

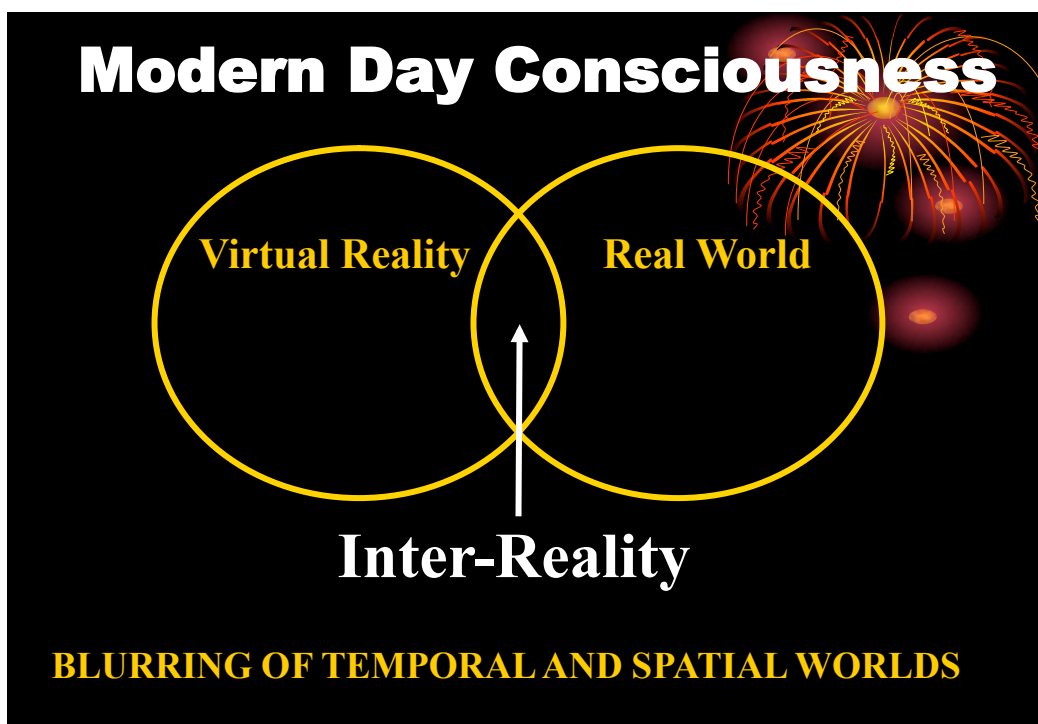
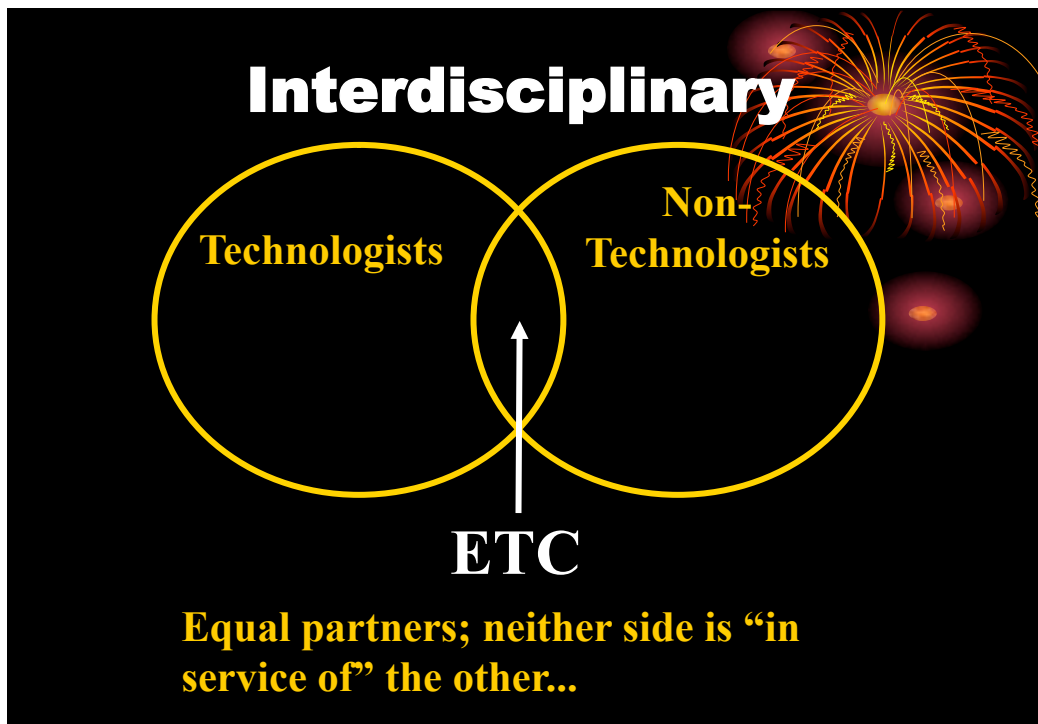




