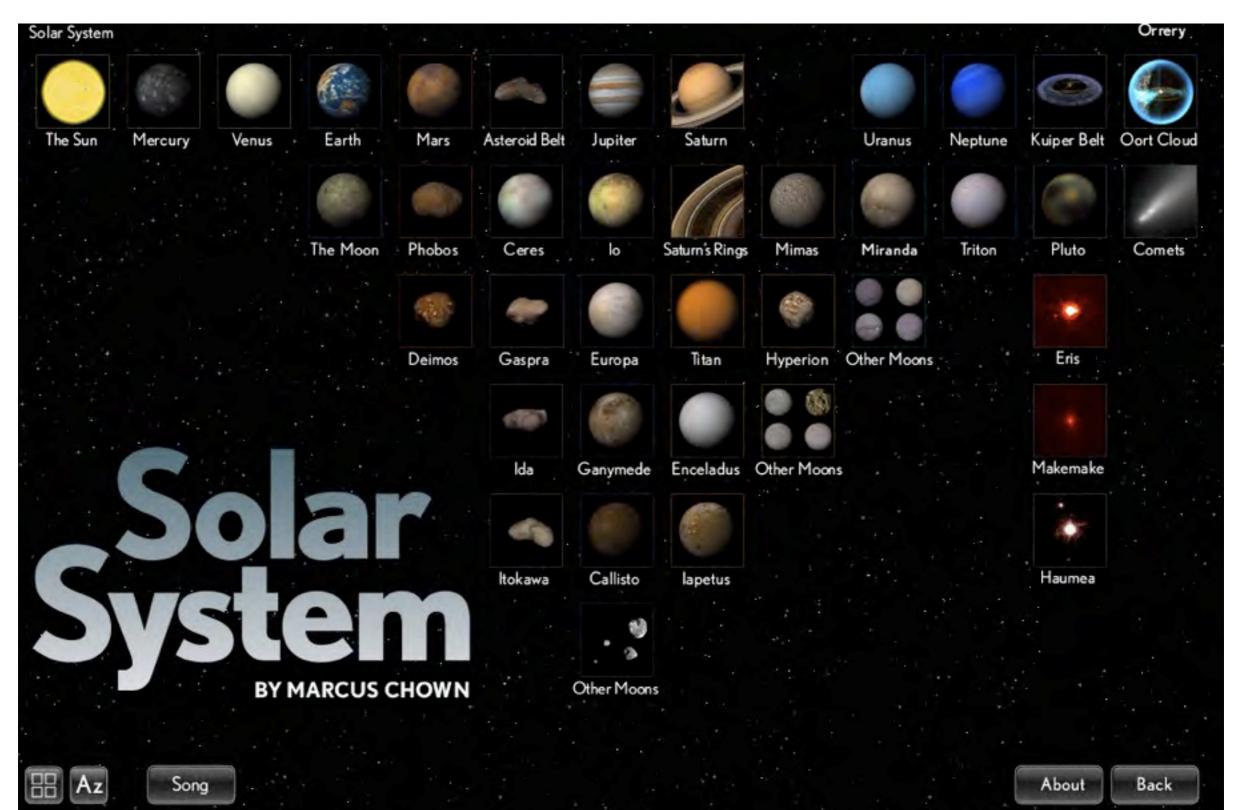
Video and photo editing, word processing.

Open all channels of communication, from smoke signals to SMS to Skype.

Access to emerging products.

Solar System Builds science, astronomy, the solar system, planets. Touch Press.

www.touchpress.com \$14. Ages 7-up.



What is a screen?

Non Interactive vs. Interactive





http://www.huffingtonpost.com/david-kleeman/a-screen-is-a-screen-is-a b 792742.html



Media

David Kleeman President, American Center for Children and BIO **Get Email Alerts** B

ecome	a	Fan	33	Bloggers'	Index

=

Posted: December 8, 2010 08:56 AM

"A Screen Is a Screen Is a Screen" Is a Meme

Enlightening Crazy Scary Helpful Amazing Innovative Inspiring Important

Read More: Children , Content , Games , Internet , Ipad , Iphone , Media , Movies , Screen Time , Screens , Software, Television, Toddlers, Living News



Children's television has been a playground for memes for as long as it's existed (much longer than "meme" has been a word!). Most are light and from pop culture -from Davy Crockett coonskin caps to rumors of gay Teletubbies. Others grow from more dire murmurs about media's effects on children -- sit too close and you'll ruin your vision, short segments decrease attention span, digital kids can't write standard English.

