Guided tour of Motoko Museum of Art History 10th Nov, 2018 at 8:00 am PST Tishimura, Japan Agency for Marine-Earth Science and Technology

Hajime Nishimura, Japan Agency for Marine-Earth Science and Technology (JAMSTEC) (Yan Lauria, Abyss Observatory, the Modern Museum and the Education Portal) <u>http://maps.secondlife.com/secondlife/The%20Science%20Circle/200/105/3631</u>



Participants

 $\mathcal{T}\mathcal{D} \rightarrow \mathcal{V}\mathcal{V}$ (AkashaKokuu), Arianne (ArianneJP), Beragon Betts, Dirlandaa (Dirlandaa Pfeffer), Fumon Crystal, Hades Nostram(Alt of @), Jaicya Albright (Jaicya), Kyrela (kyrela), Mike Shaw (Shawza Tunwarm), Newmoon Koray, Scire Gaea, Tagline, Tooyaa (Thuja Hynes), Wisdomseeker (Lissena)

Organizers:

Chantal Jager (Nymf Hathaway), Jawesome (Jes Cobalt)

YouTube: https://youtu.be/QfggVrhBk5w?t=215

All previous Art-talks are freely available here

https://www.sciencecircle.org/event/art-history-tour/

Chat-log, Slides and answer for comments of "Liberal or Conservative in Art? - Art History part.3" on 3rd Nov.

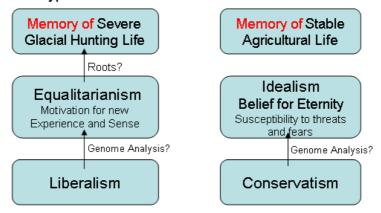
<u>http://chikyu-to-umi.com/abyss/Art/SC20181103ArtHistory3.pdf</u> (in English) <u>http://chikyu-to-umi.com/abyss/Art/SC20181103ArtHistory3(jp).pdf</u> (in Japanese)

Yan: Let's start guided tour of Motoko Museum of Art History.

At first, you don't need any knowledge of background of Art works. Any religion story and legend story, but feel how Art works stimulate your brain.

Guided Tour

- You don't need any knowledge of Art. Just enjoy how Art works stimulate your brain.
- Hypothesis:



- Yan: In this museum, Art works are arranged their publish year in forward and backward. When we go forward, time is descending or go to future. When we go backward, time is ascending of go to future.
- Yan: And Transverse ward, motoko arranged Left Eye's Art vs. Right Eye's Art. In my last presentation, I proposed these hypothesis. Left eye is "Memory of Hunting Life in severe and unstable Glacial period" and Right eye is "Memory of Agricultural Life in stable and warm Holocene".
- Yan: Scientists said roots of Equalitarianism was derived from Glacial hunting life. Because, at that time, human became able to hunt big animals in collaboration with group members and share meet among members equally. Only such a group could survive in severe environment.
- Yan: Scientists also found genetic feature of Liberalism is "motivation for new experiences and sense" from Genome analysis for Liberal and Conservatives,
- Yan: In the other hand, Scientists found genetic feature if conservatism is "Susceptibility to threats and fears". I think it derived from "Belief of Eternity" and it is feature of Agricultural Life in Stable and warm climate in several thousand years.
- [07:12] Tagline: In a society of hunters and gatherers, one depends more immediately and directly on the help, cooperation, support and acceptance of others, even "competitors"
 more of a spirit of socialism emerges I would think.

In the Agrarian period (農耕時代), territoriality, property ownership made for more of a sense of isolation between "competitors". I would think this promoted the selfish side of human nature, feeling others wanted to take what piece of nature you had dominated.

Art became probably more monumental as in great halls or buildings to show off wealth.