Don Marinelli (Drama) Randy Pausch (CS)
Year 2000

Three Pillars of the ETC

- **Educational Program (Master of Entertainment Technology - MET)**
- **Industry Research**
 - **For-Profit Corporate sponsors**
 - **Not-for-Profit Sponsors**
 - **Hospitals, museums, science centers, schools, charitable organizations**
- **Entrepreneurialism**
 - **Student created IP**
 - **Start-ups**



Triumph of the Gamer



The *SATE* Curriculum

Advocated by the Themed
Entertainment Association (TEA)

- **STORYTELLING**
- **Architecture**
- **Technology**
- **Experience**

The New Poetics

- Plot
- Character
- Theme
- Diction
- Music
- Spectacle
- Interactivity
- Immersion
- Agency & Navigation
- Transformation

"Create a world that is more real than reality." -

"Virtual reality can be defined as "an event or entity that is real in effect, but not in fact.""

Janet Murray, *Hamlet on the Holodeck*

A SATE CURRICULUM: STORYTELLING

- **Storytelling is a craft.**
- **"Climactic Plot Structure"**
- **All students take *Improvisational Acting* focusing on non-linear narrative and team building.**
- ***Visual Story* – tell a story in pictures**
- ***Focus is Always How Technology Facilitates Story.***

Teaching the Story By the Story:

- Cause-and-Effect Understanding
- Trial and Error Exercise
- Values, Culture, Myths and the Process of Socialization
- Problem-Solving Techniques
- Probabilistic Reasoning
- Teleological Reasoning
- Compression of Life
- Discerning Meaning & Wisdom

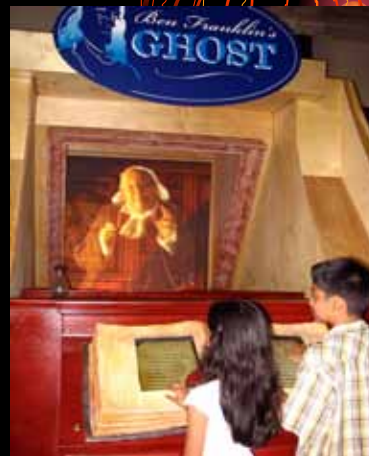


Carnegie Library *My Story Maker*



Ben Franklin *Synthetic Interview* - Philadelphia

- **Synthetic Interview is a proprietary CMU technology.**
- **Synthetic Interviews have been created for:**
 - **Albert Einstein**
 - **Charles Darwin**
 - **Abraham Lincoln**
 - **George Westinghouse**
 - **Me!**



Living History – U.S.S. Requin WWII & Cold War Submarine



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A *SATE* CURRICULUM: *ARCHITECTURE*



- **Within the realm of digital media, architecture has a mathematical basis in the form of polygons.**
- **Polygons are the molecules, the building blocks, of virtual space.**
- **They can be combined to form various shapes with specific properties.**

A SATE CURRICULUM: ARCHITECTURE

Virtual architecture is anatomical.

It features a “skeletal” wireframe upon which is laid a “musculature” of texture, color, light, reflective qualities, and other detail.

Walls are created via collision detection algorithms.

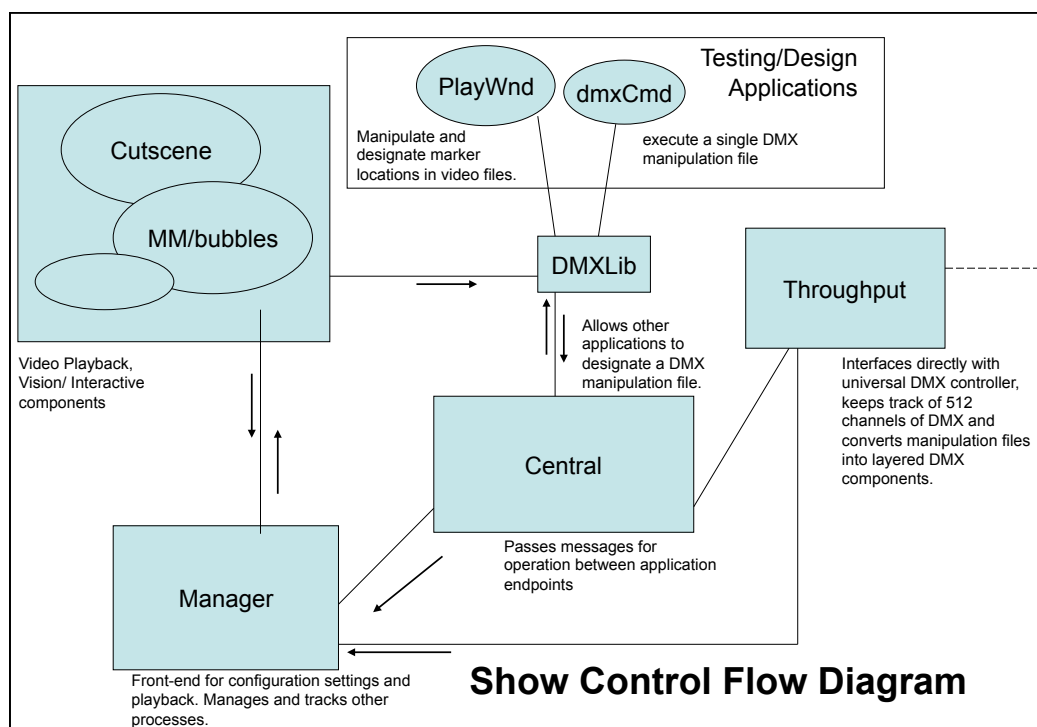
Mass is essentially an illusion.





