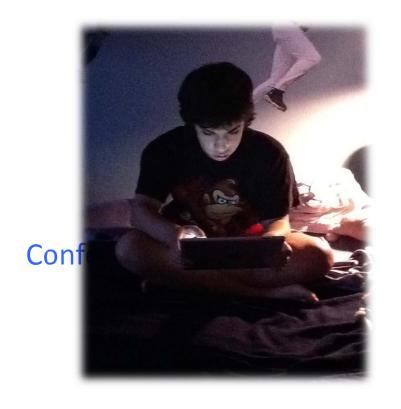
USE OF APP TECHNOLOGY BY INDIVIDUALS WITH FRAGILE X

and a review of some apps we recommend



Presented by H. Laurie Yankowitz, Ed.D. Vicki Sudhalter, Ph.D.

13th National Fragile X

Miami, Florida July 28, 2012

Matthew absorbed by his iPad

EXCITEMENT ABOUT iPADS: Excerpt from promotional video "Apple – iPad, Year One

featuring Howard Shane, Ph.D., Director of Communication Enhancement, Boston Childrens Hospital and Leo's Mom

NOTE: VIDEO FILES TOO LARGE TO UPLOAD Please access using search engines as noted

Google "Apple – iPad, Year One" on YouTube
 to view video



USAGE OF APPS BY INDIVIDUALSWITH FXS: Survey Results

WHAT WE WANTED TO KNOW:

How are apps currently being used by folks with FXS at home?

Is it making a significant difference in quality of life, and if so, how?

What are their favorite apps, and which apps do families recommend?

What are the top apps for math, reading, writing, and communication?

https://www.surveymonkey.com/s/TabletAppTechnology

•

Apps: do they make life better for people w/ FXS?

How are iPads being used by individuals w/ at home?



To watch you tube videos, tv shows, movies, and play games...

What were named the top 5 favorite apps?

You Tube (11), Angry Birds (5), Google (4), iTunes (3), and....

It's not ALL about YouTube

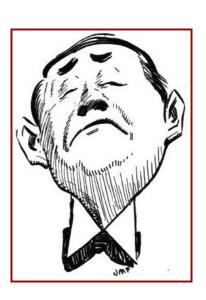
Pizza Fractions, First Words Deluxe, PBS Kids, My Talk Tools, Netflix, Proloquo2Go, and...the Weather Channel (2).....and....



Apps for Individuals with FXS?

...Not an exclusive club!





Disclaimer: No money back guarantee for recommended apps

Samples of some of the best apps for math, reading, writing and communication

We asked:

What are the 3 best apps you have found for helping your family member with....

