



Multiple Intelligences and Instructional Technology



Walter McKenzie
VSTE Conference
April 14, 2005



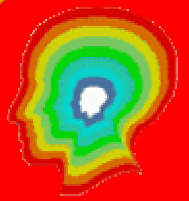
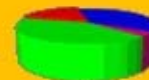


The Mysterious Mind

Do all minds think alike?

Do great minds think alike?

And should they?

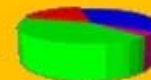




I think.....

therefore.....

I am!

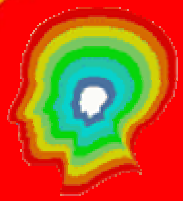
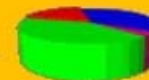




I think.....

therefore.....

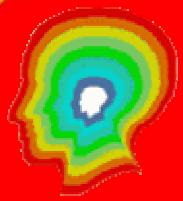
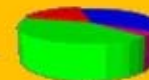
MI!

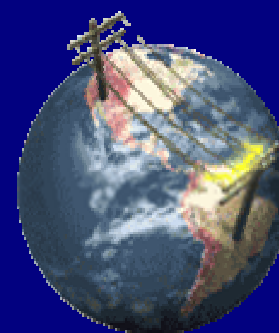
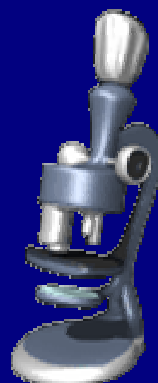
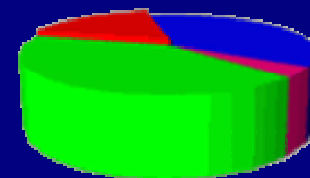




"The ability to solve problems
and create products that are of
value in one's own culture."

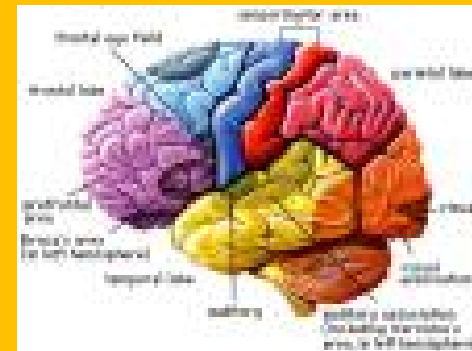
-Howard Gardner







If the human mind has an operating system, Gardner's model is the manual that attempts to explain how it runs.





Thinking Differently

MI Survey Scoring Report

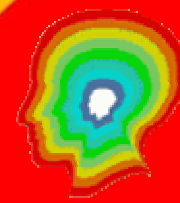
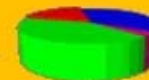
To graph your results, simply highlight the range B6:C22 and click on the Chart Wizard Button.



Verbal	6
Logical	5
Visual	4
Musical	2
Kinesthetic	7
Interpersonal	7
Intrapersonal	7
Naturalist	4
Existentialist	5

	% out of 30 items	proportion out of 100%
Analytic:	37%	23%
Interactive:	67%	43%
Introspective:	53%	34%
		out of 100%

Strongest Domain: **67%**





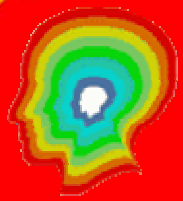
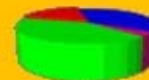
Thinking Differently

The Power Of Design

Business Week

May 17, 2004

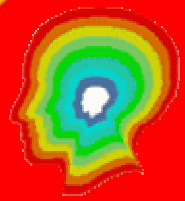
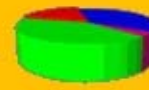
IDEO redefined good design by creating experiences, not just products. Now it's changing the way companies innovate





Thinking Differently

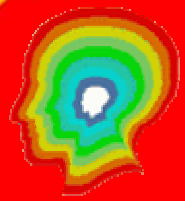
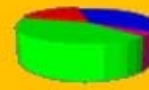
Kaiser nurses, doctors, and facilities managers teamed up with IDEO's social scientists, designers, architects, and engineers and observed patients as they made their way through their medical facilities. At times, they played the role of patient themselves.