Interactive Web sites/MMORPGs

SPORE is a Complete Ecosystem



A SATE CURRICULUM: ARCHITECTURE



- **We focus instead on creating our own themed environment; with the goal of making the ETC Carnegie Mellon University's theme park.**

A SATE CURRICULUM: ARCHITECTURE



SATE CURRICULUM: *ARCHITECTURE*



A SATE CURRICULUM: *ARCHITECTURE*

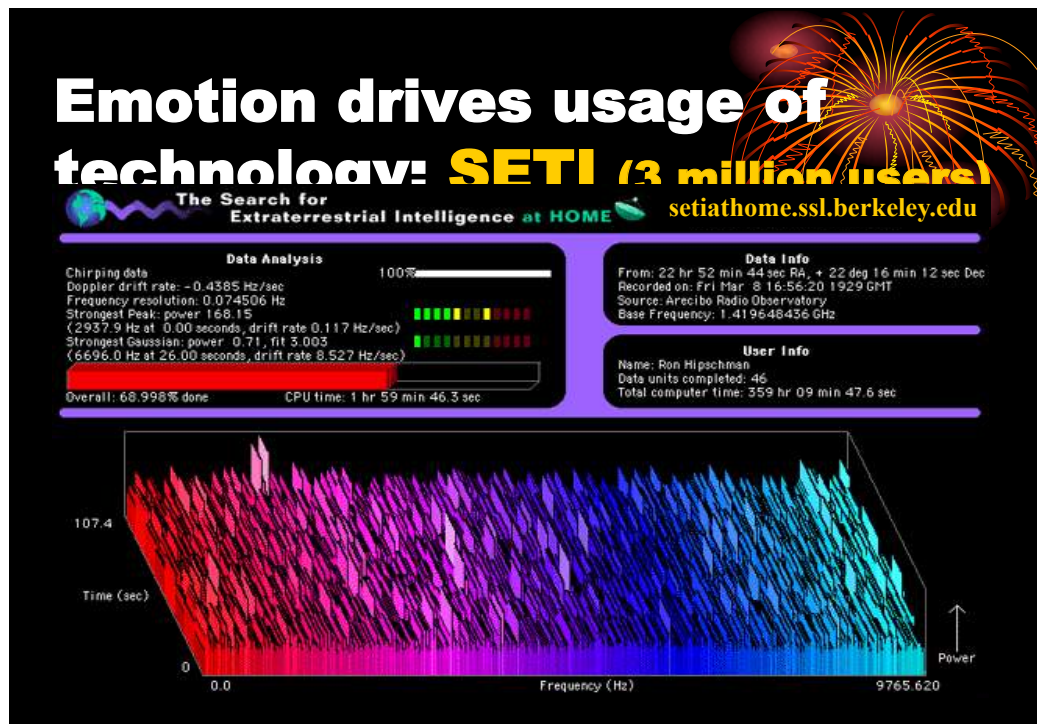


A *SATE* CURRICULUM: ARCHITECTURE



The *SATE* Curriculum Advocated by the Themed Entertainment Association (TEA)