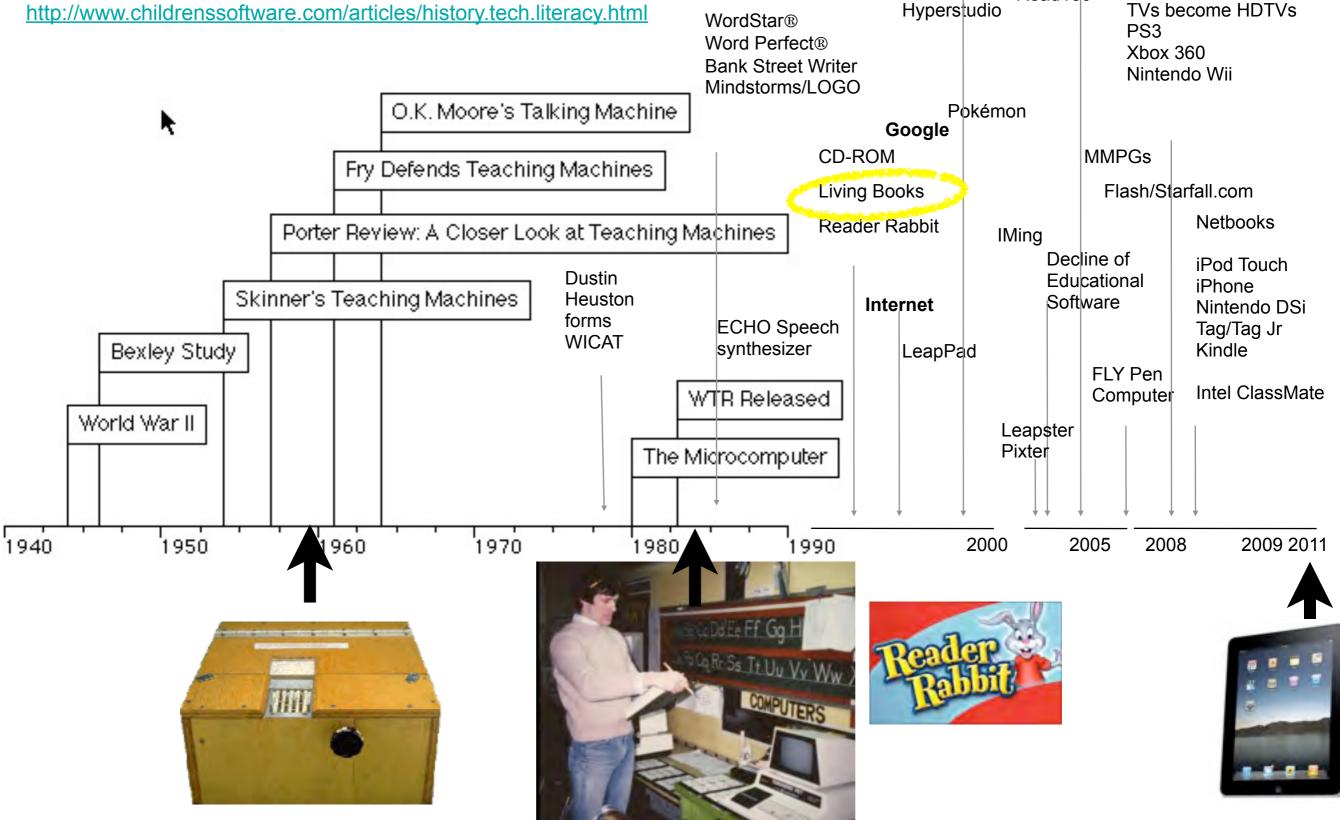
Recently, I've noticed an emerging meme -- "a screen is a screen is a screen." This or similar phrases suggest that only total time matters in children's relationship with media, not what's being viewed or used by whom, nor how and why. As used, it's a facile way to tar all media

and absolve parents or activists from doing the hard work of addressing specific content or context.

"The truth seems self-evident; all screens are not created equal."

The View from Moore's Law An Amazing History! Moore's Law Meets Literacy – Some Key Events

Source: Children's Technology Review database -- see complete references at <u>http://www.childrenssoftware.com/articles/history.tech.literacy.html</u>



Speech to text

Voice Recognition Soliloguy Reader

Accelerated Reader

Microsoft Office

Read180

iPad

iPad Effect

- "Pillars" of the iPad:
- I. Multi-touch
- 2. 10 hour batteries
- 3. Internet
- 4. 13,000 apps (an army of programmers)
- 5. stereo speakers
- 6. gyro and accelerometer
- 7. Oleophobic screen
- 8. \$500 and up

"The iPad is the computer we always wanted." Ann McCormick, Founder, The Learning Company

Kindle (Amazon) Nook Kids (bn.com) Sony Reader Pocket Edition

amagontindle

Past Is Prologue

Everything begins with a story

I sees born in Toronto, one month early and during a blurnard that covered the city in snow and elence. The the date constant the cost in animal and second the that stated any arrival were portents, though they accompanies of annual write Persents, one-personal methods are entered as the time. My mothet, as a recent incompared from India, was in two weaks, and the would pase that multiple identity on to not. My father where there are an another interactly on to see My father

his abante in any in an an in the sign of the deeper more ret to come. Looking back, lare all the ways in

which my life was set the moment I are toon into it. which will and was not the minimum r area been have it. of God of some unnameable force, it was already and every action of more would serve in