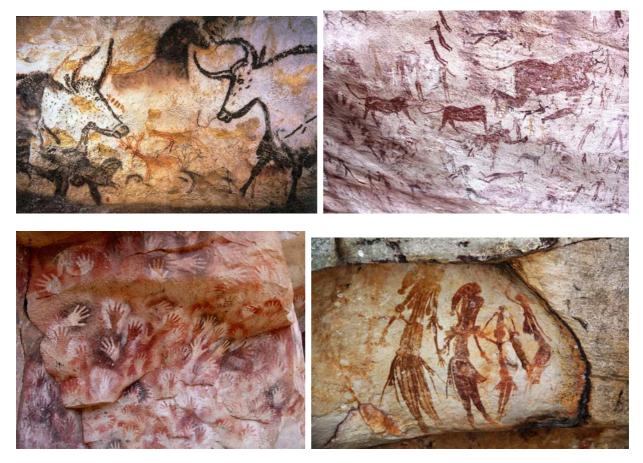
(Yan's comment: Christopher Boem said hunting life in severe and unstable climate was started at least 45,000 years ago and ended 10,000 years ago, so enough long for installing in human's brain.

In the other hand, Agricultural life was started at less than 10,000 years, so I don't know it is enough time for installing in human brain. I think It is possible that Society's discipline including religion helped taming human nature. I think selfishness is more basic nature of human 150,000 years ago.

- [07:13] Tagline: The Holocene (完新世) art was probably magical or part of magical thinking or magic rituals (魔法の儀式) to the creators in my thinking.
- [07:13] Fumon: nods. Yan explains it now
- [07:14] Arianne: It remind me Red vs. Blue :XD
- [07:14] Tagline: Holocene art was based on HOPE and agrarian art based on FEAR in a sense.
- (Yan's comment: Holocene started 10,000 years ago and climate became warm and stable after Last Glacial Maximum, so I think Agriculture also started almost same age. At that time, continental ice sheet still remained widely and supplied melting water and sea level was rising until 6000 years ago. So, really stable environment and fixing shore line was started 6000 years ago.

I think FEAR is basic emotion of human since 150,000 years ago. And I don't know origin of HOPE. Both FEAR and HOPE are relating with anticipation ability of human. I think hunting people in glacial period had confidence for adaptation to change under lot of experience, but since Holocene started, people gradually lost such a confidence.)

- [07:11] Beragon: Glacial hunting is cave paintings. No? What art did farmers make? Pottery and baskets? Jewelery?
- [07:14] Beragon: I am skeptical that cave arts were purely magical/spiritual. I think a lot of it was just fun
- (Yan's comment: Good question. Cave paintings in glacial period shows various images.
 Photorealistic animals, over view of hunting people and animals, hand shapes, dancing women. I can't judge them Left or Right.)



- [07:15] Tagline: I expect those with innate artistic ability found it fun.
- [07:15] Tagline: It might have helped them get mates even.
- [07:15] Chantal: I saw a documentary about Holocene art ... for example, they drew on boulders along their walking routes in Switzerland
- [07:15] Tagline: They were the ROCK STARS of their day, drawing on rocky cave walls
- [07:15] Beragon: I think much Holocene art was done by kids or women. The cave accesses are challenging for full grown men
- [07:16] Chantal: :)))

For example,



- Yan: These are nude sculptures and a painting. Right is famous Venus of Miro. She looks confident and looks not shame at all.
- Yan: Middle is replica of ancient Greek sculpture in ancient Rome. She hides some part of her body and looks shame a little and maybe young men feel some special effect from this.
- Yan: Left is Delacroix's nude. Very realistic and maybe young men don't feel special effect so much. Comparing with this realistic nude, Greek nude is idealized very much.
- [07:18] Beragon: not as idealized as many SL avatar bodies ha ha
- [07:19] Chantal: More attractive, though \bigcirc
- [07:19] Beragon: :p
- Yan: People believe Ancient Greek citizen thought human's body is perfect and they didn't feel shame in public in nude. But please image these statues were painted at that time, and she had hands and hides some part of her body, impression becomes different. It is possible that she was not goddess but pinup girl for citizen. But Greek citizen displayed such a nude statue in the middle of public square, Then, they became Art.
- Yan: So, you don't need any knowledge of background of each Art works. Just enjoy how these art works stimulate your brain.

