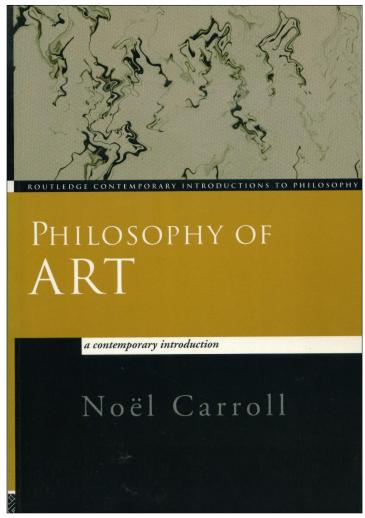


# Categories of Arts

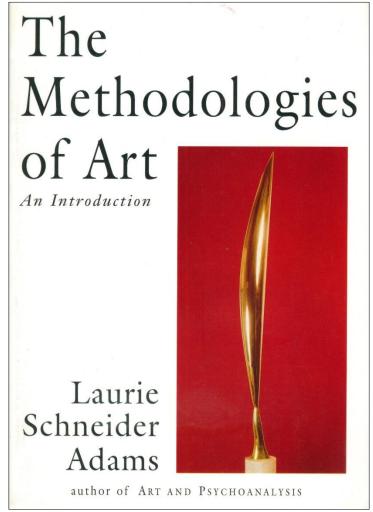
- Visual art (painting, drawing, sculpture, photo...)
- Film
- Literature
- Performing art (dance, drama, body/action art, linguistic...)
- Music
- Architecture
- Designing art
- New media arts (photonic, digital...)
- •

## Collection of Failed Attempts



1999

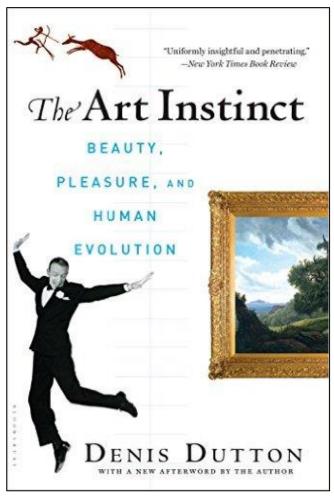
A collection of failed attempts in defining art



1996

A collection of failed attempts in interpreting art

# A Recent Failed Attempt in Defining Art



2009

#### Dutton's 12 features of art

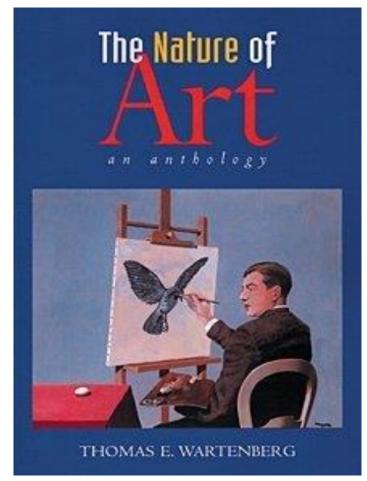
- 1. Direct pleasure
- 2. Skill and virtuosity
- 3. Style
- 4. Novelty and creativity
- 5. Criticism
- 6. Representation
- 7. Special focus
- 8. Expressive individuality
- 9. Emotional saturation
- 10. Intellectual challenge
- 11. Art traditions and institutions
- 12. Imaginative experience

Unfortunately, all these features are shared by the other creative discipline called physics, and hence are not unique to art

## Does Anyone Know?

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# Nature of Arts

## Arts and Aesthetics

For a long time, art was associated with aesthetics. No longer so.

Wu Da-Yu

吳大羽 1903-1988



- 1922–1927: Study in Paris
- 1928: Head, oil painting dept., National Art Academy, Hangzhou
- Students: Zhao Wujie, Wu Quanzhong, Zhu Dequen...





## The Puzzle of Arts



Jean-Auguste Dominique Ingres *The Spring* (1820-1856)



Edvard Munch The Scream (1893-1910)



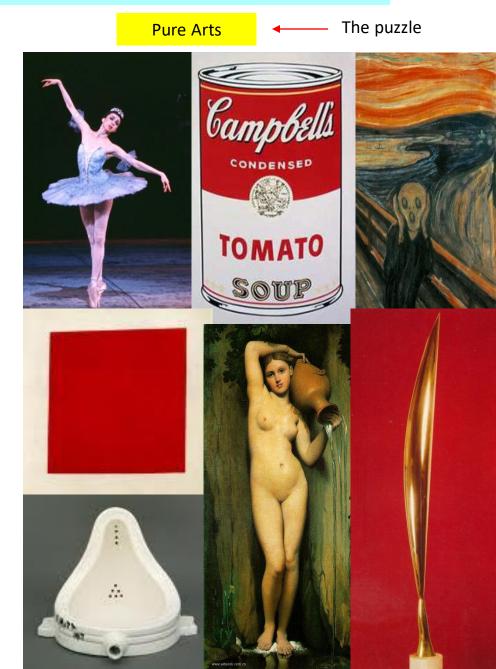
Marcel Duchamp Fountain (1917)