The Art of Chor

surpri

840

Moonberry Starberry

Cloudberry sky

Boomberry Zoomberry

A Home

Books by Title

Books by Author

Books by Dale

Collections

13 All Bookmarks

El Settings

8

3

ED Continue Reading

Rockets shoot by

ON

Mariney & Mar (Esca

Beyond the Tablet



the shadows and snatches kids as they **flush** – and the noise hides their **screams**,' a small, worried boy said with a shudder. 'Actually, it's The Toilet

Man,' a year-nine boy said, leaning against the wall. You say his name three times as you look in the 29/387

FLIPS The Bubonic Builders, Electronic Arts



Tag Reading System

InnoPad from V.Tech (coming this fall)





Leapster Explorer (coming this fall)





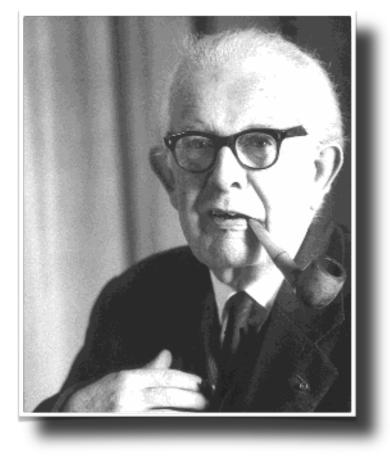
Microsoft Kinect



Nobody will uninvent the iPad



"Taxonomy of Touch"



Age and Stage	Intentional Touch-Related Behaviors	Motion/Voice Behaviors	Examples	
Birth - 24 months	 Mouth Bump/Swat Kick Jab/poke Smear Grasp Swipe, dig or scoop Swipe directionally (up, down, left or right), e.g., to turn pages or change photos. Single tap/ single touch with coin- sized icons 	 Jolt Shake Feel the vibration from the iPad's speaker Rock Blabber Lean (whole body) Sit Throw Single word com- mands 	Look for apps that deliver high cause/effect ratios. These are also called "busy box" apps, "interactive play doh" or rat- ties. These experiences can empower a child, letting them bang on a keyboard <u>http://bit.lv/bMgr2l</u> , pop bub- bles, or make waves in a pond. Show children where the "change app" button is, so they can get out of what they get into.	
Preoperational	 Scribble <u>http://bit.lv/aXqFur</u> or finger paint. Touch and use BB-sized icons Slide objects (with thumb or finger) Flick and throw (skeet ball, a shooting gallery) Trace Cut or slice Alternate hands (e.g., on a piano keyboard) Press and hold (e.g., as a timer fills) Double tap 	 Tilt to steer (like a steering wheel) Align camera viewfinder 	This is the age when a child's motor abilities start to catch up with his or her cognitive abili- ties. They can find and touch smaller icons, do dot-to-dot puzzles and control things by shaking or tilting the screen. They start to employ their emerging temporal and spatial thinking abilities in their iPad Interactions.	
Concrete Opertational	 Spread out (with thumb and index finger, going in different directions) Pinch in (with thumb and index finger) Press soft, press hard Rotate Hit the target Push a magnet (like herding cats) Two or more combination movements, like tilt and shoot. 	 Balance (tilt) like a plate Jump to hop, while throwing a ball (with a tap). 	By the time they are reading, children are ready to fully explore the iPad's multitouch screen, working in concert with the microphone and accelerometers. Prior experience will increase confidence.	
Formal Operational dn - 71	 Isometric rotation (both fingers move the same distance, in the same or opposite direction). Simultaneous rotation, such as with a compass (hold thumb in one space, and rotate other finger). Augmented reality camera based applications such as a virtual plane- tarium <u>http://bit.lv/17w968</u> 	Children can start to use the com- pass, and con- ceptualize the accelerometer.	If your goal is to develop a proficient iPad user, provide plenty of exposure to a variety of apps.	

See also: Yahoo's Nate Koechley's "Taxonomy of Touch" talk on slideshare http://www.slideshare.net/natekoechley/taxonomy-of-touch

http://www.youtube.com/watch?v=TO80404kKvQ

iPad Baby Mashup

Symptoms of lower quality interactive media



E PANA

Death Certificate

✓ Buggy
✓ Laggy
✓ Talks too much
✓ Evil

Draw a line to connect each product to its rating



My Baby Einstein App Disney



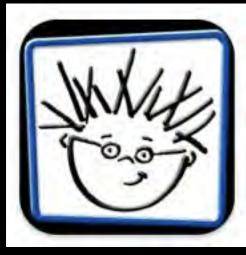
Dinosaur Train Eggspress PBS Kids



Wheels on the Bus Duck Duck Moose

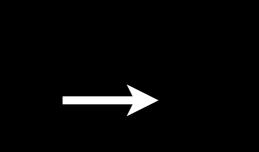


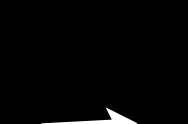
Draw a line to connect each product to its rating



My Baby Einstein App Disney, \$3.99







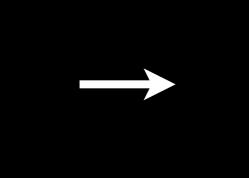


Average rating for	85 Ratings	
****	14	
***	13	
***	10	
**	16	
87	32	

Dinosaur Train Eggspress PBS Kids, \$2.99



Wheels on the Bus Duck Duck Moose, \$99



• Average rating for all	4631 Ratings	
****	2093	
***	777	
***	ō21	
**	409	
4.000	731	

Cust I. Buggy

crashes every time ★ by missre523 - Version 2.0 - Apr 28, 2011

i really wanted this book for my kids, but it crashes on the first page every time, and wont let me see any other pages. 4 dollars wasted. How disappointing.