Apps Being Used by Our Respondents

MATH



PARK MATH MONKEY MATH

PIZZA FRACTIONS MOTION MATH

UMI NUMBERS HUNGRY FISH

MATH BINGO INTRO TO MATH BY MONTESSORIUM

COIN MATH MULTIPLICATION CITY

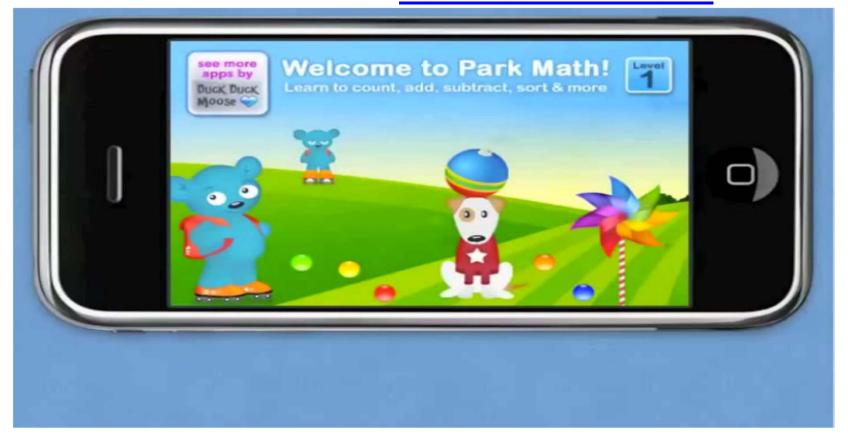
MATHGIRL ADD KIDMATH 5-IN-1

TEACH ME FIRST COUNT

HYPERBLAST COUNTING BEAR

PARK MATH

Google "Park Math" in YouTube or see videoreview at www.a4cwsn.com



MATH BINGO

Search for video in YouTube



Reading



Reading A – Z Photo Touch Sight Words

Green Eggs and Ham Rocket Reads

Zoozoo readables Nick Jr.'s A - Z

Curious George I Like Books

Play sight words Penelope the Purple Pirate

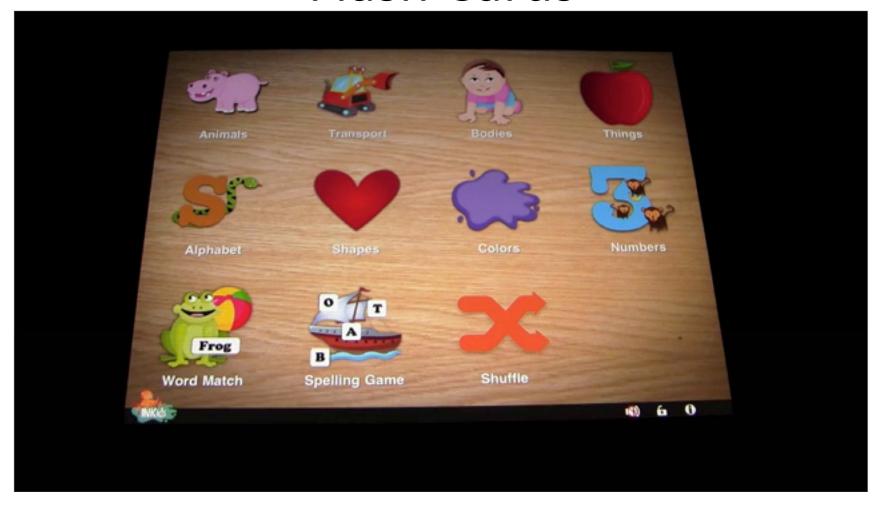
First Words Deluxe Word Wizard

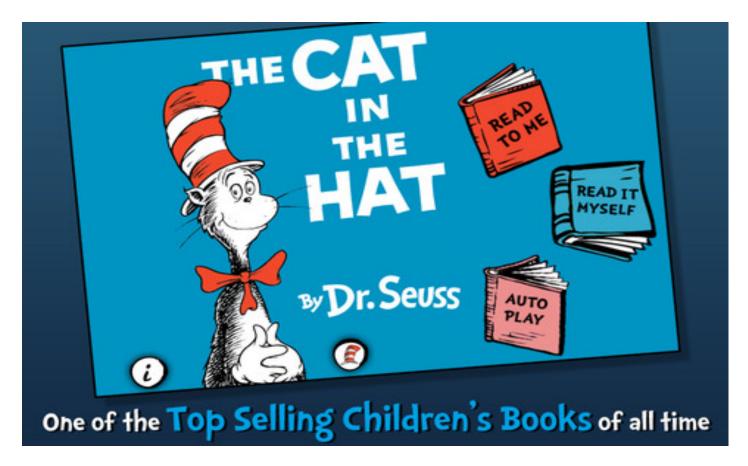
Alphabooks TV Guide (!)