- Arts are not always about beauty but could be about (all kinds of) emotions, too
- It is also about the description and interpretation of everything else in nature
   —just like in physics, say
- And it could be about "nothing"
- It is somehow constrained by human nature, too



# Two Types of Arts

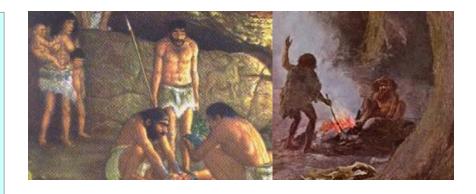




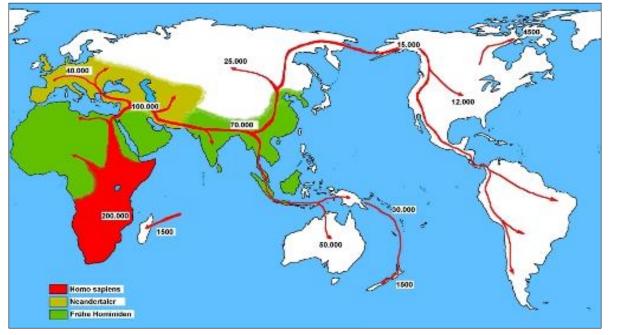
## The Emergence of Arts

#### **Human History**

- 1.6 million years ago, first use of fire; more complex stone tools created
- 400,000 years ago, earliest evidence of cooking
- 195,000 years ago, modern humans (Homo sapiens) appear
- 60,000 years ago, second wave of migration out of Africa



- Mimesis (to mime, imitate, gesture, rehearse of skill) was there 2 million years ago.
- Three days of heavy rains.
   What would they do? They created arts to kill time.
- Arts was the first safe job in human history!
- Applied arts could start 1
  million years ago; pure arts,
  later, when community large
  enough to support
  professional artists, about
  10,000 years ago.



## Pure Arts: A New Perspective

## Five criteria of pure arts that last:

- Aim at receiver's neurons
- Kill time
- 3. Kill time gently and harmlessly
- 4. Passivity (physically speaking)
- Human creation or intervention.



Content and form of pure arts are secondary, to support Criteria 2-4 only!

PS: In the near future of Al-robots people will have more free time to kill; arts (and entertainment) will play an important role in the new economy

# Art and Science

# Arts and Science

Characteristics	Arts	Science	
Both are part of science	Arts processes and studies are part of science (artworks not)	Mostly about nonliving systems	
Different aims	Arts aim at receiver's neurons	Science aims to understand how nature works	
Receiver	Arts need a receiver to appreciate the artwork	Science needs no receiver (but has to compare with Nature, the ultimate judge)	
Different history	Arts started at least 35,000 (could be 1 million) years ago	Science started about 2,600 years ago since Thales (c. 624-c. 546 BC), after the invention of language and writing	
	<ul> <li>Both involve creative pro- in many other human act</li> </ul>	cess (for different reasons)—but same ivities	
Relationships between arts and science	<ul> <li>Arts are humans' creation, reflecting on the world of human and nonhuman systems; the principles governing this world are the same principles (e.g., symmetry, spontaneous symmetry breaking, fractal, chaos, active walk) studied by scientists</li> </ul>		
	development of arts; e.g.	elated technology) advances the , pigments → color painting, ohic art, electricity → cinema, laser r → digital art	

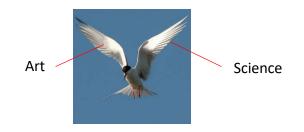
## The Importance of Arts

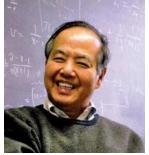


Cai Yuanpei (蔡元培):

1868-1940

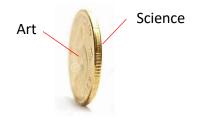
Science and art to culture, is like the two wings of a bird, the two wheels of a cart.





Tsung-Dao Lee (李政道):

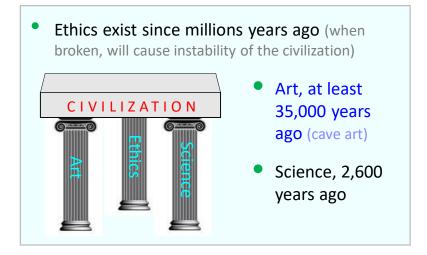
Science and art are as inseparable as the two sides of the same coin; the coin is culture.