Thinking Differently

Together they came up with some surprising insights. IDEO's architects revealed that patients and family often became annoyed well before seeing a doctor because checking in was a nightmare and waiting rooms were uncomfortable. They also showed that Kaiser's doctors and medical assistants sat too far apart.

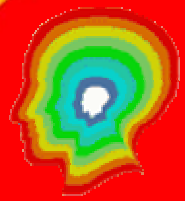
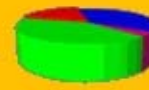




Thinking Differently

People, especially the young, the old, and immigrants, visit doctors with a parent or friend, but that second person is often not allowed to stay with the patient, leaving the afflicted alienated and anxious.

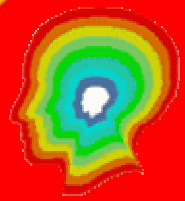
Patients also hate examination rooms because they often wait alone for up to 20 minutes half-naked, with nothing to do.





Thinking Differently

Kaiser realized its long-range growth plan didn't require building expensive new facilities. It realized that seeking medical care is a social experience. So it needed to offer comfortable waiting rooms and a lobby with clear instructions on where to go; larger exam rooms with space for three or more people and curtains for privacy.

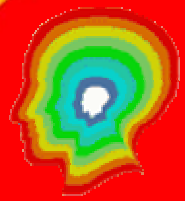
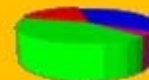




Thinking Differently

How does IDEO do it?
Techniques such as

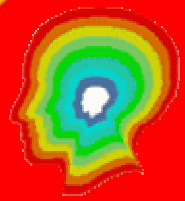
- bodystorming
- behavioral mapping
- quick and dirty prototyping
- deep dives
- unfocus groups
- shadowing
- be your customer





Thinking Differently

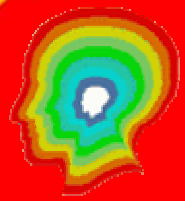
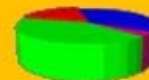
IDEO sent AT&T Wireless managers in San Francisco to find a CD by a certain Latin singer, a Walgreen's that sold its own brand of ibuprofen, and a Pottery Barn catalog. It was too difficult to do with their mMode service; they used newspapers and phone books instead.





Thinking Differently

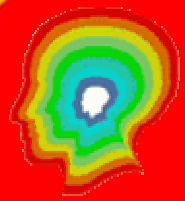
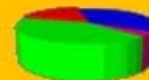
"Even teenagers didn't get it," says Duane Bray, of IDEO. As a result AT&T Wireless came up with a new mMode platform organized like a Web browser's favorites. A consumer can make up an individualized selection of sites, such as ESPN or Sony Pictures and ring tones. Nothing is more than two clicks away.





Thinking Differently

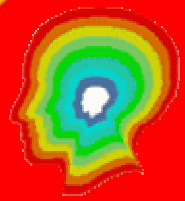
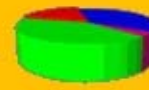
An mMode Guide on the page allows people to list five places - a restaurant, coffee shop, bank, bar, and retail store - that GPS location finders can identify in various cities around the U.S. Another feature spotlights the five nearest movie theaters that still have seats available within the next hour.





Thinking Differently

Stanford University has just committed to raising \$35 million so that IDEO can create a "D-school," a new design school that may one day match Stanford's famed B-school. Stanford professors in business, engineering, social sciences, and art will teach there.

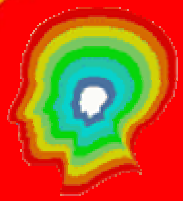
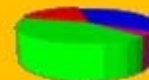




Thinking Differently

What assumptions have we made about schools and technology?

What could we discover about our end-users and their experience?

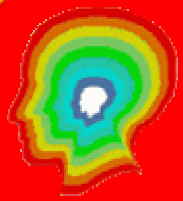
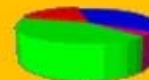




Thinking Differently

Do we make technology
a natural extension of
how children learn?