Analogy for Left and Right brain

- Idea of "Left Eye's Art vs. Right Eye's Art" came from • "Language functions concentrate in Left brain and Space recognition functions concentrate in Right brain", and a half side of visual field of both eyes is connected to the opposite hemisphere of the brain.
- Left Visual But "Right brain" vs. Right Visual Field Field "Left brain" is directly relating with my current hypothesis. · Emotional vs. Logical isn't also relating with Left Eve Right Eve my current hypothesis. Space Languag recognition
- Yan: Our idea came from Left brain and right brain. Language functions concentrates in Left brain and Space Recognition function concentrates in right brain. In the other hand, half side of visual field is connected to opposite side of brain. (Please see Red lines and Blue lines)
- Yan: So at first, we thought Right Eye = Left brain is Logical and Left eyes = Right brain is Emotional. But now, I abandoned Emotional vs. Logical.
- [07:24] Arianne: R and L brain function changes in about half of lefty people.

Modified Hypothesis

Left eye (Wadjet)

- Unstable/ Dynamic
- Diversity
- Equalitarianism
- New Experience/Sense (Hindu) Derived from Hunting
- culture in unstable climate

Right eye (Providence)

- Eternal/ Tranguil
- Unity/ Absolute
- Religion/ Legend
- Geometric/Idealize (Catholic, Islamic, Ancient Greek,
- Buddhism)
 - Derived from Agricultural culture in stable climate

Neglect follows:

- Emotional vs. Logical -> Emotion is common for Left and Right, Logical is on the Right
- Dramatic vs. Modest -> Artist's skill and fashion cycle.
- Realistic vs. Idealized -> Brain function. Realistic is Artist's skill. Intentional idealization is relating with Right eye's Art.
- · Stereoscopic vs. Planar -> Artist's skill
- Asymmetry vs. Symmetry -> Artist's skill
- Polytheistic vs. Monotheistic -> Belief of Eternity is relating with Right Eye's Art

Yan: This is current hypothesis. Left eye's Art is Unstable. Dynamic, rich diversity, Equalitarianism,

motivation for new experience derived from hunting life in severe glacial preiod.

Yan: Right eye's Art is Eternal, Tranquil, Unity and Absolute. They have Religion or Legend story

and like Geometric and Idealized. Some one think It is derived from agricultural culture developed in Holocene stable climate.

Yan: I thought Emotion is common for Left and right, Logical is on the Right. Dramatic vs. Modest expression is Artist's skill. Realistic is also Artist's skill and Idealize is Brain's function but intentional idealization is on the Right. Stereoscopic vs. Planar and Asymmetry vs. Symmetry is Artist's skill. Belief of Eternity is on the Right.

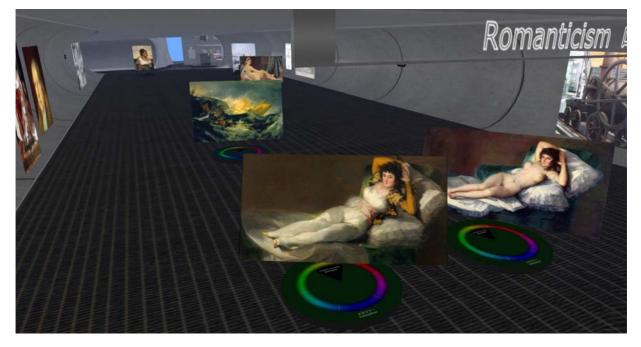
Yan: Then stand up and let's go to guided tour..

- [07:27] Chantal: Please, follow Yan for the tour O
- [07:29] Beragon: Paint me like one of your French girls
- [07:29] Tagline: right Jack Dawson
 - ("Jack Dawson" is fictional character in Cameron's movie "Titanic" played by Leonardo DiCaprio.)

[07:30] Mike: :)

(Difference between Art and Pornography)

Yan: These are Goya's famous "Naked Maja" and "Clothed Maja".



- Yan "Naked Maja" is first painting which is painted pubic hair. Until then, woman's nude isn't painted pubic hair because Goddess doesn't have pubic hair. (Painters of christian world could only draw women's nude as Goddess.).
 - But this painting is not Goddess but human. "Naked Maja" was hidden in private house of prime minister (of Spain). So when this painting was found, Goya was called from religion court and asked who ordered Goya (but Goya never revealed client name).
- Yan: What do you think difference between pornography and Art?
- [07:30] Chantal: Depends on the culture?
- [07:31] Tagline: and the dominant religiosity

