The Presentations, Lectures, and Classes

of Jim Plaxco

www.artsnova.com





Presentations, Lectures, and Classes Summary

Category	Presentation Title
Astronomical Art	Art of Astronomy
Astronomical Art	Astronomical Image Processing with NASA and your PC
Astronomical Art	Hubble's Universe
Astronomical Art	Imaging Mars
Computer Art	Algorithmic Art: Where Art, Computers, and Math Collide
Computer Art	Computer Art, Digital Art, New Media Art
Computer Art	Processing for Artists and Photographers
Digital Art	The Agony and Ecstasy of Being A Digital Artist
Digital Art	Live Art
Space Art	The National Space Society Space Settlement Art Contest
Space Art	Art and the Exploration of Space
Web Development	Building an Online Presence: The Internet for Artists and Photographers
Web Development	Search Engine Optimization for Artists and Photographers Class
Web Development	Social Media for Artists and Photographers

Past Presentation Venues Include...

Museums

- Adler Planetarium, Chicago IL
- · Cernan Space Center, Triton College, River Grove IL
- Museum of Science and Industry, Chicago IL

Schools

- Da Vinci Academy, Elgin IL
- Eisenhower Junior High School, Hoffman Estates IL
- · Harper College, Palatine IL
- Kennedy High School, Chicago IL
- Prairie Ridge High School, Crystal Lake IL

Libraries

- •Helen M. Plum Memorial Library, Lombard IL
- •Hinsdale Public Library, Hinsdale, IL
- •Morton Grove Public Library, Morton Grove, IL
- •Niles Public Library, Niles IL
- •Schaumburg Township District Library, Schaumburg IL

Conventions

- Capricon Science Fiction Convention
- •International Space Development Conference
- •Midwest Space Development Conference
- •Worldcon World Science Fiction Convention
- Windycon Science Fiction Convention

The Art of **Astronomy** Jim Plaxco, Artsnova Jim Plaxco, www.artsnova.com .

The Art of Astronomy

The Art of Astronomy covers the history and evolution of astronomical art and explores the differences between astronomical art, space art, and science fiction art. Learn how technological revolutions influenced artist's depictions of the heavenly bodies.

Astronomical artists discussed include Etienne Trouvelot, Lucien Rudaux, Charles Bittinger, Chesley Bonestell, and David Hardy. Also covered is the NASA Art Program.

The presentation concludes with a discussion of how anyone with a computer and internet access can download astronomical and planetary data from the various NASA space missions and create their own astronomical art.



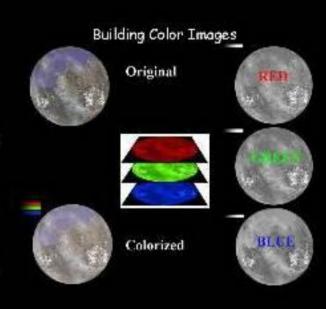


No Camera, No Telescope? No Problem! Making Astronomical Art with your PC



Astronomical Image Processing with NASA and your PC

Astronomical Image Processing with NASA and your PC is about how anyone with a computer and internet access can create astronomical art using data from various NASA robotic missions. The tutorial uses as its primary planetary data system (PDS) example data files generated by the Mars Global Surveyor mission to Mars. The primary flexible image transport system (FITS) example data is taken from the Hubble Space Telescope data archives. The presentation strives to be as platform and software neutral as possible so as to maximize value to the largest number of participants. People attending the presentation are free to follow along on their own computers.

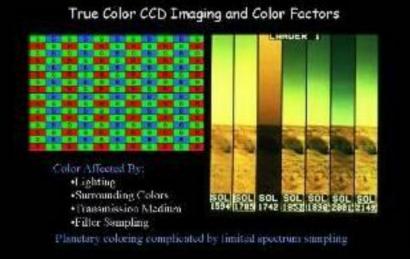


Factors to Consider: Image Geometry

A = Phase Angle
B = Emission Angle
0° = nudir view
90° = tangential view
C = Incidence Angle

(" - subsolar point

90 * tangential view



Hubble's Universe

By Jim Plaxco

Hubble's Universe

Hubble's Universe is a presentation about the Hubble Space Telescope, astronomical imaging, and some of the discoveries made possible by the Hubble Space Telescope. Included is an overview of Hubble's data collection instruments/cameras and an overview of the electromagnetic spectrum. This is followed by a discussion of the methods by which the data from the various instruments is converted into the beautiful astronomical images that have changed our view of the universe.