Build a Word Peekaboo HD

A number of respondents noted their kids were especially responsive to apps featuring favorite cartoon characters

Flash Cards





http://www.youtube.com/watch?list=PL51A4DD08 D05DDC8A&feature=player detailpage&v=j3uZq8S 6oJc

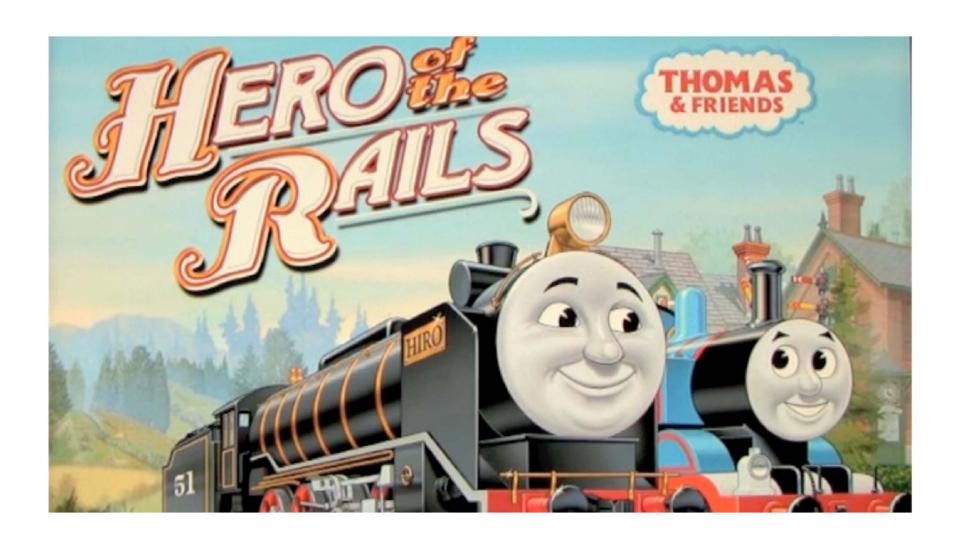


 http://a4cwsn.com/2011/04/nosy-crow-thethree-little-pigs/

Gulliver's Travels



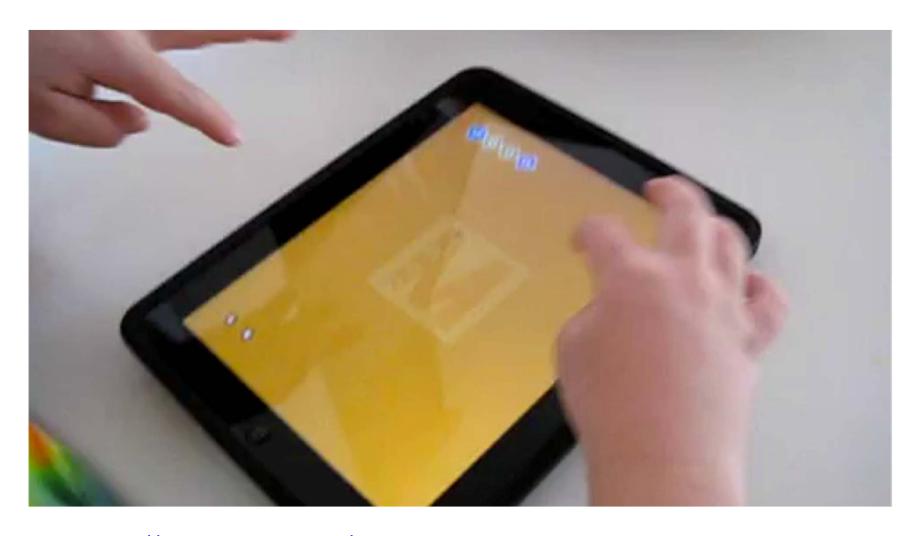
Hero of the Rails



Writing Apps

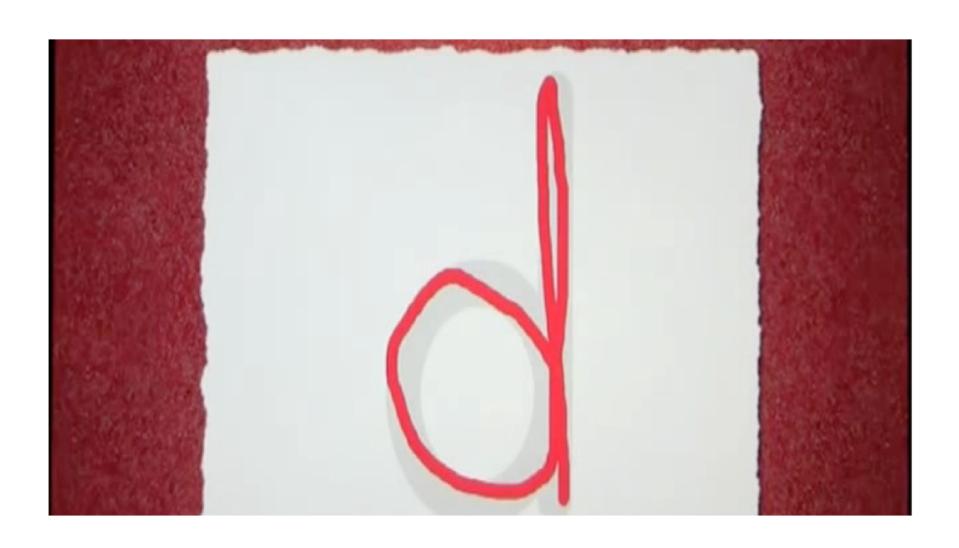
- I WRITE WORDS
- LEARN TO WRITE
- DOTS FOR TOTS