Do we make technology
a seamless extension of
how and what we teach?

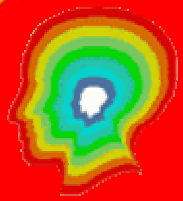
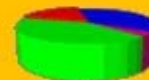




Thinking Differently

Do we get in the way of students & technology?

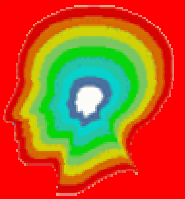
What happens if we let go and allow technology to empower students?





Thinking Technologically

It's time to rethink technology in terms of how we connect with our end users.

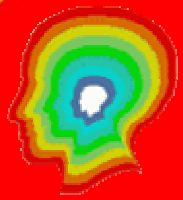
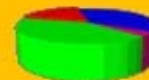




If the only tool you have is
a hammer.....



.....everything around you
looks like a nail.





Thinking Technologically

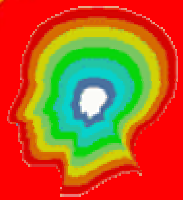
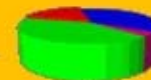
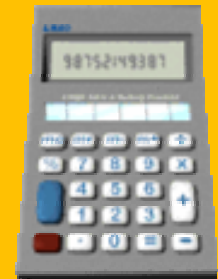


Verbal

Word processing, desktop publishing, email

Logical

Spreadsheets, search tools, WebQuests





Thinking Technologically

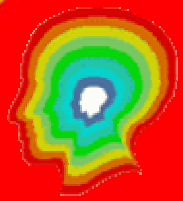
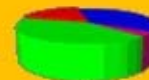
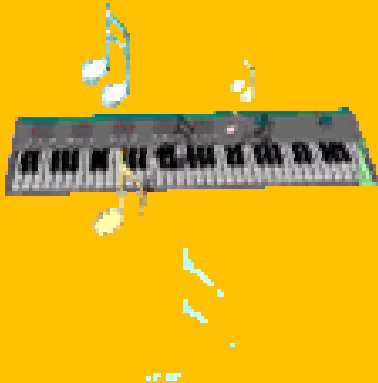
Visual

Slide show, web site design,
digital video



Musical

Multimedia, digital recording,
scavenger hunt





Thinking Technologically

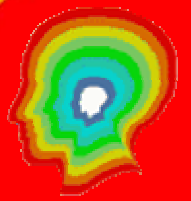
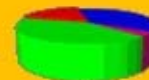
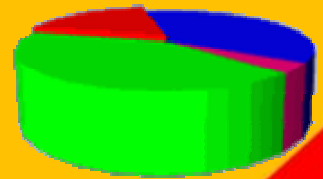
Kinesthetic



Video game, digital probe, assistive technology

Naturalist

Database, digital scrapbook, semantic mapping tool





Thinking Technologically

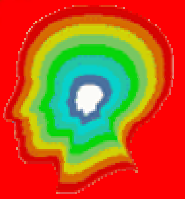
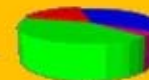


Intrapersonal

Online surveys, digital portfolios,
real time projects

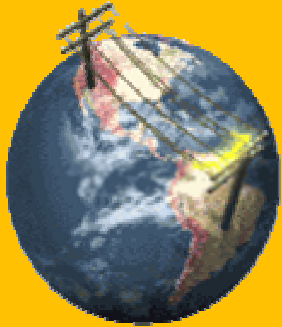
Interpersonal

Chat, collaborative projects,
videoconferencing



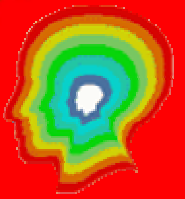
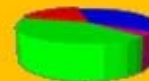


Thinking Technologically



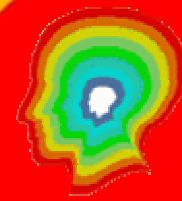
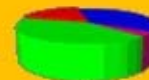
Existential

Simulations, virtual communities, blogs, wikis, virtual field trips





In our hands,
technology is not just
another classroom tool;
it connects all the intelligences
and becomes a
path to authentic learning.