A broad array of representative images are used in the presentation, including planets of the solar system, nebula, black holes, and galaxies. The images are used as illustrations to explain several of the astronomical and cosmological discoveries made from Hubble Space Telescope data.



Hubble + Spitzer + GALEX = Synergy



- Different wavelengths of "light" reveal different secrets
- · Pictured: M81

Imaging Mars: Marvels and Mysteries

Jim Plaxco
www.marsartgallery.com
www.chicagospace.org
www.astrodigital.org
NASA JPL SSA
VP, CSSS

Imaging Mars

Imaging Mars is a presentation created primarily for astronomy clubs and space exploration related conventions. This lecture deals with planetary image processing and how the raw data returned by the various robotic missions are digitally processed. Relevant elements of art theory are incorporated with respect to creating the most attractive image possible given the data constraints placed on the "artist".

The Color/Albedo Dichotomy

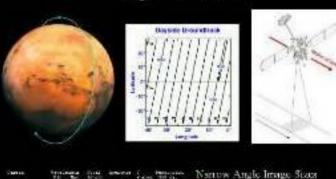
More Albedo-U.25 Year Albedo 0.12



Martian Color: What is True?

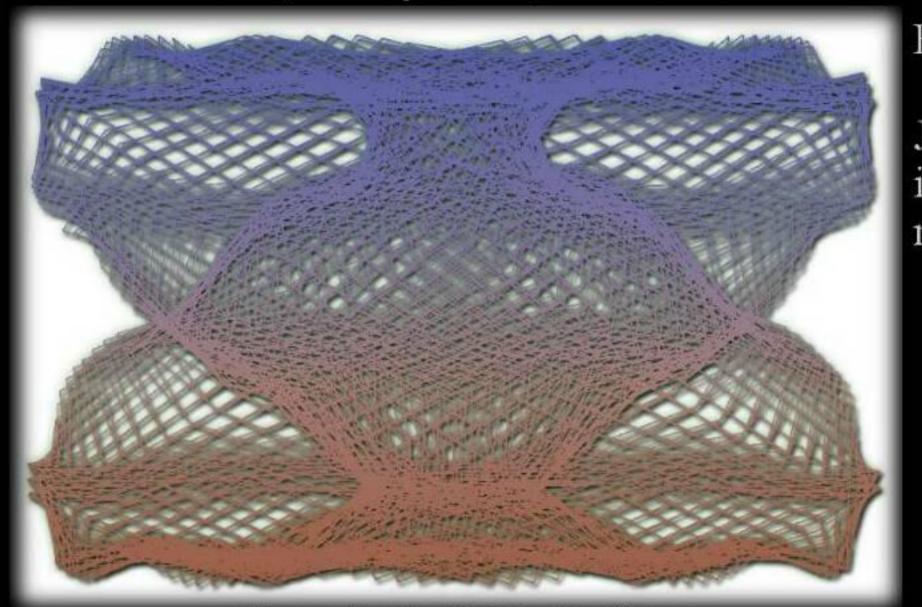


Image Construction



*28 x 500 ic.u or 11 uspixel

Algorithmic Art: Where Art, Computers, and Math Collide



Bym

Connecting the Dots by Jim Plaxco

Algorithmic Art: Where Art, Computers, and Math Collide

Algorithmic Art: Where Art, Computers, and Math Collide deals with the history of that form of computer art known as algorithmic art. The compositions seen in algorithmic art are compared with conceptual art, minimalism, abstract expressionism, and geometric abstractionism. Examples of important works and computer artists illustrate how algorithmic art has evolved over time.



Aspects of the Algorithms

- Recursion
- Chance
 - Randomization
 - Perlin Noise
- Artificial Life (A-Life)
 - Cellular Automata (CA)
- Fractals
 - Mandelbrot Set
 - Julia Set
- Tessellation
- Chaos Theory
 - Attractors
- Flocking Behaviors
- Large Landscope: Ochre and Block Charles & Colette Bangert, 1970

Benoit Mandelbrot's Fractal Geometry

"Clouds are not spheres, mountains are not cones, coastlines are not circles, and bark is not smooth, nor does lightning travel in a straight line."