- SHOW ME
- LETTER SCHOOL
- DEXTERIA

I Write Words



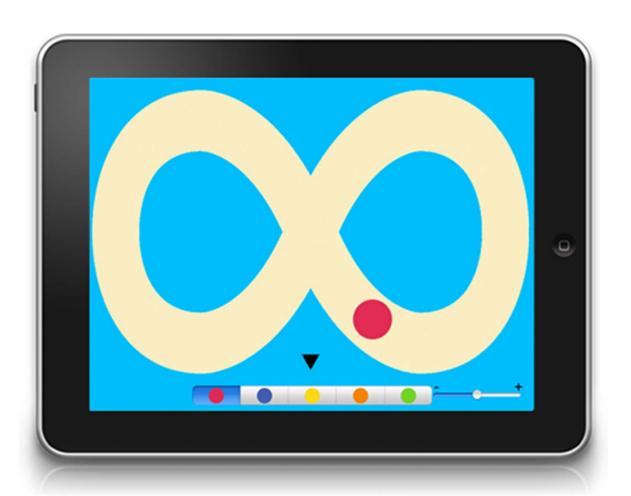
http://www.youtube.com/watch?v=8ZTkPtAyqOY&feature=fvwrel&NR=1

Dexteria



Infinititrack

http://a4cwsn.com/2011/03/infinititrack/



Communication Apps

Splingo

Conversation Builder

Learn to Talk

Tap to Talk

Verbally

Verbal Victor

Touch Chat

Proloquo2go

iPrompts

(One Voice)

Sight Words

• (Grace)

Facebook

My Talk Tools

Facetime (like Skype)

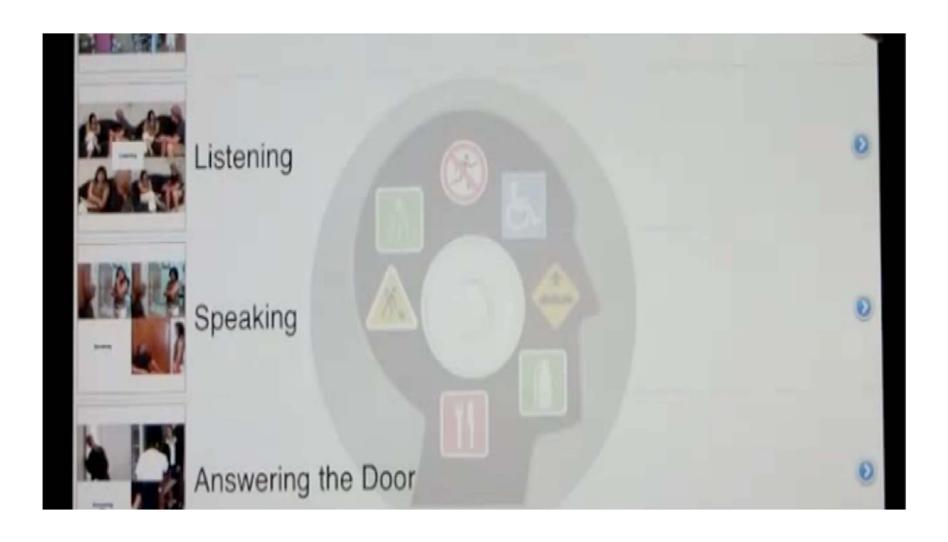
Music Dance Pet Piano (Virtuoso Piano Drums)