0 out of 1 customers found this review helpful

Was this review helpful? Yes No.

The lesson for publishers? Don't release your cake before it is baked. Reality test with people other than relatives. Once your app is live, nip errors in the bud.

Report a Contum >





Charley Harper's Peekaboo Forest Night & Day Studios. \$1.99 AKA Unresponsiveness Lesson for publishers? Keep it "crisp." If you put something on the screen that looks interesting, a child is going to want to touch it.



Pets are responsive

Lesson for publishers? Increased feelings of control increases engagement.

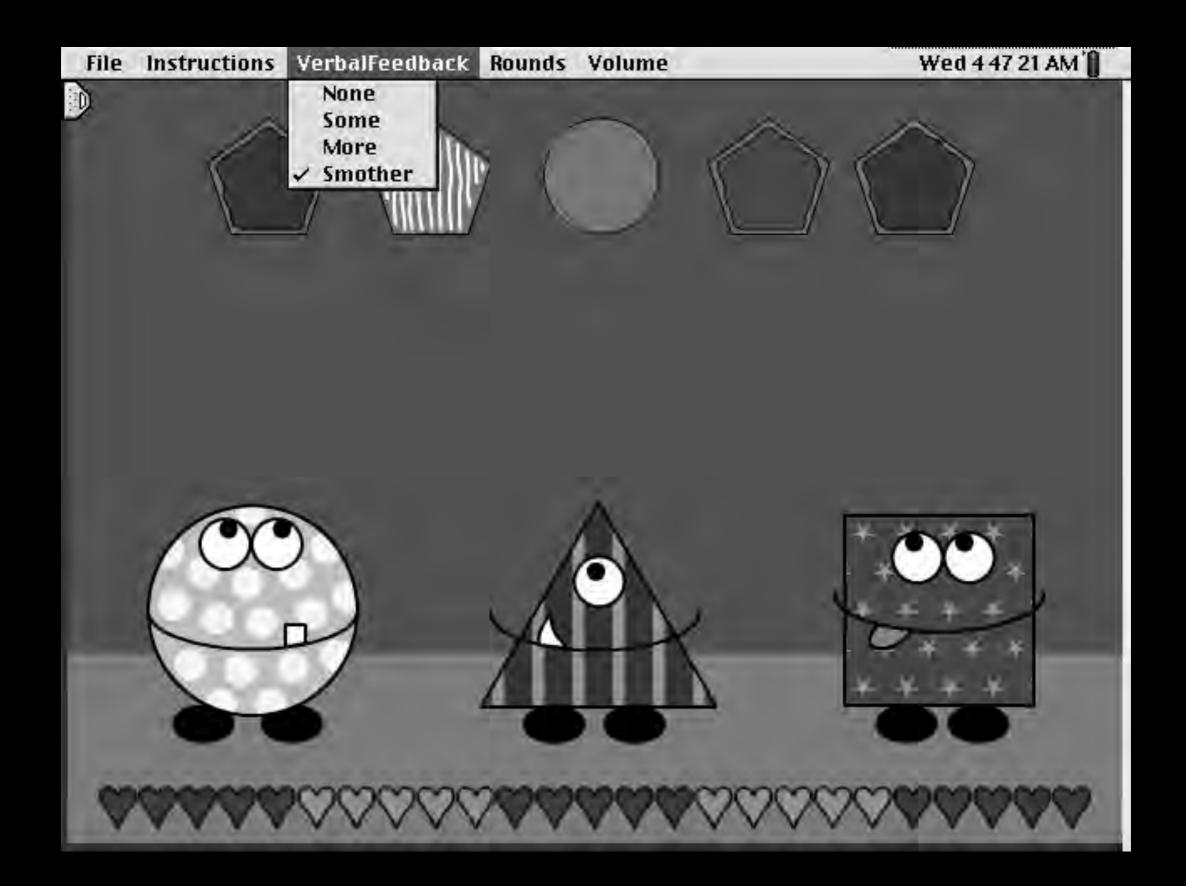


The HOME button has made children "app browsers." A child's best friend, an app developers worst nightmare.