[07:31] Chantal: yes

- Yan: When people find nice Art, he/she wants to display in his/her house or public place, but pornography is hidden and enjoyed personally. "Naked Maja" was hidden in prime minister's house and enjoyed only within his friends, so it was origin of pornography but 100 years later, it was displayed at (the Prado) museum, then it became an Art.
- [07:32] Chantal: hehehhehe
- [07:32] Chantal: so typical for societies
- Yan: It is said "Clothed Maja" was painted after "Naked Maja" (for camouflage) commonly. But some one said Goya painted "Clothed Maja" with a clothed model and painted "Naked Maya" without a model later. Please look at "Naked Maya"'s body. Don't you think her breast and west unnatural? (right breast seems to neglect gravity and waist is too pinched)
- [07:35] Beragon: The painting on the right is after a couple glasses of wine
- [07:35] Chantal: :))))
- [07:35] Jaicya: You mean he painted from what he imagined

(William Turner)

Yan: This is Turner's painting. Very dynamic.

- Yan: It is difficult to read near-by chat during guided tour, but please type in near-by chat in any time. I'll read later and reply.
- [07:36] Chantal: No problem, Yan, its great so far 🕐
- [07:36] Fumon: ♥
- [07:36] Fumon: Free chat
- Yan: In this age, industrial revolution was occurred. Until then, Art was for high class people, but Artists painted for citizen gradually.
- [07:37] Beragon: This piece is very kinetic

(Ingres)



Yan: Ingres idealized woman's body very much. He changed e even number of Backbone.

- [07:38] Chantal: Think I appreciate the scenery more then the nude
- [07:38] Mike: (the scripting on the pieces is superb)
- [07:38] Fumon: What is called of "back bone"?
- [07:44] Tagline: per Fumon's request, the term for "backbone" is spine, made of vertebrae (vertebral bones stacked one upon another) or vertebral column running from the pelvis to the base of skull
- [07:45] Fumon: ♥
- [07:45] Fumon: ty Tag
- [07:38] Jaiccya: nice pose

(Orphan at the Cemetery)

- Yan: This is Delacroix's "Orphan at the Cemetery". I like this very much. This is Left, "Liberal Art". At that time, Church taught rich people to accumulate good things to get ticket to heaven. So rich people purchase such a paintings of poor people. (We can see several Liberal Arts in this museum).
- [07:39] Chantal: almost photo realistic

(Black Paintings)



Yan: These are Goya's "Black Paintings". He painted only for himself because he isn't open them in public. Goya experienced severe cruel war, such a experience made him painted these strange paintings. We can't understand what these paintings mean.

- [07:40] Jaicya: beautiful
- [07:40] Chantal: yes \bigcirc
- [07:40] Jaicya: awww
- [07:40] Fumon: go in!
- [07:41] Jaicya: Spooky for Halloween

- [07:41] Jaicya: They are scare
- Yan: Are these dark paintings on the Left because of new experience?, or on the Middle because emotion is common?, or on the Right because of sensitivity for fears?
- [07:42] Beragon: Evokes Picasso's "Guernica" a little
- [07:42] Chantal: ♥
- [07:42] Chantal: Dark, the paintings
- [07:43] Arianne: https://en.wikipedia.org/wiki/Black_Paintings
- [07:43] Mike: right, with lower brainstem (下位脳幹) too
- [07:43] Beragon: right
- [07:44] Arianne: Right

Yan: There is no Left. Interesting.

(Goddess of Liberty)



Yan: Delacroix's "Liberty Leading the People". This is just "Liberal Art".

[07:45] Jaicya: French flag

(Desperate man)

Yan: This is self portrait of Courvet. Who do you think this man looks like?

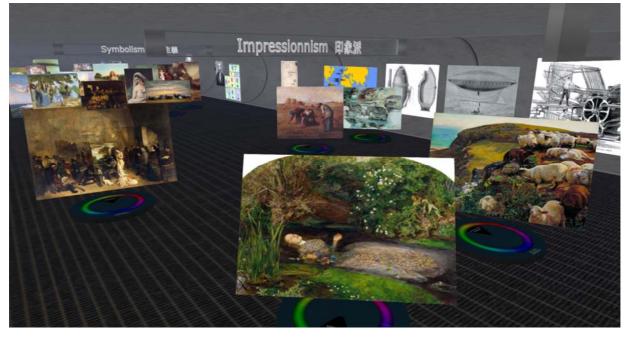
[07:46] Dirlandaa: Jack Sparrow

Yan: Yes, Johnny Depp.