Benoît Mandelbrot, The Fractal Geometry of Nature, 1983.



Artist's discussed include Jean-Pierre Hébert, Ben Laposky, Frieder Nake, Georg Nees, and Manfred Mohr. Also discussed are some of the concepts and the different areas of computer art including chaos, fractals, and generative art. The presentation concludes with a brief overview of several free computer graphics software products that can be used for the creation of algorithmic art.



Computer Art, Digital Art, New Media Art

The exploding popularity of art created through the use of digital technologies and the continual invention of new means of creative usees of computing technology has produced an ever changing landscape of creative possibilities and, by necessity, terminology. The presentation Computer Art / Digital Art / New Media Art provides an overview of the dynamic world of new media art, also known variously as digital art, computer art, etc.

Is It Real or Is It Computer?



One of these paintings was created by renouned artist Piet Mondrian. The other was created by an algorithm employing pseudorandom numbers. Which do you prefer?

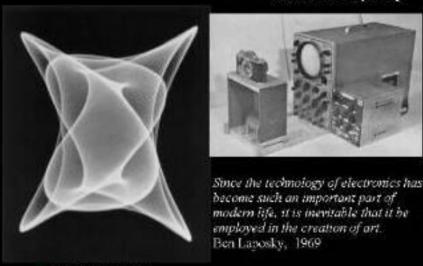
Computer Composition with Lines, 1965 by A. Michael No.l vs. Composition with Lines by Piet Mondrian, 1917

Pioneers: Jean-Pierre Hébert



Un Cercle Trop Brod: Derivee Seconde - Jean-Pierre Hébert , 1995

More Ben Laposky





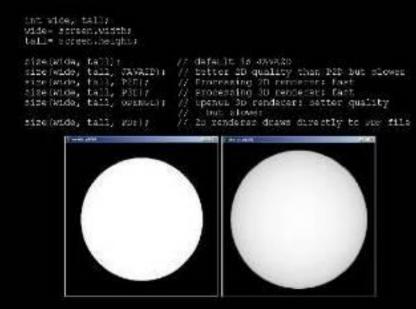
Processing for Artists and Photographers

Processing for Artists and Photographers is a tutorial oriented presentation to introduce Processing to artists, photographers, and anyone else interested in creating their own computer graphics programs.

Processing is an open source digital creativity programming platform especially designed for use by non-programmers. Covered are the basic language concepts, the creative use of randomness, recursion techniques, art from sound, and more. Participants should feel free to bring their computers with Processing installed (processing.org) so that they can create their own art programs in real time.

Processing Output Modes

The Components of a Processing Sketch





- Variables
 - Used to store data values Variables have scope
- · Functions()
 - Blocks of code to be executed Functions can call other functions axa methods
- Classes
 - A group of related variables and functions
- Objects
 - An instance of a class
- Syntax

Rules governing names, statements, functions, classes, etc.

Agony and Ecstasy:

Being A Digital Artist Adigital presentation by Jim Plaxco

The Agony and Ecstasy of Being A Digital Artist

The Agony and Ecstasy of Being A
Digital Artist is a wide ranging
discussion of the various
challenges that confront the digital
artist. From the differences
between digital and traditional
painting to the rewards of operating
in a new, rapidly evolving medium,
this lecture is a first person look at
the evolution of the digital medium
and how one artist copes with its
unique challenges.

Topics covered include computer graphics software, hardware, printing advances (printers, papers, and inks), digital photography, styles of digital art, workflow, and the debate on traditional vs digital art. A problem has been detected and Windows has been shut down to prevent damage to your computer.

DRIVER_INGL_HOT_LESS_OR_COURL

If this is the first time you've seen this stop error screen, restart your computer, if this screen appears again, follow these steps:

Check to make sure any new hardware an software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any windows updates you might need.

If problems continue, disable or remove any newly installed hardware or software. Disable Blos memory options such as eaching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press r8 to select advances startup Options, and then select safe Mode.