Oust 3. Talks too much



Buckleitner, W. (2006). Exploring the Relationship Between Software Interface Interaction Style and Child Engagement. Early Education & Development, Fall 2006. Search on "buckleitner dissertation"



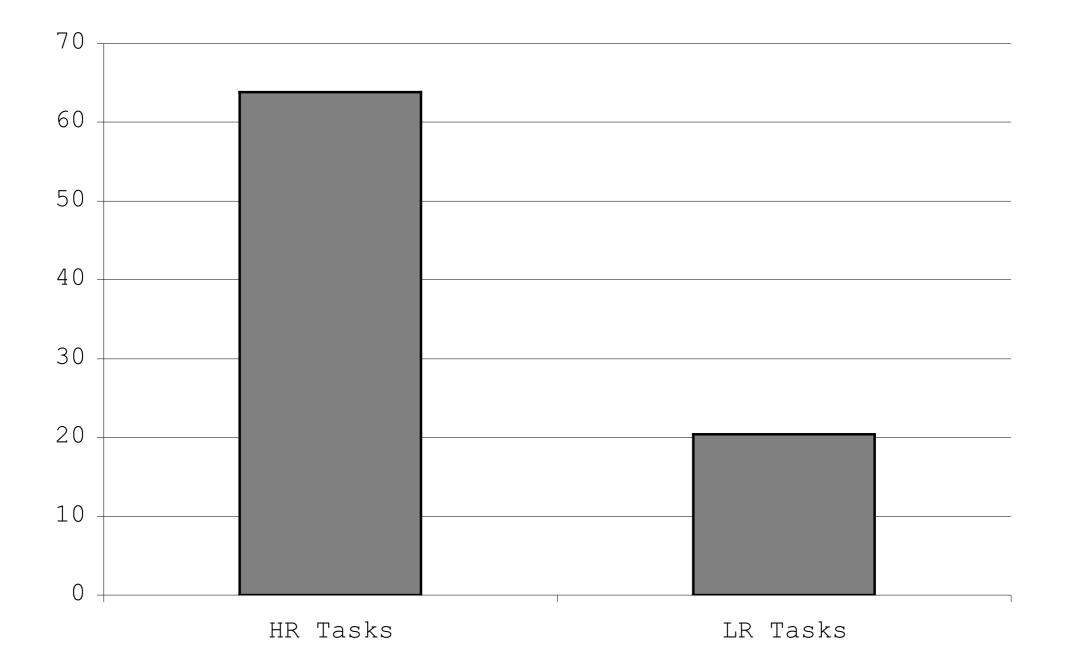
EARLY EDUCATION AND DEVELOPMENT, 17(3), 489-505 Copyright © 2006, Lawrence Erlbaum Associates, Inc.

The Relationship Between Software Design and Children's Engagement

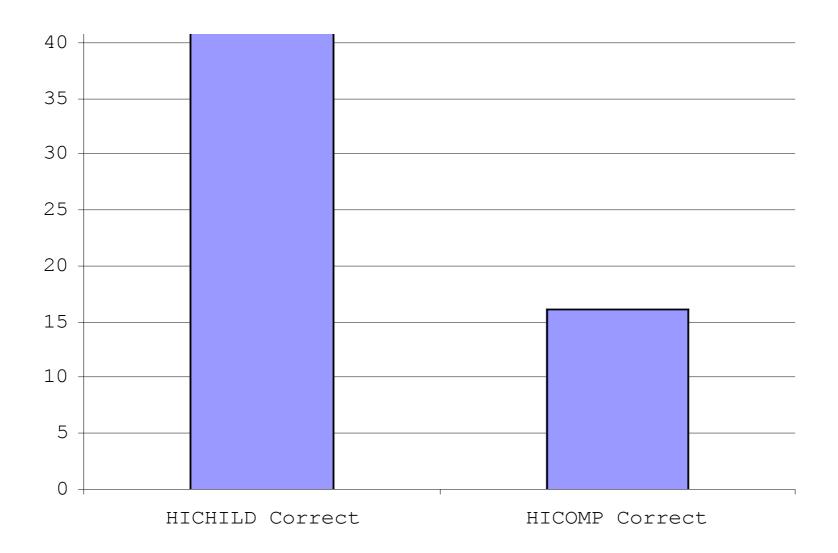
Warren Buckleitner College of Education Michigan State University

This study was an attempt to measure the effects of praise and reinforcement on chil-

Three times more tasks attempted



Twice the correct answers



Dust 4. Evil

"The test of the morality of a society is what it does for its children." Dietrich Bonhoeffer, Theologian



What is "Evil" in children's IM?

- I. Selling faster development, sans valid research.
- 2. Mixing commercial and educational agendas.
- 3. Turning young children into "page view mules."
- 4. Teasing with freemiums or velvet ropes.
- 5. Holding artwork, pets or coins hostage, until parents pay the ransom.
- 6. Taking advantage of a child for pure financial gain.
- Exploiting children to make a funny video for YouTube



2:19 AM

@ 70% 💷



Top Grossing



1. Tap Zoo Games

FREE +

- Zynga Poker Games
- 3. Tap Pet Hotel Games
- 4. Angry Birds Games
- 5. Texas Poker Games
- Words With Friends Games
- MotionX GPS Drive Navigation
- 8. Zombie Farm Games
- 9. Smurfs' Village Games
- 10. Angry Birds Rio Games

"At Pocket Gems, We're Serious About Fun"

Pocket Gems develops free-to-play mobile games that are ridiculously fun. We were founded in 2009 by Daniel Terry and Harlan Crystal, engineers and gaming

industry outsiders, who wanted to bring the excitement of social gaming to the mobile platform.