- [07:46] Chantal: yes \bigcirc
- [07:46] Mike: Agrreed!
- [07:46] Jaicya: lol
- [07:46] Dirlandaa: yeah
- Yan: I don't know Desparate is emotion so Middle? or painter intended to give unusual sense to people so Left? or some people feel Fear so Right is possible.
- [07:46] Mike: I like how the eyes follow you as you move!

- [07:46] Chantal: 🕑
- [07:47] Tagline: The artist wanted to scare little children "not to do what I have done!"
- [07:47] Beragon: Capt Jack Sparrow wakes up late for football practice
- [07:47] Jaicya: lol
- Yan: From this age, 2nd explosion of Art was occurred. 1st explosion was in Renaissance. Many painters .thanks to the industrial revolution, citizens began enjoying Art. then,.

(Ophelia)



Yan: Millais's "Ophelia" shows death of legend story. Why painters paint death? There are several paintings of Death in this museum.

- [07:47] Chantal: Its beautiful
- [07:47] Arianne: The Scream by Edvard Munch is similar one.
- [07:48] Tagline: poor Ophelia
- [07:48] Chantal: Bright colors
- [07:49] Beragon: Yes the colors are remarkable in both of them
- [07:49] Fumon: That painting was similar to Leonardo DiCaprio a bit :)
- [07:49] Chantal: Moving 🕐
- [07:49] Jaicya: relaxing
- [07:49] Tagline: Selbstmord (自殺) and death depicted as beautiful, even floral

(Gleaners)



Yan: This is also Liberal Art. Liberal Art is only my naming. not common term. Don't misunderstand.

- [07:50] Chantal: Excuse me, Akasha
- [07:50] Beragon: I've seen this in real life
- [07:50] Akasha: ^^
- [07:50] Chantal: Moving

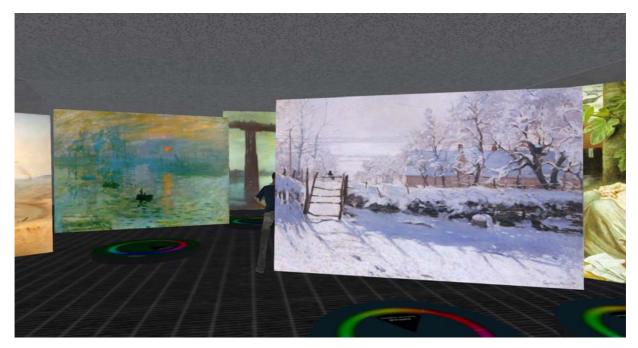


Yan: Cabanel's "Birth of Venus". Very idealized, so should be on the Right. Very dynamic pose but Artist skill for dramatic expression.

- [07:51] Chantal: Sooo many, Yan
- [07:51] Beragon: Venus is such a drama queen

Yan: "The third class carriage" is Liberal Art.

(Magpie)



Yan: Impressionism. This painting has no background story. not any religious or legend story. There is one bird on a ladder. This is painters subjective view. not objective because painter isn't photograph. This is subjective feeling of painter..

- [07:52] Jaicya: the magpie
- [07:52] Arianne: gate
- [07:52] Beragon: Are any of the paintings available for purchase?

(Yan's comment: Beragon, do you mean "take copy"? I don't set "take copy" yet due to permission

problem because this museum crosses many parcels.

You can take copy at The Modern Museum

(http://maps.secondlife.com/secondlife/The%20Science%20Circle/178/63/2501).

Almost images can be gotten from WikiMedia or WikiArt or FreeArt.

https://commons.wikimedia.org/wiki/Main_Page

https://www.wikiart.org/

https://www.freeart.com/)

[07:53] Chantal: Moving \heartsuit

(Monet's "Impression, soleil levant")

Yan: Very subjective landscape by Monet..

(Berne-Jones's four paintings)



Yan: Even in this age, there are also.Classical paintings of Legend world. I like both classical art and dramatic art.