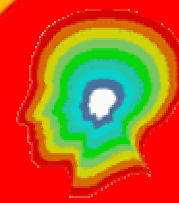
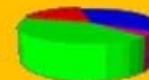
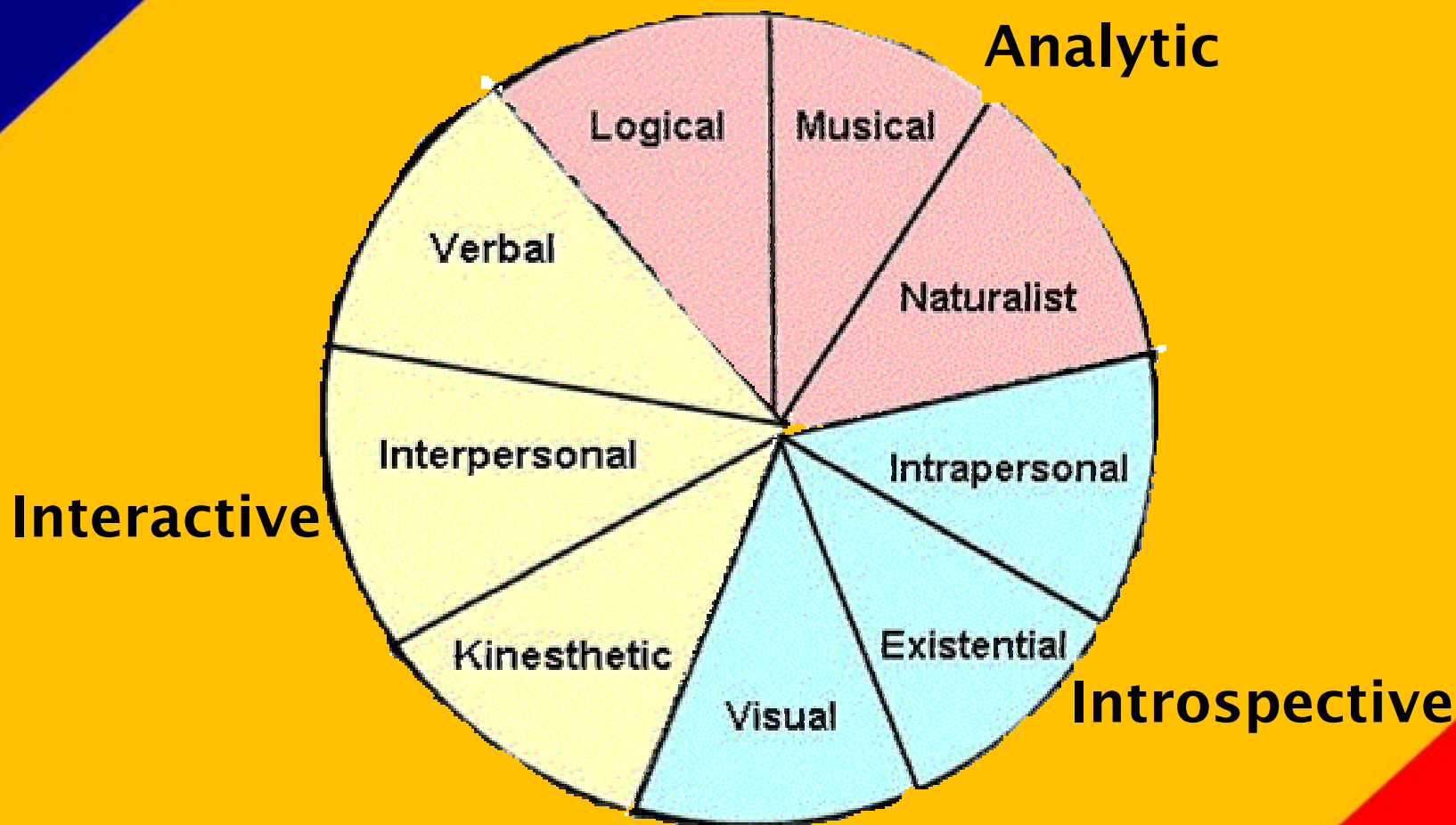
Planning Process