We have two missions:

- **Build the world's best mobile engineering team** Mobile is the platform of the next decade and gaming will feature some of the most compute- and memory-intensive applications. We want to be the place to work for engineers who are as excited about pushing the limits of mobile hardware as we are. Think that sounds fun? So do we. Check out our jobs page if you'd like to work with us.
- **Become a global leader in the mobile entertainment industry** Over the past 20 years, entertainment has evolved. What once existed only on the TV screen or computer monitor now fits in the palm of your hand. This platform enables experiences never before possible and represents the next wave of innovation in entertainment. Using a combination of creativity and analytics, we want to expand that frontier by delivering the most engaging mobile experiences available.

With recent funding by Sequoia Capital, we have the resources to

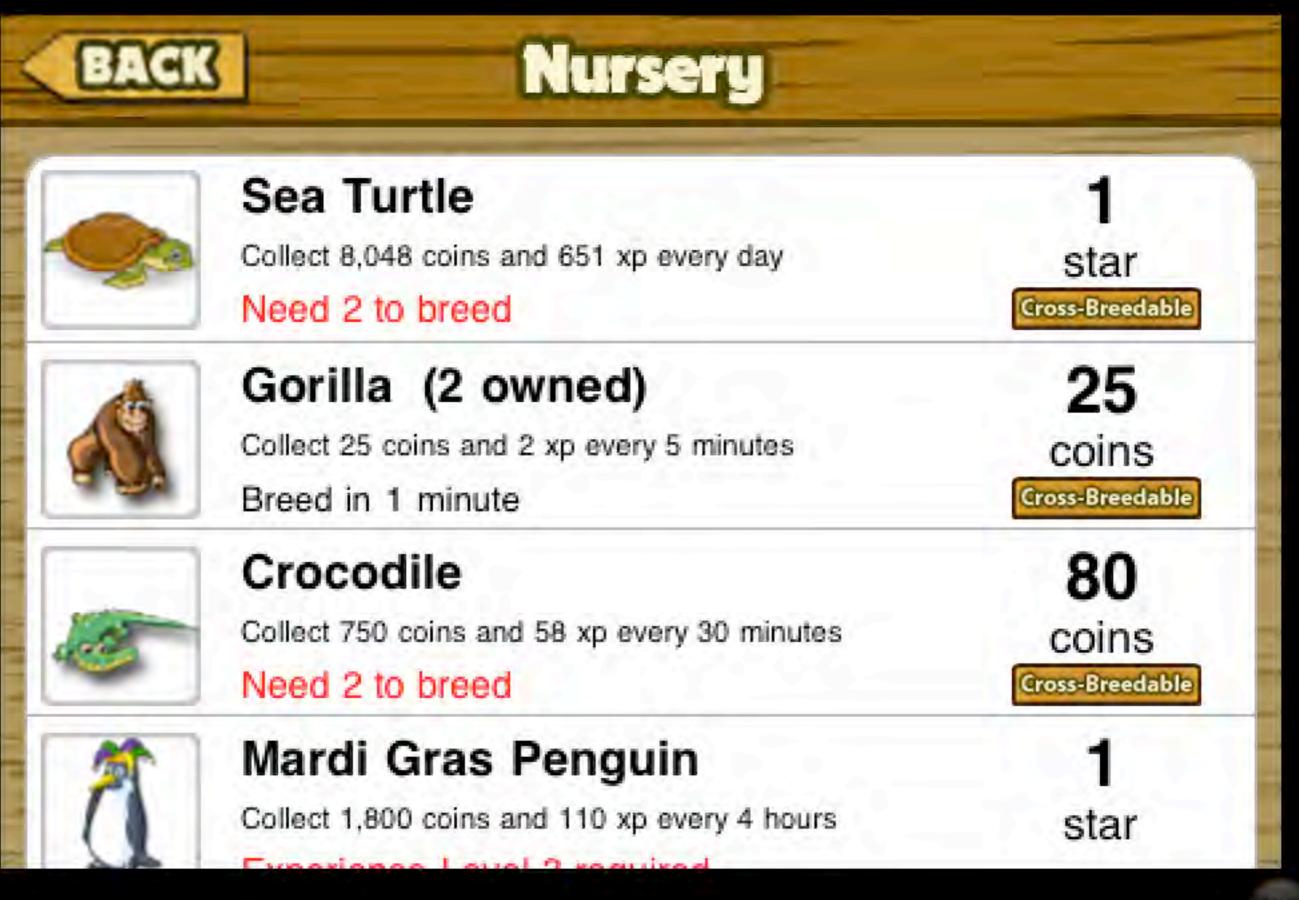
be able to pursue these goals and build upon our successful track record.







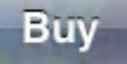




Confirm Your In-App Purchase

Do you want to buy one Trunk of Stars for \$99.99?