- [07:54] Fumon: This is the huge museum and interesting
- Yan: I don't move these position yet. These are original position.of motoko Moonwall. From now, I will change these position

(The Scream)



Yan: This is famous Munch's "Scream". How do you think these art? Black paintings and Johnny Depp's self portrait. Please type Left or Right or Middle.

[07:57] Arianne: I bet Right

Yan: Usually, Right eyes Art shows very calm, feel eternity and people are happy. At the Black Paintings, people type Right. Very interesting.

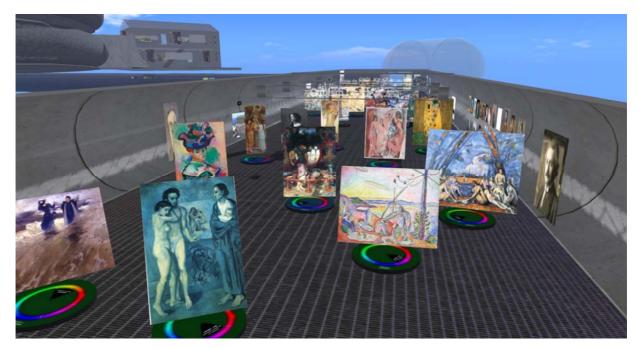
- [07:57] Tooyaa: hi!
- [07:57] Beragon: ah! gaudi! la sagrada familia. i have been there in real life
- [07:58] Fumon: Recently Sagrada Familia construction confirmation was allowed https://edition.cnn.com/travel/article/sagrada-familia-barcelona-church/index.html
- [07:58] Beragon: I love Gaudi
- [07:58] Chantal: Moving \bigcirc
- [07:58] Beragon: Thank you Fumon

(Hodler)



Yan: I hard from Chantal, these is statue of Hodler's "Day" at City Hall of Nederlands.. I want to see statue version. We feel tranquil, eternity, harmony, so this is quite different from Monch's "Scream".

[07:59] Chantal: I promised Yan I will take some photos of the sculpture series near me **(La Vie)**



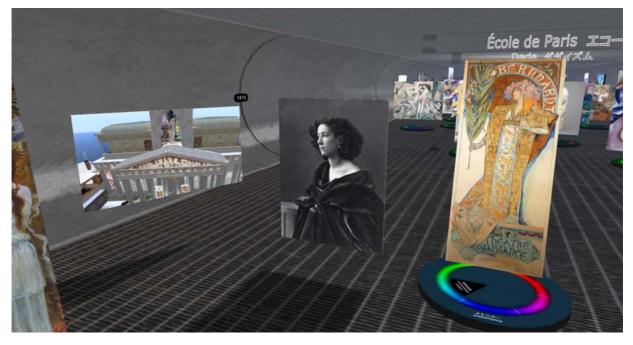
- Yan: This is Picasso's painting, "Lavie". "Lavie" means "Life". This painting is very complicate. (Young) man was Picasso's friend and (young) woman was friend's lover. (Young) man shot his lover and suicide himself by gun. His lover survived. So Picasso became sad very much for his friend's suicide. That was motivation of this painting. Right side is mother and child. So very complicate paintings. So please check. There are many story.
- [08:00] Beragon: blue period?
- [08:01] Chantal: Character of the painter?

(Picasso's lovers)



Yan: These are Picasso's nine lovers and wives. We can compare their photographs and portraits. Picasso abstracted models but all portraits have personality. (We can distinguish all of them). Very interesting.

(Mucha)



Yan: This is Sarah Bernhardt. Model of Alphonse Mucha. Sarah is so very great wonderful super woman. She was also artist (herself), a patron of artist, and famous (first) international actress and and herself Artist.

Yan: This is a teleporter to Mucha Museum. Very comprehensive.

- [08:02] Fumon: A Japanese SL user built the Mucha musum at the mainland
- [08:03] Chantal: Landmark for me, Fumon?
- [08:03] Fumon: wait:)
- [08:03] Arianne: サラ・ベルナール
- [08:03] Chantal: Have Mucha on my office walls
- [08:04] Fumon: Mucha museum > <u>https://maps.secondlife.com/secondlife/Svan/133/217/77</u>
- [08:04] Chantal: Thank you 沙
- [08:04] Fumon: •
- Yan: And this is teleporter to Mucha Museum. Very good art museum. Overall Mucha collection in real size. Creator is Japanese.
- [08:05] Chantal: Museum to wander through for hours
- [08:05] Arianne: <u>http://en.wikipedia.org/wiki/Sarah_Bernarbt</u>
- [08:05] Chantal: moving
- Yan: After Picasso, gradually there are many abstract arts. And Artists realized color is very effective to stimulate human brain.

