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institute


 

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## China Grapples With Mystery Pneumonia-Like Illness

Beijing is racing to identify a new illness that has sickened 59 people as it tries to calm a nervous public.



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## Coronavirus cases surge to 400 in Italy

🕒 26 February 2020

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## Italy, Pandemic's New Epicenter, Has Lessons for the World

The country's experience shows that steps to isolate the coronavirus and limit people's movement need to be put in place early, with absolute clarity, then strictly enforced.

# THE MECHANISTIC VIEW OF THE WORLD

XVII century



René descartes



## dualism

One of the deepest and most lasting legacies of Descartes' philosophy is his thesis that mind and body are really distinct - "mind-body dualism." He argued that the nature of the mind is completely different from that of the body and therefore it is possible for one to exist without the other.



## reductionism

He argued that the world was like a clockwork machine, which could be understood by taking it to pieces and studying the individual components.



# THE MECHANISTIC VIEW OF THE WORLD

XVII century



Isaac newton



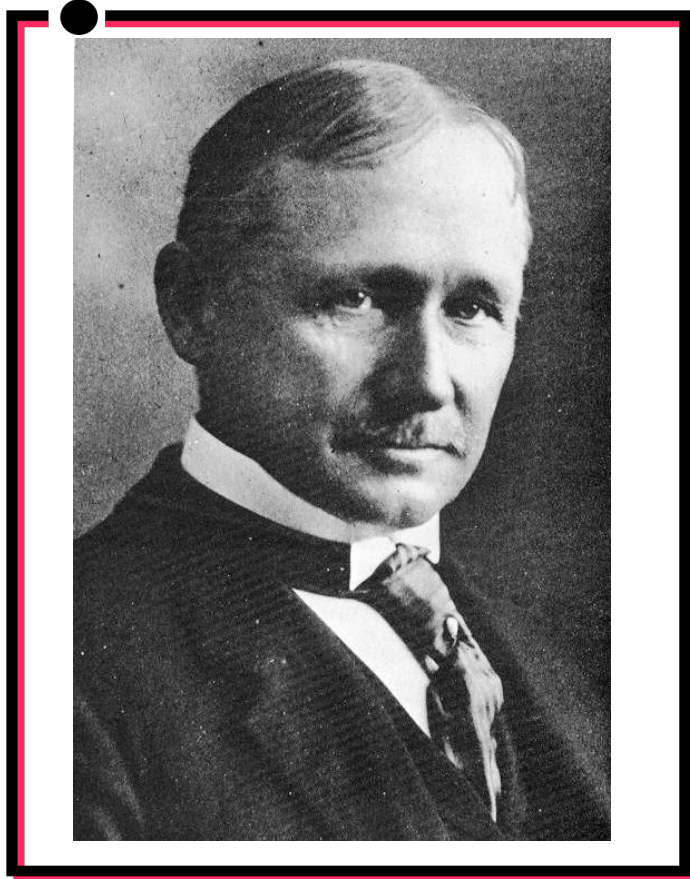
## Newtonian mechanics

Newtonian mechanics underlay the view that all physical phenomena would be understood in mechanical terms. This view, referred to as the mechanical world view, incorporated the hope that Newton's laws would become the basis for explaining everything



# THE MECHANISTIC VIEW OF THE WORLD

XX Century



Frederick  
taylor



## Scientific management

Instead of assigning an entire project to one individual and allowing them the proper time to complete it, managers break down larger tasks into smaller parts.