Apps for Social Skills

- Model Me Kids
- Social Express
- Functional Skills Systems
 - Going places
 - (Pictello)
 - Toca Boca Tea Party
 - Autism Express

Functional Skills: Communication



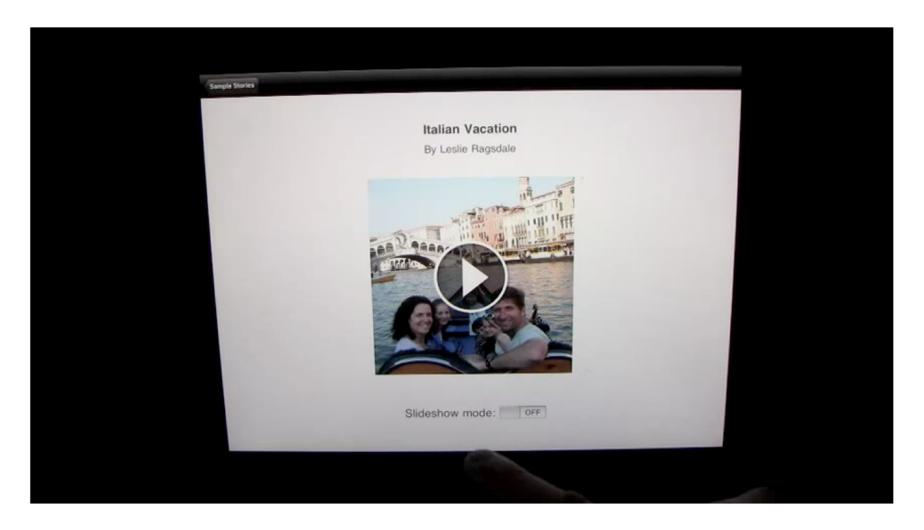
Language Builder



http://a4cwsn.com/2011/02/language-builder/

http://www.youtube.com/watch?v=goD9IQ_9r

Pictello



Also see: http://a4cwsn.com/2011/02/icommunicate/

CHOREPAD



Weather Doodle



Accommodating FXS challenges

--MANY ways to individualize--

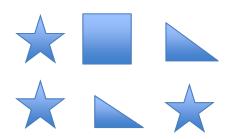


- -- Pace (pre-set speed or manual clicking)
- Audio (computer, your voice, their voice, sound effects, on/off)
- --Visual (choose preferred images, use personal photos)





--Level of difficulty



App Appeal



VERY VISUAL

(bonus: no expectation of eye contact)

Self-determined



Good sense of humor



THANK YOU and HAPPY APPING!

Very special thanks to all the Mothers, Fathers, and others who took the time to complete our survey!