(Fountain)



Yan: This is famous "Fountain", first Art using industrial product. From this age, everything can be Art when title, author's name and published year are attached. Even garbage can be Art. Very interesting. Maybe people enjoy unusual things.

- [08:06] Beragon: ah! the urinal
- [08:06] Wisdom: lol
- [08:07] Beragon: I saw this IRL at the Menil collection in Houston
- [08:07] Beragon: Duchamp exhibition

(Modigliani)

- Yan: This is Modigliani's model, Jeanne. There is very sad story. She was also wife and became his wife. When Modigliani died, she suicide She remained a child (and 9 month of pregnancy).
- [08:08] Chantal: moving

(BauHaus) 1:07:55

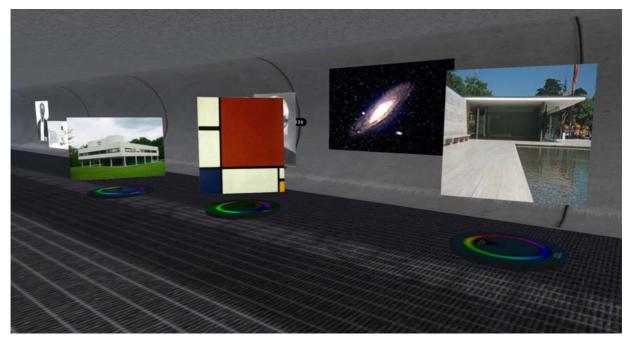


Yan: Do you know Bauhaus?

- [08:09] Yan: BauHaus: <u>https://www.bauhaus.de/en/</u>
- [08:09] Beragon: bauhaus ugh
- [08:09] Beragon: booooo
- Yan: BauHaus is a kind of Artist school. Not only art but also desigh school, Teachers were also good artists. They use square and cube. Art using Geometry.
- [08:10] Chantal: https://en.wikipedia.org/wiki/Bauhaus
- [08:10] Beragon: Bauhaus is ugly
- [08:10] Tagline: love the chessboard
- [08:10] Chantal: Furniture became art
- [08:11] Beragon: :/
- Yan: Human brain is also stimulated to find geometric pattern from view field. Artist became use Rectangular, Circle from this age. And these design was matching industrial manufacturing
- [08:11] Beragon: Bauhaus buildings are a blight on Europe
- [08:11] Chantal: Not fond either
- [08:11] Arianne: Many dogs there in Bow house :XD
- [08:11] Beragon: lol
- [08:11] Chantal: Moving \bigcirc

(Yan: Bauhaus Archive Site: https://www.bauhaus.de/en/ Very fashionable.

(Mondrian and Modernism)



Yan: These are Square and Cube on parade. Start of Modernism movement. Usually almost SL houses are made by Square and Cube.

- [08:13] Chantal: Mondrian
- [08:13] Chantal: Extremely weird how much it is worth... but heh thats just me :))

- [08:13] Beragon: My late sister was an art historian. I once asked her to explain Mondrian and she exclaimed - Oh! its so complicated!
- (Yan's comment: Don't ask explanation for Art works. Stand in front of real works and just feel your brain stimulated!)

(Copy right)