Technical information:

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*** gy3.sys - Address #8605x800 base at #8605000, catestaep 3dd001ab

Physical memory chap complete. Contact your system administrator or technical support group for further assistance.

Lenna: Image Processing's Goddess!

Beginning dues of physical memory



First, the image contains a nice mixture of detail, flat regions, shading, and texture that do a good job of testing various image processing algorithms. It is a good test image!

Second, the Lena image is a picture of an attractive woman. It is not surprising that the (mostly male) image processing research community gravitated toward an image that they found attractive.

David C. Munson, editor-in-chief, Jan. 1996 IEBB Transactions on Image Processing

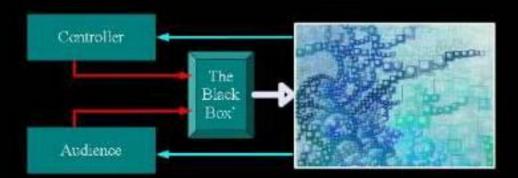


Live Art

Live Art combines art created in real time through audience participation with a presentation about the mechanics of how it is done. This program begins with an overview of the concepts and tools used to create the Live Art computer graphics programs. The presentation is followed by a live demonstration during which the audience creates art in real time via their vocalizations in conjunction with various black box manipulations performed by a volunteer from the audience.

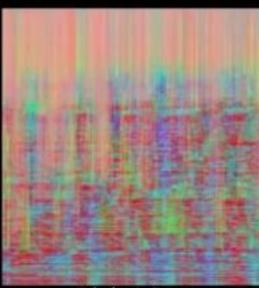
The Live Art Schematic

- Data input comes from the Audience
- The master controller is a person
- The Black Box paints using the defined inputs
- . The painting is complete when the switch is thrown



Live Art's Black Box Components

- Audio Inputs:
 - · Live Microphone Feed
 - · Audio File
- Tactile Inputs:
 - · Mouse Location
 - · Mouse Movement
 - Mouse Clicks
 - · Arduino Switches
 - Arduno Potentiometers
- · Visual Imputs:
 - Live Video Feed
 - · Video File
- · The Algorithm
 - · Reads inputs
 - Map Inputs to Output
- Visual Output



Telephonic Experiment

The National Space Society Space Settlement Art Contest and 2008 Calendar

SPACE SETTLEMENT 2008

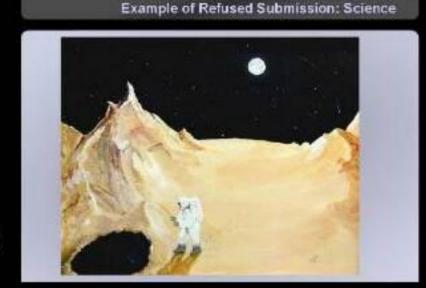


National Space Society Space Settlement Art Contest

The National Space Society Space Settlement Art
Contest is a presentation about my experiences
organizing and managing an art contest whose goals
were:

- · to encourage artists to create space art
- to create a space settlement calendar featuring the contest's best art to publicize space settlement
- to create a unique collection of space art for the National Space Society's web site and magazine that would promote space settlement
- to broaden public exposure to the idea of space settlement

The lecture includes a full review of the 12 winning entries from the art contest.







Art and the Exploration of Space

Jim Plaxco, Artsnova

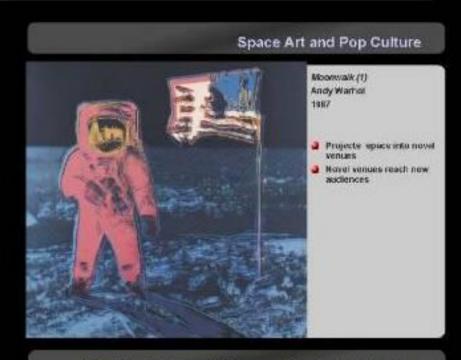
Artwork by Glen Orbik

Art and the Exploration of Space

Art and the Exploration of Space looks at the development of space art and how that art evolved over time to reflect the realities of aerospace engineering. Also discussed is the influence of science fiction in the portrayal of space exploration. Particular attention is paid to the means by which art is used to portray space exploration from exploratory, educational, and inspirational perspectives.

