

Today

Art-Science-Engineering discussion

- ❖ Check your grades, make sure we are up to date, that your file submissions and postings are correct.
- ❖ Do your reviews of others' work.
- ❖ Read reviews of your work and make corrections (5151 students need archival refs)
- ❖ Team Third due today
- ❖ Lobby Show on Weds Dec 12 Noon - 1

- Invite your friends and family!
- Need volunteers at 11 and 1 for
- Blackout windows
- Set up screen
- Furniture moving
- Food setup and monitoring
- Cleanup/ take down

was April 9+team number

POST Dates for Team Third

Team 4	5	6	7	8
NOV 19	20	21	22	23
9	1	2	3	30
26	27	28	29	30
M	T	W	R	F
3	4	5	6	7
Art/Sci discussion		Team Third critique 1		Team Third critique 2
Team Third due				Clouds Second Report due
10	11	12	13	14
Team Third critique 3		Last Day Show Engineering Center Lobby Refreshments		
17	18	19	20	21
	Clouds Second Reviews Team Third Report due Exit surveys due No final exam			
24	25	26	27	28

SETUP

Owen  
Duncan  
Charles  
Chet

Cleanup  
Chris  
Casey  
Ross  
Noah

Art-Science-Engineering discussion

## Major Art Theories

- Realism
  - Plato: Representations should be truthful. Beauty = truth. Human perceptions are fallible, invisible true world has ideal 'Forms'.
  - Aristotle: Beauty = both appearance (order, harmony, symmetry) and functionality.
- Expressionism (1850's)
  - Art is to embody and stimulate emotion, often through metaphor.
  - Cognitivism: Art can teach. Dewey's 'aesthetic experience' gives meaning and value.
- Formalism (1900's):
  - Only the form is important. Emotion, narrative, functionality are irrelevant.
  - Abstract art context
- Postmodernism (1968)
  - Art and aesthetics cannot be separated from the social, ethical and political world.
  - Pluralism. No theory is absolute; context is essential.

Barrett, Terry. *Why Is That Art?: Aesthetics and Criticism of Contemporary Art*. 2nd ed. Oxford University Press, USA, 2011.

## Hertzberg's Theory of Art

- Art is the embodiment, the instantiation, the execution of a vision.
- Any endeavor can be raised to the level of art: Mathematics, physics, cooking, sports.
- Routine, uncaring work is not art.
- "Aesthetics of XYZ" describes a non-unique scale for evaluation of art. Once a vision or an intent has been defined, an artifact can be compared to it, measured by it.
- An aesthetic can be defined by an individual artist, or collectively by a culture.

1. What is art? How do you know if an image is artistic?
2. What is science? How do you know if an image is scientific?
3. How are art and science similar?
4. How are they different?
5. What is engineering? How does it fit in (art vs science)?
6. What is filmmaking or photography? How does it fit in (art vs science)?

Discussion structure: In your groups, discuss.

Choose a scribe.

For each question, list answers (on paper, to hand in)

A) you agree on,

B) you disagree on

Then we will compare between groups.

1. What is art? How do you know if an image is artistic?
  1. Art is Everything
  2. Subjective projection of reality. Thoughts give substance to ideas
  3. Artifact so that others can connect to it; functionality or an emotion

What is science? How do you know if an image is

1. scientific?
  - a. Anything used to solve a problem or answer a question
  - b. An objective projection of reality; consensus reality
  - c. Using evidence to test theory, how our physical reality works
  - d. Science is repeatable and calibrated.
  - e. Data or evidence
  - f. Image is scientific if it demonstrates the physical world
    - i. Have to demonstrate facts about physical world
  - g. No manipulations are permissible to retain scientific validity

3. How are art and science similar?

4. How are they different?

5. What is engineering? How does it fit in (art vs science)?

Solving problems using science rather than answering questions

Engineering turns science into art; i.e. statics eqns into buildings

Requires aesthetics to be an accepted form of problem solving

Requires design process

6. What is filmmaking or photography (media)? How does it fit in (art vs science)?

a. Visually capturing data around us

b. Doesn't have to be either science or art

c. Can be artistic, doesn't have to be

d. Filmmaking: artistic when it expresses grandeur

1. What is engineering?/ Photo-video How does it fit in (art vs science)?

Got lost. Engrg is application to represent science as art. Maybe.

Both can be used in both art and science, may be exclusionary

Engineering is practice of science for bettering human experience. Film/photo is recording of world around us.

1. What is art? How do you know if an image is

Scientific? needed to create art, but art can lend more 'flavor',  
adds more personality. Personal expression, communication ~~not~~  
needed (what about self-communication?).

1. What is filmmaking or photography? How does it fit in (art vs science)?  
Strikes an emotion  
Requires intent; requires credibility

Starts a discussion of form

a. Agreements: Original, novel is definitely, but not necessarily.

i. Evokes emotion, even non-emotion; visceral but not emotionally freighted

ii. Successful; has a goal, intention

iii. can stimulate any sense, not necessarily

b. Disagreements: Can animals (not humans) create art? Performance art.

c. Children's art?

d. Does price make it art?

e. Does commonness make it not art?

1. What is science? How do you know if an image is scientific?

a. Agreements: Search for truth. Search for understanding.

b. Disagreements: Are facts universal?

2. How are art and science similar?

a. Agreements:

b. Disagreements:

1. How are they different?

1. Agreements:

2. Disagreements:

3. What is engineering? How does it fit in?

a. Agreements:

b. Disagreements:

2. What is engineering? How does it fit in?

1. Agreements:

2. Disagreements:

My definitions:

- Science is a consensus on how reality/the universe works, based on evidence.
- Art is the execution/instantiation of a vision.
- Engineering is the use of science in design. It can be raised to an art.

## Hertzberg's Theory of Art

- Art is the embodiment, the instantiation, the execution of a vision.
- Any endeavor can be raised to the level of art: Mathematics, physics, cooking, sports.
- "Aesthetics of XYZ" describes a non-unique scale for evaluation of art.
  - Branch of philosophy. Aesthetics and ethics deal with moral issues of ontology (nature of things), epistemology (nature of knowledge), etc.
  - Study of 'what is beautiful' in various contexts
  - Synonym: philosophy of art or art theory. "What is art? What is good art? What good is art?"

Barrett, Terry. *Why Is That Art?: Aesthetics and Criticism of Contemporary Art*. 2nd ed. Oxford University Press, USA, 2011.