THANKS TO GARY JAMES AND YOU TUBE FOR MAKING VIDEO DEMONSTRATIONS AVAILABLE

To receive a copy of this slide presentation (with bonus slides) by email, please contact:

Laurie Yankowitz, Ed.D. Lyankowitz@aol.com

References and Resources

• www.a4cwsn.com

Dr. Gary James provides over 500 video reviews and demos of apps for childrenw ith special needs

How apps, touch screens are helping children with special needs http://www.mercurynews.com/business/ci 18478215

Smartphones, Tablets Provide Therapy for Cerebral Palsy, Autism http://www.mobiledia.com/news/99818.html

Video of Professor Rhonda McEwen presenting her research on iPads and iPhone touch technology in the classroom http://vimeo.com/17560061

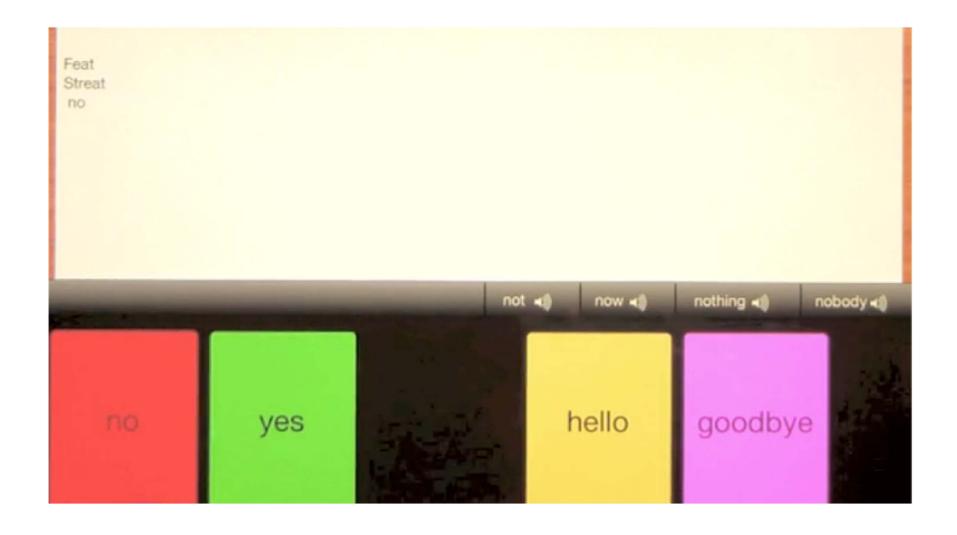
References (cont'd)

Kuttler, Myles, & Carlson (1998). The use of social stories to reduce precursors to tantrum behavior in a student with autism. Focus on Autism and Other Developmental Disabilities, 13 (3), 176 – 182. (copy of article available from Dr. Yankowitz: Lyankowitz@aol.com: the student studied had a diagnosis of FXS)

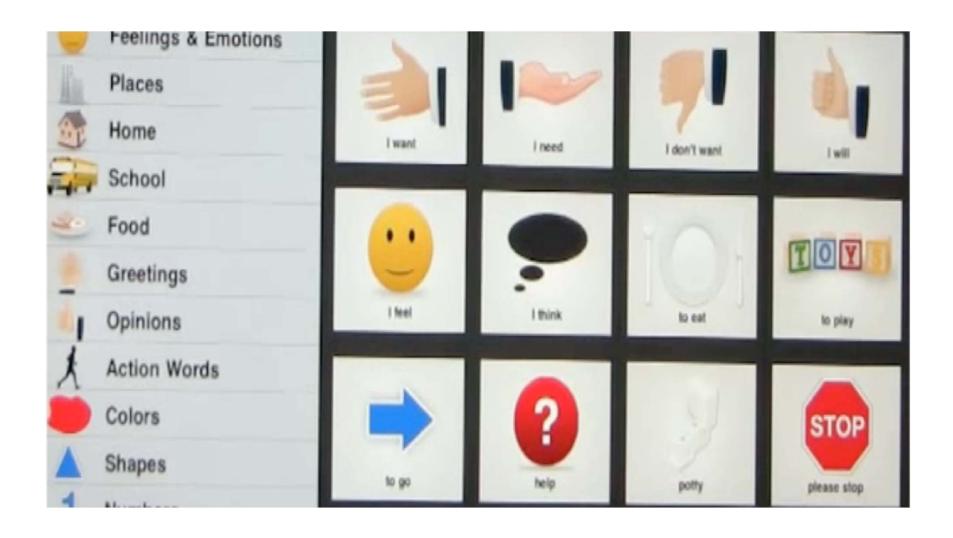
N = 69 AGE RANGE	DEMOGRAPHICS FOR FXS APP USAGE SURVEY 2 – 36	
GENDER	MALE: 57 FEMALE: 12	
Degree of affectedness:	Mild: 8 Moderate: 33 Severe: 22 Profound: 5	
Additional diagnoses:	Autism: 28 Epilepsy: 5 Hyperactivity: 23 ADD: 11 OCD: 9 Anxiety Disorder: 6 Also listed: bipolar, hypotonia, apraxia, sensory processing disorder, disruptive behavior disorder, Expressive-receptive disorder.	
Type of school or program:	General ed: 6 General ed w/ push-in or resource room: 16 Inclusive special ed: 16 Self-contained special ed: 24 Special ed at home: 4 Home-schooled: 4 Full-time paying job: 1 Part-time paying job: 4 Volunteer job: 4 Supported employment: 5 Adult program for special needs: 6 Is home and uses support services: 4 Is home and does not use ss: 1	