An overview of the NASA Art Program is provided and NASA's recognition of the emotional impact of art vs photography is discussed. Space artists whose work is discussed include Chesley Bonestell, Paul Calle, Robert McCall, Henry Casselli, and astronaut-artist Alan Bean.

The presentation concludes with an examination of why artists should create space art and what opportunities exist for the space artist.



What Words Cannot Express: Portraying Heroism



Building An Online Presence:

The Internet for Artists and Photographers



Jim Plaxco, www.artsnova.com

Building An Online Presence: The Internet for Artists and Photographers

Building an Online Presence: The Internet for Artists and Photographers covers a broad array of issues facing the artist or photographer who is looking to either create their initial presence on the Internet or to improve their existing presence. Some of the topics covered are:

- · planning your online strategy
- · identifying a web site solution
- · blogging for your art
- · using social media to promote yourself
- · effective Search Engine Optimization

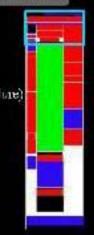
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- * Too many advertisements
- · Bad legibility (font, robots, contrast)
- · Had or hard to understand navigation
- Bad organization (information architecture)
- · Playing music
- Bad/broken coding.
- · Bad visual design/layour.
- · Heavy pages slow to load
- · Requires registration



Search Engine Optimization Artists and Photographers ANCHOR TEXT KEYWORDS SEM PAGERANK BACKLINKS E SERP F NOFOLLOW T META TAG KEYWORD DENSITY F

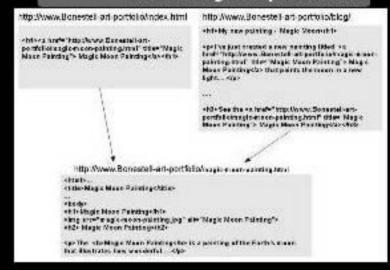
Search Engine Optimization for Artists and Photographers

For artists and photographers, a principal concern is the ability of people to find their web site. With so much of the web's traffic being driven by search engine results, search engine optimization is important to a site's findability.

As an artist and photographer, my journey along this path has been greatly aided by my background in IT (information technology) and web design and development. My goal is to help other artists and photographers improve the quality and findability of their web sites by sharing what I have learned over the years.

Search Engine Optimization for Artists and Photographers will help artists and photographers understand exactly what SEO (search engine optimization) is, what it's components are, and how these components work together to improve a site's standing in the search engines.

Search Engine Optimization



SEO Off Site Components

SOCIAL NETWORKS

- +1 on Google+ post Facebook comments
- Facebook likes
- Pinterest pans
- Tweets

OTHER SITES

- Total Backlinks (impacts Page Rank)
- Total Backlinks from some country (impacts Page Rank)
- Backlink currity
 (page rank of source links)
- Contextual (inks)
 (links embedded in content)
- Backlink archortest.
- Linking domain relevancy
- Google Places



and

Smile.

flickr

Everyone gets a free terabyte.

Sign up for Flickr

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Delicious is an easy, free tool to save, organize, and remember the links you find interesting on the web.

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Social Media for Artists and Photographers

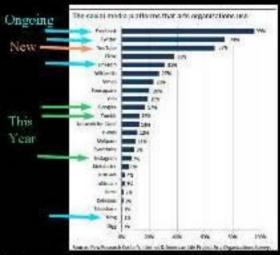
Social Media for Artists and Photographers provides insights, tips, and strategies that artists and photographers can use in creating a social media presence that promotes their craft, their brand, and their business web site.

Topics covered include

- · benefits of using social media marketing
- creating personal profiles on various platforms
- creating business pages on Facebook, Google+, and Linkedin
- · using social media as a component of SEO
- social media content strategy
- · identifying which platforms are right for you

Included in the presentation will be the actual creation of personal profiles on several of the more popular social media platforms.

Where Are Arts Organizations?



http://www.artsnova.com/review-Arts-Organizations.html

Social Media and Videos



- YouTube, Vimeo leading platforms
- Note cover image consistency
- Publish (embed) video on your web site



Jim Plaxco, Artsnova

- Digital Art Gallery http://www.artsnova.com
- Artsnova Blog http://www.artsnova.com/blog/
- Contact Form: http://www.artsnova.com/blog/contact-jim/