Seeing Into the Future: Introducing Coding to Young Children
Frances Judd
May 12, 2014

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WebEx How-To

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The TEC Center at Erikson Institute empowers early childhood educators to thoughtfully and appropriately use technology in the classroom and other early childhood settings.

Visit us at: tccenter.ekison.edu

Frances Judd

- Pre-K teacher 27 yrs. - Francis W. Parker School
- Freelance toy/game designer - Playskool/Hasbro
- App designer & developer - Mrs. Judd's Games
- Child development consultant:
  - Citizen's Committee - Juvenile Court System
  - Museum of Contemporary Art Chicago
  - Bennett Day School - Chicago
- Educational app reviewer - AppoLearning

Seeing Into the Future: Introducing Coding to Young Children

Frances Judd
5 ELEMENTS OF CODING & PROGRAMMING IN E.C.E.

- Code
- Sequence
- Loop
- If/Then - conditions
- Tenacity - test for function

Polling Question #1
How often do you explore coding concepts with children?

A. Never
B. Rarely
C. Monthly
D. Weekly
E. Daily

Codes We Teach
Video Clip

- The Confused Robot” by DevTech Research Group
- It shows a child using CHERP coding blocks with a KIWI robot developed at Tufts University.
- http://m.youtube.com/watch?v=dg7eWKvL3Rk
Children collaborate as they plan, record & input their coded commands.

Polling Question #2
How often do you explore robotics with children?

A. Never
B. Rarely
C. Monthly
D. Weekly
E. Daily
All purple CHERP blocks control flow with if/then conditions.

IF/THEN- Daisy the DINOSAUR

Daisy DINOSAUR

free-play mode challenge mode
Sketch IF/THEN Flow Charts

Tenacity

"All engineers design for tolerances."

Tenacity

Tenacity
Show Kids Tangible Interface

Video Clip

- MIT – Tangible Interface
- http://m.youtube.com/watch?v=yWLvQ9u-u_0
Watch For New Robotics That Are DAP For Children

PRIMO

Bee-Bot
LEGO MINDSTORMS

INTELLIGENT BRICK

Polling Question #3
Are coding concepts, activities & resources helpful topics for Teacher ed?

A. Not helpful
B. Rarely helpful
C. Somewhat helpful
D. Yes, always helpful
E. Yes, with a child development lens

Use YouTube as a Resource

- "Robotics in Kindergarten" by TheTechIntegrator
  - It shows kids using BeeBot robots in Kindergarten.
  - http://m.youtube.com/watch?v=yTUyILPLz1p

- "Primo" offered by primo.io
  - It shows an early childhood robotics set called Primo on Kickstarter.
  - http://m.youtube.com/watch?v=WOoEj1_koaY
Workshops at Erikson

Visiting Chicago?
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Register online:
www.erikson.edu/CE

Upcoming Webinars

• Young Children & New Media: Librarians Reframing the Discussion
  with Cen Campbell, M.A. and Amy Koester, M.L.S.
  Thursday, June 5, 2014
  1:00 p.m. - 2:30 p.m. CT

Check back soon for our Fall 2014 Offerings!
www.erikson.edu/CE

Thank You!
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