Cancel



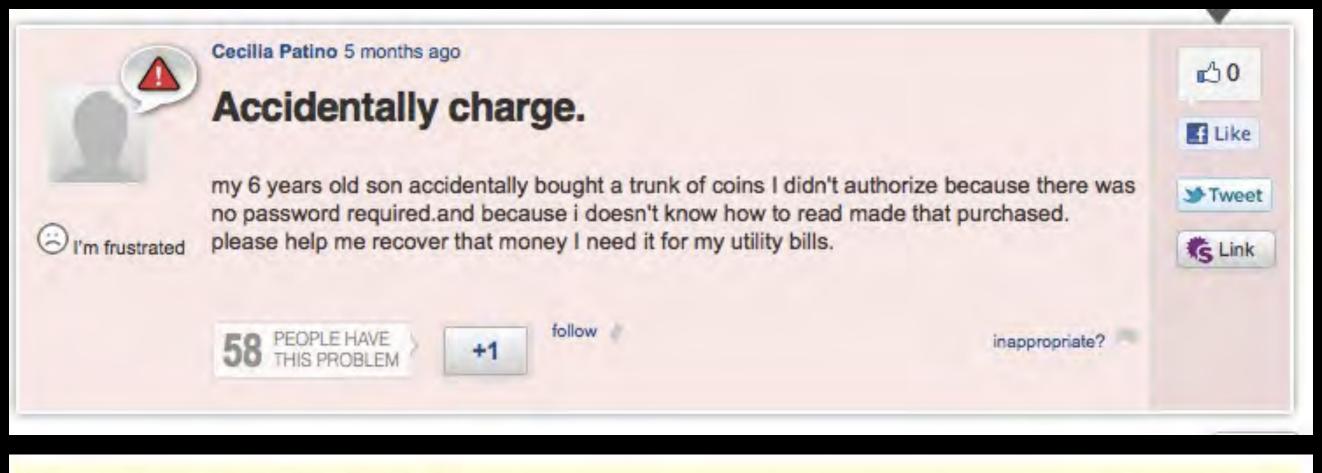
Evil game! * by Gffhddyf - Version 1.7 - Apr 6, 2011

Addicting, but not very fun at all. Your wallet will be empty within a day of this game. You can barely do a THING without money. Maybe when the creator of this game makes this less money-sucking and actually fun, I will redownload it. Don't see that happening though...

43 out of 51 customers found this review helpful

Was this review helpful? Yes | No.

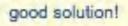
inappropriate?





michelle.sg1 4 months ago

Oh my god, my nephew just charged over \$2000 US worth of Tap Zoo crap in a matter of a couple of days! He had no idea what he was doing. Sister is currently in touch with Apple. This game is ridiculous. She left a review on iTunes just describing what happened and it never appeared. Something is going on here.

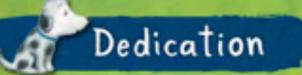


Report a Concern >

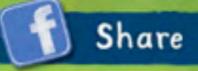
Book or Catalog?

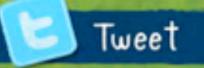












How Rocket Learned

Read

Tad Hills

A Code of Ethics for the Publishers of Interactive Media for Children (http://dustormagic.wikispaces.com)

- I won't sell development, e.g., "smarter, brainy kids," without references.
- I won't hold a child's work hostage, as an incentive to renew a subscription or purchase an additional product.
- I'll understand the difference between informing and selling, especially when embedding brand names or when dealing with the public school system.
- My product or service will treat every child the way I'd treat my own.

Evaluation Instrument for eBooks

Children's Interactive Media Evaluation Instrument, Adapted for Ebooks

KEY: A = Always, equals 1 point. SE = some extent = .5, N = never, or 0 points. NA means "not applicable"

I. EASE OF USE (Can a child pick it up and make it work? Does it enhance feelings of control?)

A SE N NA

1_____ The experience starts quickly with a minimal introduction that can be skipped.

2_____ There is an obvious path to the first page.

3_____ The experience feels crisp and responsive, enhancing a child's feelings of control.

4____ Pages are easy to turn or flip, forward or backward.

5____ Page turn icons are easy to spot.

6_____ A "return to main menu" icon is easy to spot.

7_____ It is easy to jump to another page, anywhere in the ebook.

8_____ If there is a "read to me" mode, it is easy to stop and get back to the main menu to turn it off (you don't feel trapped).

9____ It is easy to adjust the sound.

II. EDUCATIONAL VALUE (What does the child walk away from the experience with, that he/she didn't have when he/she came to the experience?)

1____ Embedded reinforcements are used, to support the story or the learning.

2____ The challenge level can be adjusted.

4____ Games and animations support the story.

5____ Language enrichment techniques are used.

6_____ If the title is a reference, there is an index and the ability to search by keyword.

7____ A child can record their own narration.

8_____ Labeling is clear and directly linked to the finger touch.

9_____There are ways for a child to represent their experience, e.g., through creative expression.

IV. ENTERTAINMENT VALUE (How "fun" is the experience?)

1____ Hot spots provide surprises.