- Yan: From this are, Art works displayed become few because of copy right problem. 50 or 70 years after Artist's death. So today's tour is over. Thank you for your attending this tour!
- [08:15] Arianne: applause !!!
- [08:15] Mike: Your tour was excellent!
- [08:15] Tagline: APPLAUSE
- [08:15] Arianne: Nice presentation
- [08:15] Chantal: Thank you, Yan :))) especially at this late rl hour!
- [08:15] Tagline: That was beautiful
- [08:15] Mike: :)
- [08:15] Beragon: thank you Yan!
- [08:15] Yan: Thank you everyone!
- [08:16] Akasha: Thank you ,Yan ;))
- [08:16] Tagline: Since last week, I have been thinking about your presentation daily. Now I shall think about this for the next week as well, or longer
- [08:16] Akasha: おつかれさまでした~^^
- [08:16] Chantal: I hope people landmark the museum for a later visit!!!
- [08:16] Yan: On
- [08:16] Mike: :)
- [08:16] Tagline: This is a great resource
- [08:17] Yan: Taglin, I'm glad I can stimulate you
- [08:18] Mike: Yay!
- [08:18] Chantal: Busy times
- [08:18] Q: Great tour and your English has greatly improved!
- [08:18] Yan: It is very difficult to add Asia and middle east Art
- [08:18] Chantal: How come?
- [08:19] Tagline: I would love to understand Asian art a bit more
- [08:19] Yan: because almost of them don't have publish year.
- [08:19] Chantal: Maybe a section with Asian art... and inform aging would be difficult?
- [08:19] Yan: So we need suppose by birth and death year.
- [08:20] Chantal: ok.. a lot of work
- [08:20] Chantal: Maybe Fumon and Arianne are able to help you?
- [08:20] Fumon: ♥

- [08:20] Arianne: Sure things
- [08:20] Q: You all have a great weekend! Have fun :)
- [08:20] Yan: publish year = (Birth + Death)/2
- [08:20] Chantal: Thank you, Hades for filming!
- [08:21] Yan: Thanks all, have a nice weekend!
- [08:21] Chantal: •
- [08:21] Chantal: thank you, Yan, great work
- [08:22] Tagline: That was a marvelous presentation, thank you!
- [08:22] Yan: yw
- [08:23] Tagline: You did fine, Yan!
- [08:23] Chantal: Yan... everyone EVERYONE appreciates your effort!
- [08:24] Tagline: Absolutely!
- [08:24] Tagline: This was a treat!

Tagline's comment on 9th Nov, 2018

Yan, I had one more thought. My idea relates to the German philosopher, Georg Wilhelm Friedrich Hegel and his concept of the "DIALECTIC METHOD" to investigate progress in history. Hegel argued that all great historical change can be evaluated in terms of an initial situation, the "THESIS". Then there is a subsequent situation called the "ANTITHESIS" which is often but not always a rebound or reaction to the THESIS. Distinct influences from each of these situations (including contradictory aspects) are blended over time, consequently resolving into a new situation, the "SYNTHESIS".

I expect you know about this given your background and interests, but a common example is the CULTURE OF ANTIQUITY in the form of CLASSICAL GREECE & ROME as a THESIS. The world known to MEDIEVAL EUROPE is considered the "ANTITHESIS" and the European RENAISSANCE is then analysed as the "SYNTHESIS" of these two cultural periods.

I thought this could be applied to your presentation in the following way: imagine the intuitive, magically thinking individuals of Holocene "hunter / gatherer" culture as the THESIS. Their Gestalt was something of an infinite "open" Universe.

I am thinking in the pre-agricultural period, nomadic humans perceived most things in terms of a continuous, qualitative spectrum and reacted to these perceptions with themselves as a part of the whole. **These humans were not trying to subdue Nature but to survive in her bosom**.

When the Ice Age & Holocene Period ended, humans settled into agricultural societies which were more conservative, territorial, oriented toward domination & control of Nature (or at

least, a small parcel of Nature as they partitioned land into fixed estates). This culture I would think of as the ANTITHESIS. Once again, I think **early agricultural societies probably depended on a matter of thinking akin to finite mathematics, counting what they owned** therefore, they were likely more quantitative than their predecessors. Still, they fell short on perception and understanding of "continuity & infinity".

So here is my concluding point: I am thinking **the advancement of science into abstract or higher mathematics (Calculus and beyond) was ACHIEVED BY the SYNTHESIS of innate human capacity for HOLOCENE THINKING (THESIS) married to the mathematical thinking of early civilization (ANTITHESIS)**.

Once again, mathematical understanding of Agrarian Humans arose or was discovered from the problems with which they dealt, problems of farmers - how many seeds, how many rows to plant, how many full moons before harvest time. I suspect they dealt most comfortably with natural numbers. So that occurred to me on a trip I just completed to New York City for most of the week. I wanted to share it with you. That is my first written statement of these thoughts.