

Technology Trends and Education

Robin Galloway • INSTTECH 1031 • University of Northern Iowa



What modern technologies do you recognize?

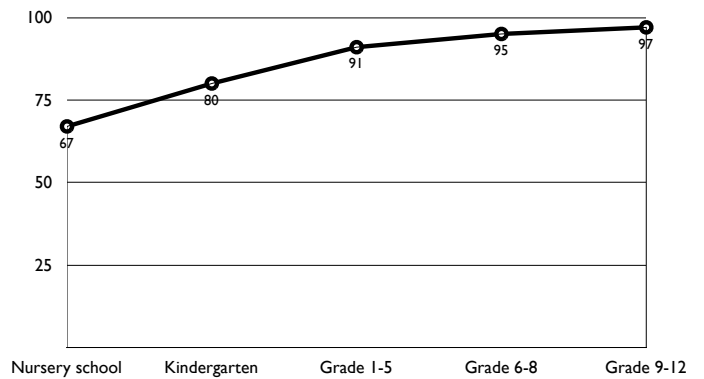


Apple's 1987 Knowledge Navigator Video

Shift Happens

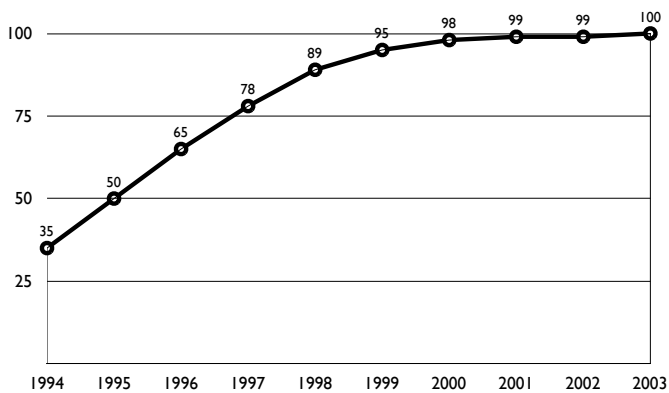
National Center for Education Statistics

Percentage of children using computers (2003)



<http://nces.ed.gov>

Percent of public schools with internet access

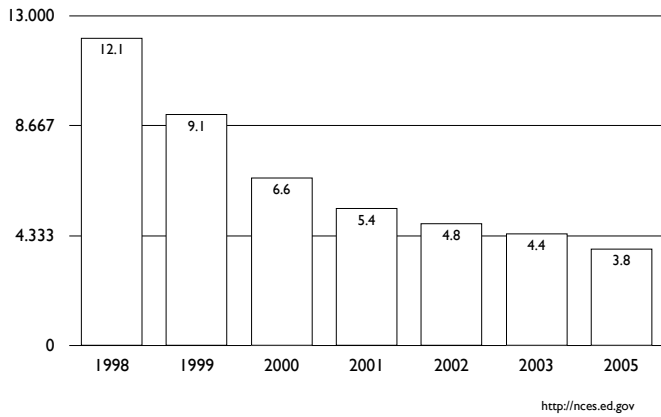


<http://nces.ed.gov>

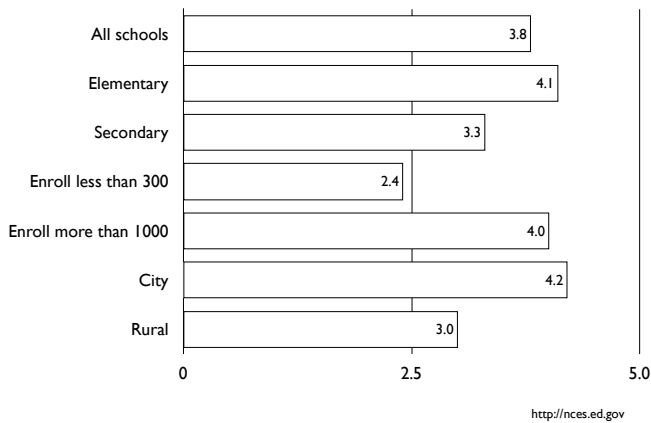


www.mkis.edu.my

Public school students per computer ratio



Public school students per computer ratio (2005)