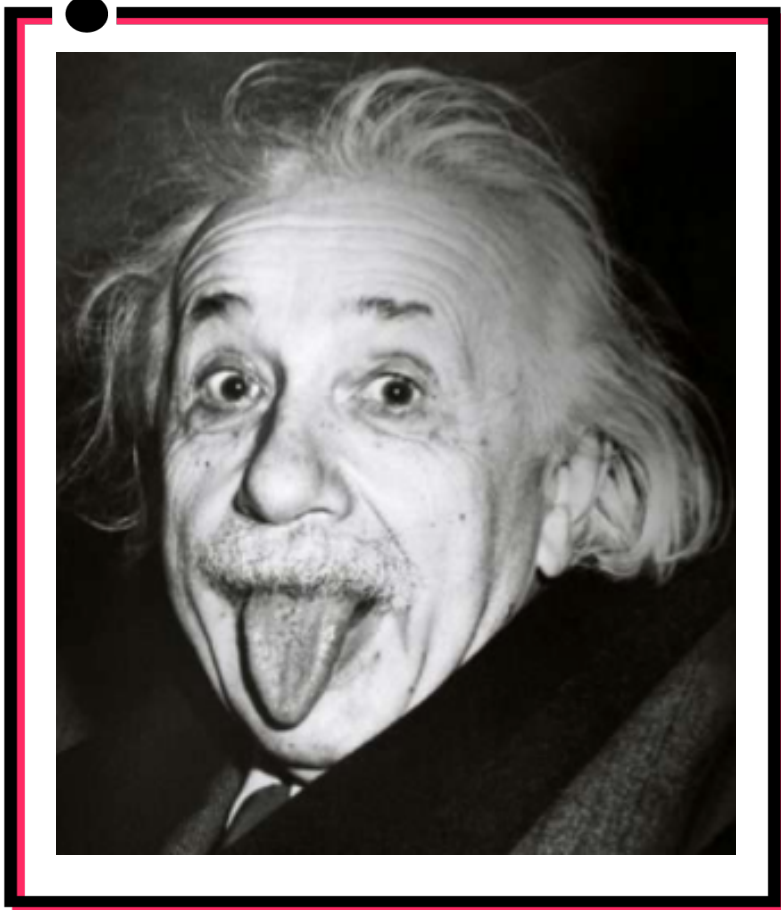


**QUIZZ TIME!!!**

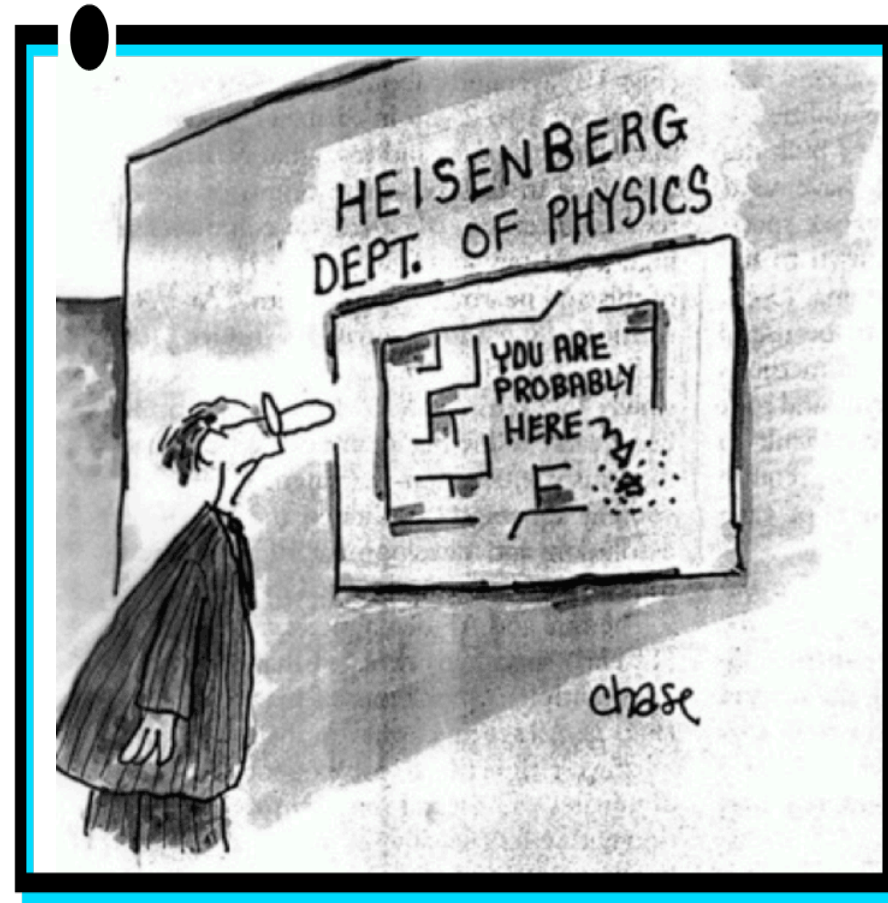


# CHANGING VIEWS OF THE WORLD

XX Century



ALBERT  
EINSTEIN



heisenberg

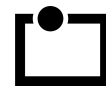


# THE HOLISTIC VIEW OF THE WORLD

XX Century



Von  
bertalanffy



## General system

### theory

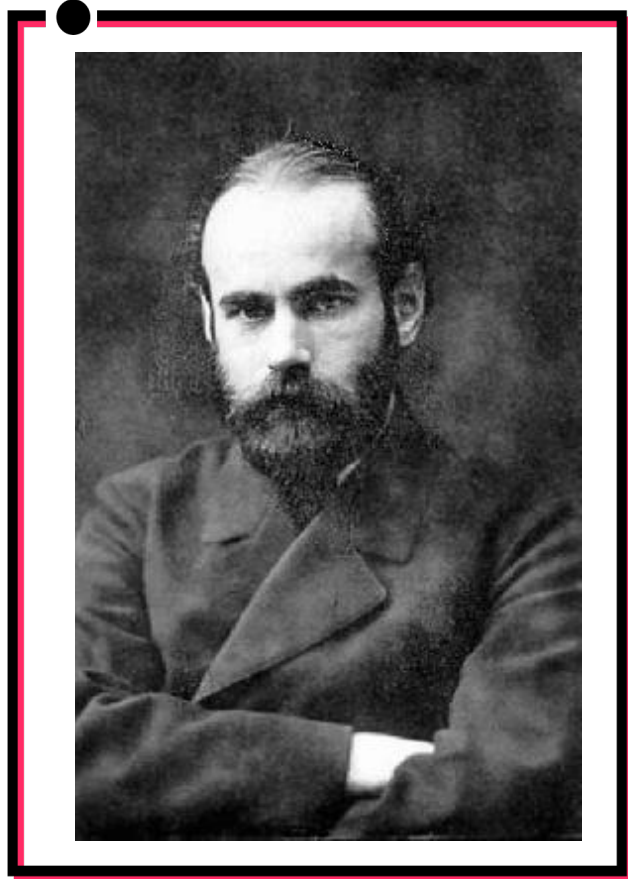
It is necessary to study not only parts and processes in isolation, but also to solve the decisive problems found in organization and order unifying them, resulting from dynamic