Learner ► Objective ► Intelligences ► Technology





Domains



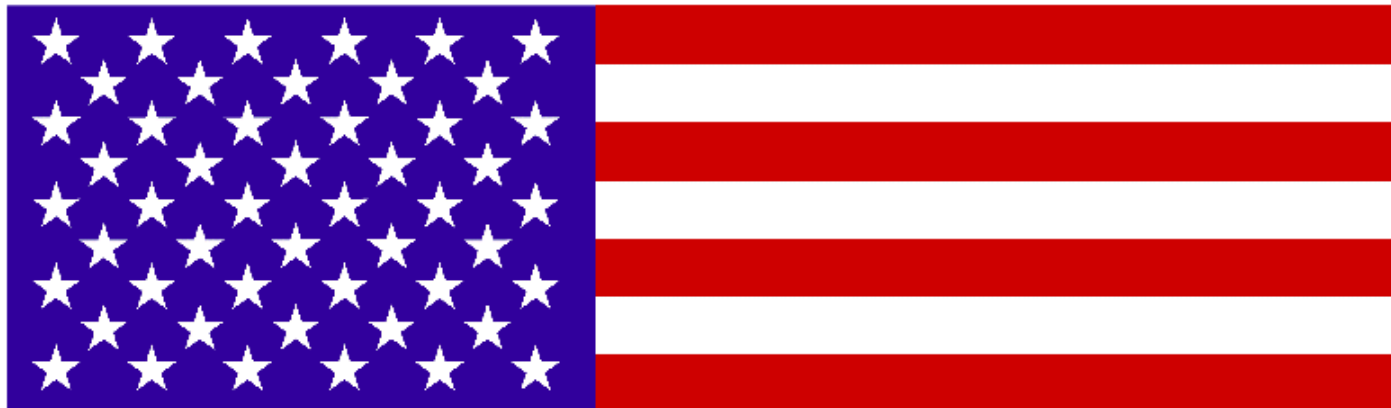
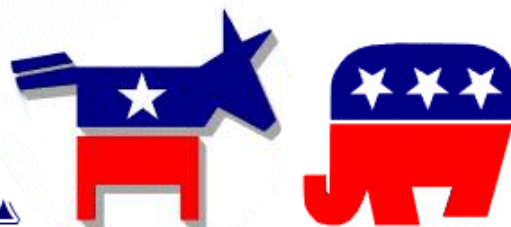


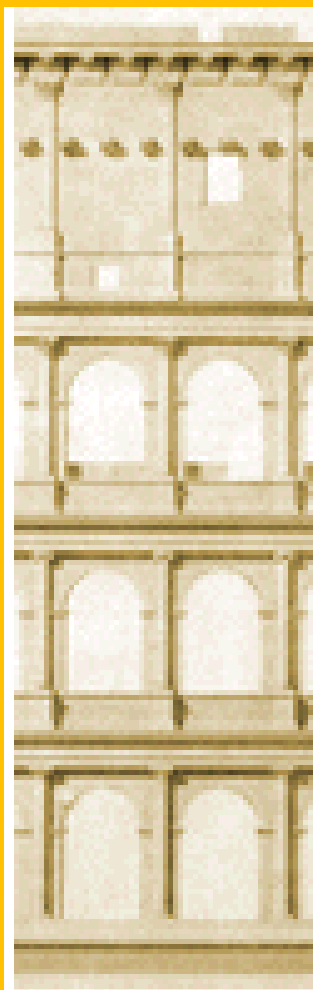
Unit Model



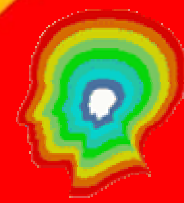
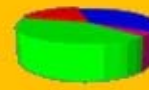


