02 Definition of Aesthetics

Tuesday, January 12, 2016   8:17 PM

Today: Admin stuff, Aesthetics definition, start tour

Workshops and tours

ITLL tours:

you may take an orientation tour Monday - Friday at 5:15pm or Sunday at 1:15pm, meeting in the ITL lobby.Don't forget to bring your BuffCard.

From <http://itll.colorado.edu/about_us/building_tours/access_orientation_tour/>

Idea Forge Tours

Stop in for a tour of the Idea Forge on Tuesday or Wednesday at 5pm. Meet at the student reception desk near the east entrance on the bottom floor.

From <http://www.colorado.edu/ideaforge/facilities/tours>

Arduino

Arduino: Dan Godrick in ITLL, does workshops
Learn the basics of the Arduino UNO microcontroller board and development environment. The fundamentals of Arduino Input and Output are discussed through connection to sensors and lights. NOTE: this workshop is the same material that is covered in the First-Year projects classes. **$5 workshop fee.**
January 25 5:15 PM to 7:15 PM
WHERE: Broida Lab Plaza (ITLL 2B10)
MAX ENROLLMENT = 15
CONTACT: Dan Godrick, 303-492-4055

From <http://itll.colorado.edu/courses_workshops/skill-building_workshops/#Electronics>

Raspberry Pi

01/28/2016
(Thu. 4:00pm - 6:00pm)

Program microcontroller in Python instead of Arduino language

Getting Started with the Raspberry Pi
This workshop is designed to guide students through the process of setting up the Raspberry Pi. It includes connecting the Pi to power, creating a viewing source, booting and loading Raspbian and basic programming of GPIO pins. The workshop will also discuss the next steps in making the Raspberry Pi a useful development board for any project. The required payment of $5 is due 24 hours before the workshop and can be brought to Pat Maguire in the Idea Forge electronics lab.

Welding

01/14/2016
(Thu. 8:00am - 10:00am) , also Jan 21,22,26, at 8 or 9 am
Welding workshops are available to engineering students who want to fabricate their class-related projects using MIG or TIG welding. In each, you'll learn shop safety and etiquette, machine set-up, materials preparation, butt/lap/T welds, and clean-up procedures. MIG welding workshops are two hours long and run $75. TIG welding workshops are six hours long (divided into three, 2-hour, 1-on-1 sessions) and cost $200. Students need to complete a MIG workshop before they can take a TIG workshop.
Engineering students who complete at least a MIG workshop will have access to the welding shop for class-project use throughout the remainder of their academic career at CU Boulder.

From <http://www.colorado.edu/ideaforge/facilities/welding>

Drafting CAD

Solidworks: http://itll.colorado.edu/courses_workshops/skill-building_workshops/

ITLL Manufacturing Center Safety workshop:

Completion of this one-hour workshop is required prior to use of the Manufacturing Center. Topics include a shop orientation, review of available resources, and safety guidelines. http://itll.colorado.edu/courses_workshops/skill-building_workshops/

Soldering;

Both ITLL and Idea Forge offerings

Sewing

http://ideaforgemakerspace.com/sign-up-for-events/

Woodworking

And others: http://www.colorado.edu/ideaforge/workshops
3D printing, Laser cutting; ITLL only

History of Aesthetics2

History of Aesthetics

- Science once was Art
  - All human endeavors were 'arts'
- Early university structure: liberal arts
  - Grammar, rhetoric, logic, arithmetic, geometry, music, and astronomy
- 18th Century: Fine Arts (and art criticism) were invented
  - painting, sculpture, architecture, music and poetry
  - Other endeavors (Science, Technology, Engineering, Math) were excluded from 'art'
  - Some 'arts' were demoted to 'crafts'

Since Then

Arts

- Photography (1839) freed art for Expressionism
- Emotion became prized
- 'Art' is now mostly 'Fine Art', created for aesthetic purposes;

Science/ STEM

- Objectivity is prized
- Emotions are dangerous, may bias, invalidate, work

Definitions of Aesthetics

- Study of beauty
- Psychological measure of affect

"Oh yuck! That's awful! I hate it!"

Oh wow! That's wonderful! I love it!"

Palmer, Stephen E, Karen B Schloss, and Jonathan Sammartino. "Visual Aesthetics and Human Preference." *Annual Review of Psychology* 64 (January 3, 2013): 77–107. doi:10.1146/annurev-psych-120710-100504.

- Branch of philosophy. Aesthetics and ethics deal with moral issues of ontology (nature of things), epistomology (nature of knowledge), etc.
- Metric for art: is it art? Is it good art?
- Synonym: philosophy of art or art theory. "What is art? What good is art? What is the purpose and nature of art?"

Major Art Theories
What is art, what good is art = art theory

- 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.

Aesthetics Tour

Tim Burton, filmmaker. Macabre, spidery, not really scary, humorous

https://www.google.com/search?q=tim+burton+filmography&ie=utf-8&oe=utf-8
#q=beetlejuice&stick=H4sIAAAAAAAAONgFuLQz9U3MC9KMVfiBLEMCyuSzbUkspOt9AtS8wtyUoFUUXF-
nlVufIlmavEjRn9ugZc_7glLuU1ac_IaowMXTqVCKlxsrnklmSWVQlJcPFJwezQYpLi44DweAEh-
OjGDAAAA&tbs=kac:1,kac_so:1

50's cars

Novelty architecture/ Roadside Vernacular Architecture

Any art form has a variety of aesthetics: Dance

Dance Vines

,

Swing Dance

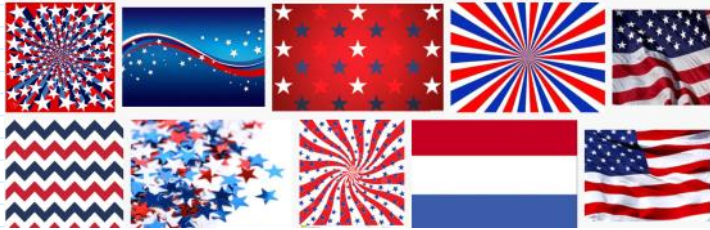## Ron Howard/ 1950's Greaser culture (all students had seen this)

Muscle cars

I am not a fan of the following four aesthetics, but I recognize their validity

Religion, angels

Red White Blue,

American eagles

https://www.google.com/search?q=Americana+eagles+colonial+furniture&source=lnms&tbm=isch&sa=X&ved=_
0ahUKEwijhbrR5ZrKAhVQ2mMKHZTNCQ4Q_AUICCgC&biw=1218&bih=596Americana :

Colonial furniture

https://www.google.com/search?q=Americana+eagles+colonial+furniture&source=lnms&tbm=isch&sa=X&ved=_
0ahUKEwijhbrR5ZrKAhVQ2mMKHZTNCQ4Q_AUICCgC&biw=1218&bih=596#tbm=isch&q=colonial+furnitureSports

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