School Tech



- Interactive Whiteboard/LRS
- Multimedia Document Camera
myladibug.com
- eLearning & LMS
- Open Source & Open Content
oercommons.org
<http://goo.gl/BdHIA> (Wesley Fryer)
- Mobile & I:1 environments
- Project-based learning (PBL)

1 to 1 schools.net

(click for Google map)



edutopia
THE GEORGE LEVAK EDUCATIONAL FOUNDATION

WHAT WORKS IN PUBLIC EDUCATION

Core Concepts Videos Blogs Groups

SCHOOLS that WORK HOW YOU CAN DO IT

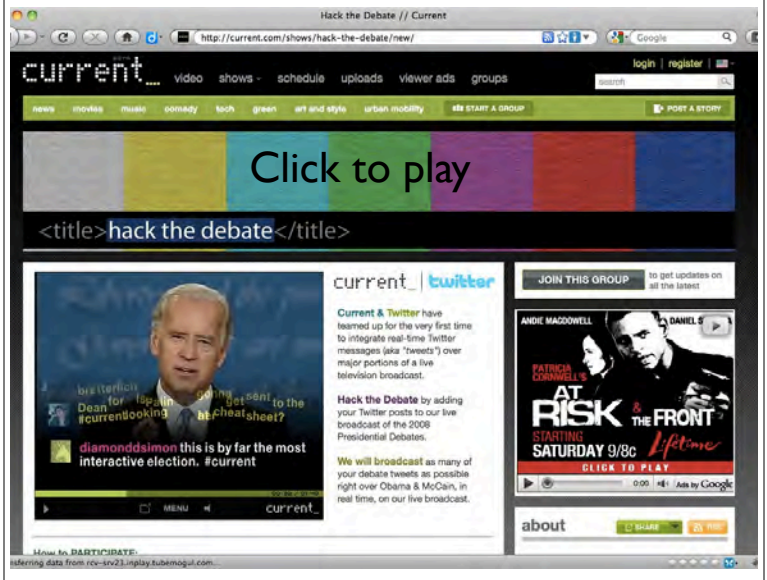
Discover successful schools and strategies across the country -- and use their best teaching practices, training materials, and rubrics with your students.

Featured Strategy
Project Learning Meets 1-to-1 Laptop Technology
 Location: Portland, Maine
 Grades: 9-12
 Mission: To transform the learning process with technology-intensive projects that benefit the community and promote high academic achievement.



@sethdenney

Discover more educators on Twitter:
twitter.com/rgalloway/educators



Using Twitter for "Sentiment Analysis"

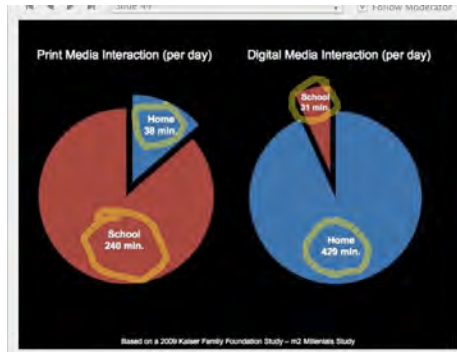


The First Digital President?

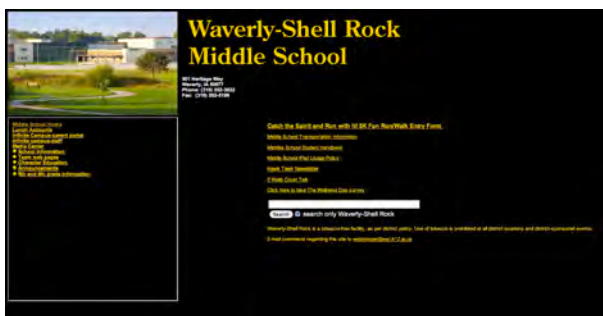


Today's education system faces irrelevance unless we bridge the gap between how students live and how they learn.