2004 NATIONAL CYBERCONVENTION





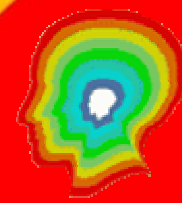
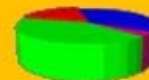
The Art & Architecture Project





The

elditarod Project

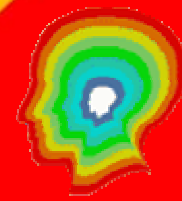




Karen Ellis

Educational
CyberPlayground
Guavaberry Books

A personal passion of hers, Karen tries to get ed techs, classroom and music teachers to record childrens' songs and submit them to the online library project she created called the [National Children's Folksong Repository \[NCFR\]](#).



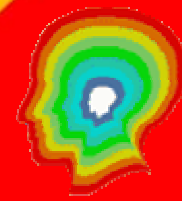
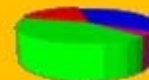


Dennis O'Connor

Online Instructor
Illinois Math and
Science Academy



Known as the [Wired Instructor](#), Dennis hosts such vibrant student writing projects as KMSoul and Nevada: Writing About Place, through which students get their first taste of being published online. His online courses help teachers make connections through technology.

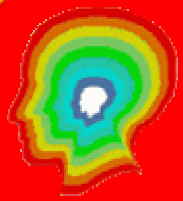
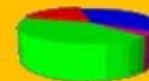




Tami Brass

Technology Coordinator
Oak-Land Junior High
Lake Elmo, Minnesota

Tami has been central to instituting a 1:1 laptop initiative at her school. She has been responsible for designing the program, developing policies, training staff, training students to launch the first 1:1 public junior high in Minnesota.



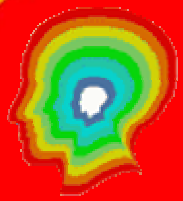


Will Richardson

Supervisor of Instructional
Technology

Hunterdon Central High School
Flemington, New Jersey

Will has been one of the most influential people in getting web logs (blogs) used in K-12 schools across the US. His [Web-logged](#) is probably the most widely read blog among educators today.



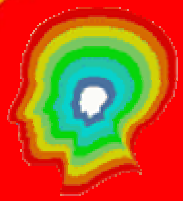
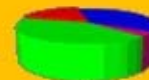


Carol Anne McGuire

Teacher of the Visually Impaired
Imperial Elementary School
Anaheim, California



Rock Our World is an International project involving 9 classes in 8 countries on 6 continents. It incorporates the entire iLife Suite as Students from each country share their stories through words, still pictures and movies, composing songs together in a truly collaborative effort!

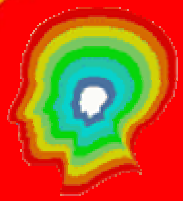




Brenda Dyck

Middle School Teacher
Masters Academy
Calgary, Alberta

The Web-based projects Brenda Dyck develops for students are substantive, meaningful explorations of real-world issues which middle schoolers are ready to explore: [The Eleanor Rigby Project](#), [Stories from the Streets](#) and [Not Just Another Pretty Face](#).





New Technologies

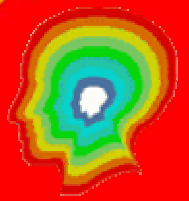
Blogs

Wikis

GIS

Mobile Computing

Virtual Reality





Best Strategies

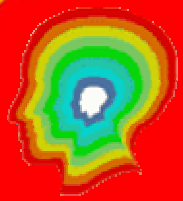
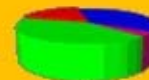
Collaboration

Critical Thinking

Information Literacy

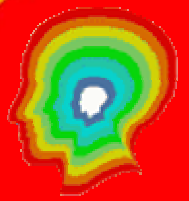
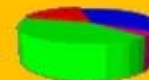
Real World Applications

Authentic Assessments





The Story of Jamie





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