- **Storytelling**
- **Architecture**
- **TECHNOLOGY**
- **Experience**

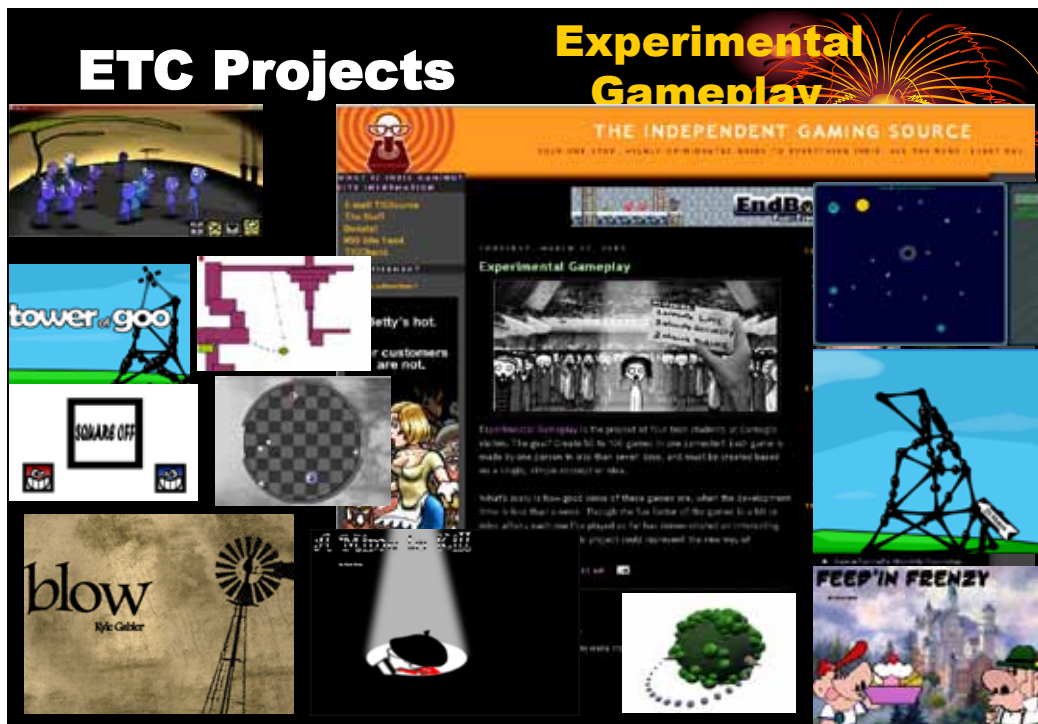


A SATE CURRICULUM: TECHNOLOGY

- **Augmented Reality**
- **Alternate Reality**
- **4D Immersive Experiences**
- **Aggregation/experimentation of Input & Display Technologies**
- **Expanded Applications of New and Existing Technologies:**
 - **Edutainment**
 - **Medical Diagnosis & Therapy**
 - **Information and Creation Management**
 - **Advanced Social Networking**

ETC Projects

Experimental Gameplay



ETC Projects

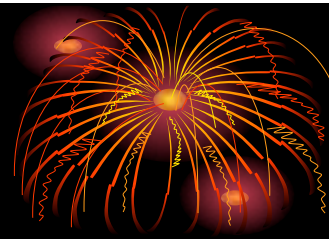
Jam-O-Drum





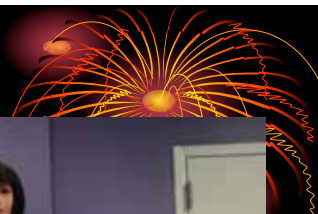


Quasi was created by a team of students at Carnegie Mellon's Entertainment Technology Center.



A SATE CURRICULUM: TECHNOLOGY

Humanoid Robotics



People Will Show us How to Use Technology

- All we need to do is watch, look, and listen.
- Then we can properly define the question.



Duh.....



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- **Technology**
- **EXPERIENCE**



Riders on "The Incredible Coaster" are thrust upward 150 feet in less than 3 seconds.

Building Virtual Worlds Performance



Building Virtual Worlds



White Water Rafting



- **Start Getting Students OUTSIDE**
- **Reintroduce DANGER**
- **Ask for an artistic/creative interpretation of the adventure**
- **Share**

Ropes Course Team Building Exercises



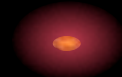
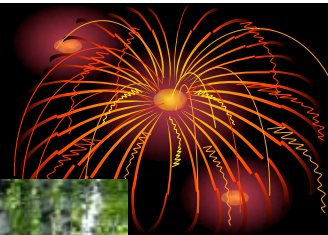
Hiking Field Trips



Horseback riding



Off Road Driving



- **Zeppelin Ride over San Francisco/Silicon Valley**



A *SATE* CURRICULUM: *EXPERIENCE*

- **Myriad Field & Adventure Trips Designed to Establish an Experiential Vocabulary:**
 - **Annual West Coast Trip**
 - **Muir Woods & Other Immersive Experiences**
 - **Hiking/Biking/Horseback Riding**
 - **Ropes/Obstacle Course**
 - **Spelunking**
 - **Whitewater Rafting**
 - **Paintball**
 - **Off-road activities (Hummers, ATVs)**
 - **Ocean Cruises**

The *SATE* Curriculum **Advocated by the Themed Entertainment Association (TEA)**

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