—Partnership for 21st Century Learning
21stcenturyskills.org



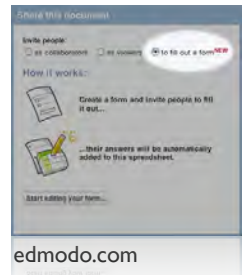
Mr. Groth's Class Website: <http://goo.gl/ea6vO>



collaboration Telecommunication Tools

googledocs.blogspot.com

- Google Apps apps.google.com
- Backchannel todaysmeet.com
- Video wevideo.com skype.com
- Creativity skrbl.com glogster.com
- Wikis wikispaces.com pbwiki.com
- Blog, Micro-blogging twitter.com edmodo.com
- Social Networking ning.com facebook.com
- Multimedia voicethread.com animoto.com



It's a Smaller World After All

- Technology flattens the world
 - ▶ Routine tasks now easily automated, off-shored
- eLearning
 - ▶ tutoring, exam prep
 - ▶ language instruction
 - ▶ virtual schooling
 - ▶ just-in-time learning



Tutor Vista

- Bangalore, India
- Real-time, web-based, one-on-one tutoring
- Math, English, Science, college entrance prep
- Unlimited tutoring, \$100/mo



www.tutorvista.com

Virtual Schooling

Any Time, Any Place, Any Path, Any Pace –Florida Virtual School



- Florida Virtual School www.flvs.net
 - ✓ Founded 1997
 - ✓ 97,000 students enrolled in 2009-10 (nationwide)
 - ✓ 100+ courses for grades 6-12
- Michigan, North Carolina, Iowa, etc.

mivhs.org ncvps.org iowafuture.org iowalearningonline.org
Iowa eCurriculum Going Live

Convergence



What's wrong with this picture?



prometheanplanet.com



TED Ideas worth spreading

Themes: TED Conferences, TED Community, About TED
Speakers: TEDx Events, TED Blog
Talks: TED Prize
Translations: TED Fellow

TALKS
Pattie Maes and Pranav Mistry demo SixthSense

TED2008, Filmed Feb-2009, Posted Mar 2009

About this talk

This demo – from Pattie Maes' lab at MIT, spearheaded by Pranav Mistry – was the buzz of TED. It's a wearable device with a projector that paves the way for profound interaction with our environment. Imagine "Minority Report" and then some.

About Pattie Maes

At the MIT Media Lab's new Fluid Interfaces Group, Pattie Maes researches the tools we use to work with information and connect with one another. [Full bio and more links!](#)

About Pranav Mistry

Pranav Mistry is the inventor of SixthSense, a wearable device that enables new interactions between the real world and the world of data. [Full bio and more links!](#)

About our sponsor

IBM is helping to make our world's systems smarter. Find out how. [Click here!](#)

total: \$350

What to watch next

<http://tinyurl.com/ac4ees>

Google Glasses

YouTube

Project Glass: One day...

Google

6 Subway service suspended.

0:40 / 2:30

13,289,109

Published on Apr 4, 2012 by Google

We believe technology should work for you — to be there when you need it and get out of your way when you don't.

88,725 likes, 4,069 dislikes

Act: Like

MUVEs

Multi-User Virtual Environments

- immersive environments
- simulation, role playing
- learning & training
- marketing, live events, product demos, retail



secondlife.com
activeworlds.com
clubpenguin.com
webkinz.com
imvu.com
runescape.com

Second Life

- Opened in 2003
- Constructed by its 21+ million residents
- Real \$\$\$ for avatars, merchandise, land, etc.
 - ▶ \$22M USD Q4 2010
- Main grid & teen grid until 2010
 - ▶ now main grid only for those 16+



www.secondlife.com
NETG Tour, YouTube
NMC Campus, YouTube
Ohio University SL
Introduction to SL

What's ahead?