Highest degree obtained by parent in houshold:	High School: 8 Associates: 5 BA: 22 Master's: 25 Doctorate/JD/MD: 7
Ethnicity:	Caucasian: 62 Latino/a: 4 Asian: 4 African-American: 2
Household Income:	Over 100K: 25 \$75 - 100K: 12 \$50 - 75K: 15 \$25 - 50K: 5 \$0 - \$25K: 3
Geography:	23 STATES: NY: 13 NJ: 7 CA: 4 AL, MD, PA: 3 GA, MI, MO, MN, NC, OH, OR, VA: 2 CO, CT, FL, ID, IN, MA, SC, VT, WV: 1 5 COUNTRIES: French Canada, Canada, France, India, Portugal Australia URBAN: 19 SUBURBAN: 40 RURAL: 10

Abilipad (text to speech)



One Voice



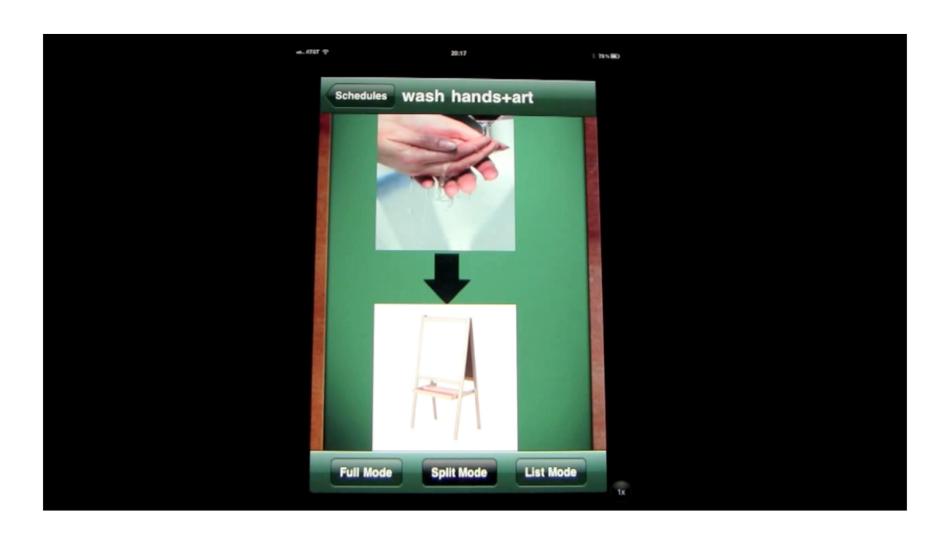
Tally tots (beginning math)



A Bee Sees a good beginner app



First...Then (visual schedule)



ASD Timer (visual timer)



Miscellaneous info from survey

- Frequency of use (of those who answered):
- Several times a day: 16
- Daily: 14
- Several times a week: 3
- Once or twice a week: 3