#### They are wrong!

#### Reasons:

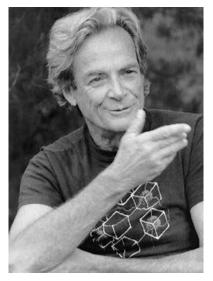
- Art and science appeared at very different times
- They are separable
- Ancient Greece run quite well before science appeared



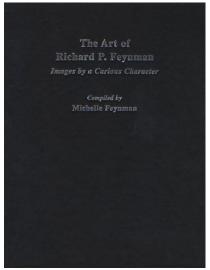
Art and science are two (of three) major pillars of any modern civilization!

# Artist and Scientist

# Scientist's Art



Richard Feynman 1918-1988

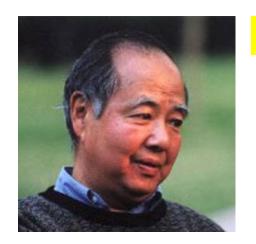


1995









## Tsung-Dao Lee

李政道





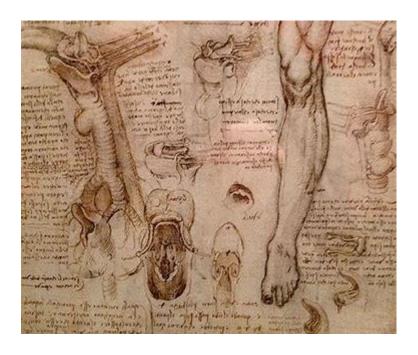
2010





## Artist's Science

Leonardo da Vince 1452-1519







Artist's science is generally better than scientist's art, it seems

#### Artist-Scientist Interaction

#### Past - attempted





《核子重如牛,对撞生新态》。这是1989 年李可染为中国高等科学技术中心举行的 "相对论性重离子碰撞国际学术研讨会" 创作的主题画 吴作人的《无尽无极》。1988年5月,中国高等科学技术中心举办"二维强关联电子系统国际会议"。吴作人在看了李政道的科普介绍后,用"两仪"变形图案表现二维强关联电子系统。

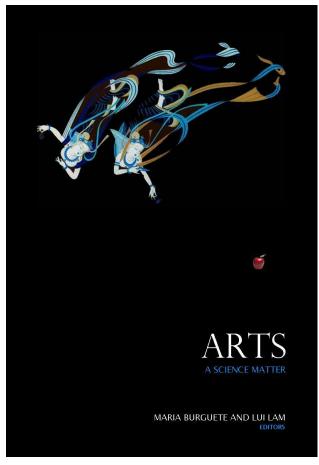
# Present - recommended

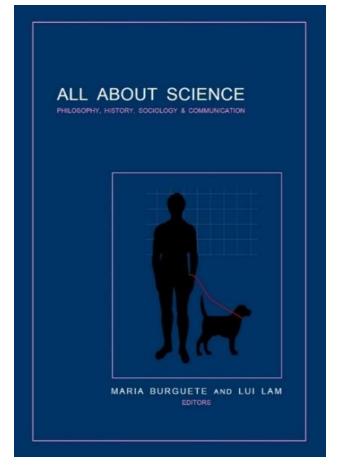


Artist and scientist go watching sunset together

## Recommended for artists and scientists

## Buy my two books and read Chapter 1





2011 2014

### Conclusion

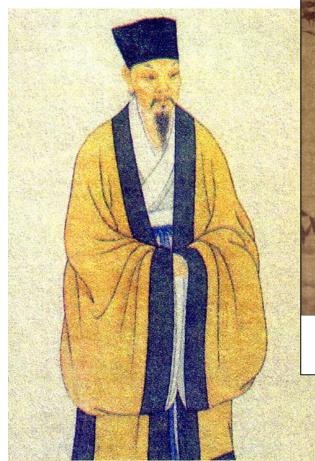
- Arts appeared at least 35,000 years (cave art) ago, very likely 1 million years ago
- Arts could be divided into applied arts and pure arts (just like in any discipline)
- Pure arts is to kill time gently, harmlessly and passively; the different means/contents (changed with time) are vehicles to achieve this aim
- Arts and science both are
  - Creative processes
  - Differ very much from each other in their aims and history
  - Both reflect nature
  - Arts are constrained by human nature; science constrained by nature
- Progress of science did influence significantly the development of arts, but not vice versa

## 文化自信

Su Dong-Po

苏东坡

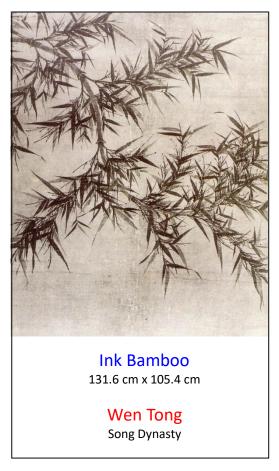
1036-1101, Song Dynasty Poet, painter and mandarin





Bamboos and Stones 106 cm x 28 cm, partially shown

Some bamboo leafs are detached from stem



All bamboo leaves are attached to stem

Modernism: Paint the essence of things Su said that 800 years ahead of Paul Cézanne

# Take Home Message

Art makes our life worth living

Science makes our life comfortable

Art is much more important than science!