2____ Children will want to return to the experience.

3_____ There's enough content to keep a child interested.

4____ There's enough challenge.

V. FEATURES (Consider the current "state of the art" in children's ebook design)

1____ Fonts are easy to read.

2____ Text is narrated, and if possible, sounded out.

3_____ Bookmarking is used, so a child can come back the same point where he/she left off.

4_____ It is possible to save your work.

5_____ Language translation features are available.

6_____ Sounds, such as page flips, can be turned on or off.

7_____ It is easy to flip a page forward and backward.

8_____ You know how "thick" the "book" is. There is some indication of how many pages are in the book, or how long the story is.

9____ Music can be easily toggled on/off, and doesn't invade a child's imagination.

10_____ In-app sales, if used, can be locked away from a young child.

11_____ External links are limited to the "about us" menu.

12_____ Credits identify the publisher, author, narrator and producing studio, along with a physical address and valid contact information.

IV. VALUE (Rate the ebooks value, comparing competitive products)

1 = Low 10 = High

1 2 3 4 5 6 7 8 9 10

Buckleitner, W., (2011). Children's Interactive Media Evaluation Instrument, Adapted for Ebooks. Children's Technology Review, January 2011, Vol 19, Issue 130.

http://childrenstech.com.

Copyright 2011, Children's Technology Review.

To help you remember





Elements of Quality

Easy to use

Makes you feel powerful quickly -- starts quickly, responsive, reversible, Minimum User Competency (MUC) is below child's developmental level, can jump around between pages, over the shoulder help, minimal or no instructions

Educational

You walk away with something valuable; a skill or competence you didn't have when you came to the experience.

- language
- •math/logic
- •art/music
- science
- social
- geography

Entertaining

Challenging, novel, full of discoveries, social

Features

Value

Preferences let you customize. If it is free, you can lower your expectations.

What does it do vs. how much does it cost?

"False Choice"

A false dilemma (also called false dichotomy, the eitheror fallacy, fallacy of false choice, black-and-white thinking or the fallacy of exhaustive hypotheses) is a type of logical fallacy that involves a situation in which only two alternatives are considered, when in fact there are additional options. (per wikipedia) Technology is bad, so if you use it with children you're also bad.

So if you don't use technology with young children, you're good.

Education is full of false dichotomies.

Whole language vs. phonics Constructivism vs. behaviorism

The reality?

You can find both dust and magic, and there are many shades of gray.

A great place to start....



Technology in Early Childhood Programs Serving Children from Birth through Age 8

A joint position statement of the National Association for the Education of Young Children and the Fred Rogers Center for Early Learning and Children's Media at Saint Vincent College

Proposed 2011

It is the position of NAEYC and the Fred Rogers Center that technology and interactive media are learning tools that, when used in intentional and developmentally appropriate ways and in conjunction with other traditional tools and materials, can support the development and learning of young children.

In this position statement, the word "technology" is used broadly, referring to interactive digital and electronic devices, software, multi-touch tablets, technology-based toys, apps, video games and interactive (nonlinear) screen-based media. Technology is continuously evolving. As a result, this statement focuses on the principles and practices that address the technologies of today, while acknowledging that in the future new and emerging technologies will require continual revisions and adaptation.

The most effective use of technology in an early childhood setting involves the application of tools and materials to enhance children's learning and development, interactions, communication, and collaboration. As technology increasingly finds its way into mainstream culture, the types and uses of technology in early childhood programs have also expanded dramatically to include computers, tablets, e-books, mobile devices, handheld gaming devices, digital cameras and video camcorders, electronic toys, multimedia players for music and videos, digital audio recorders, interactive whiteboards, software applications, the Internet, streaming media, and more. These technologies are increasingly expanding the tools and materials to which young children have access both in their homes and in their classrooms, affecting the ways in which young children interact with the world and with others.

<u>http://www.naeyc.org/positionstatements/technology</u>

This is not a "mandate."

Nowhere does it say you have to use technology.

Can we agree? I. Technology is here to stay. 2. You can raise a happy, healthy child sans technology. 3. Technology has strengths and weaknesses that we need to understand. 4. We tap the power, maximize the strengths and minimize the weaknesses.

BALANCE

Use it to further your goals, and help you with the very hard task of working with young children.



- Join the NAEYC technology interest forum.
- Read the position statement: <u>http://www.naeyc.org/positionstatements</u>
- <u>http://ecetech.wikispaces.com</u>
- <u>http://www.techandyoungchildren.org/</u>
- Meet the "four 'B's" at NAEYC!
- Assignment: Rate 10 versions of the 3 Little Pigs

Sharpen your your ability to assess quality

 Find an iPad
 Search "Three Little Pigs" in the iTunes Store
 Download 10 versions
 Rate them from "don't like" to "like"



Let's Review

- What is the false choice?
- How is a child like a tree?
- Too much technology can _____ the roots.
- What are some real fears about technology?
- Name four ways to reduce the quality of an interactive experience
- What five factors do you use to rate children's IM?
- What makes a children's technology product "evil?"

Thanks!