interaction of parts, and making the the behavior of the parts different when studied in isolation or within the whole.



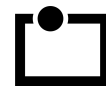


# THE HOLISTIC VIEW OF THE WORLD

XX Century



Max  
wertheimer



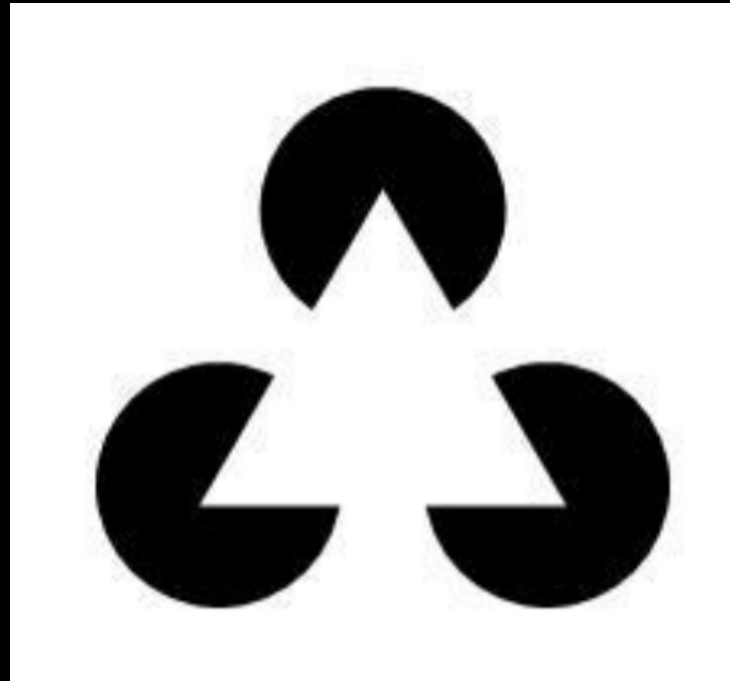
## Gestalt

There are wholes, the behaviour of which is not determined by that of their individual elements, but where the part-processes are themselves determined by the intrinsic nature of the whole. It is the hope of Gestalt theory to determine the nature of such wholes.

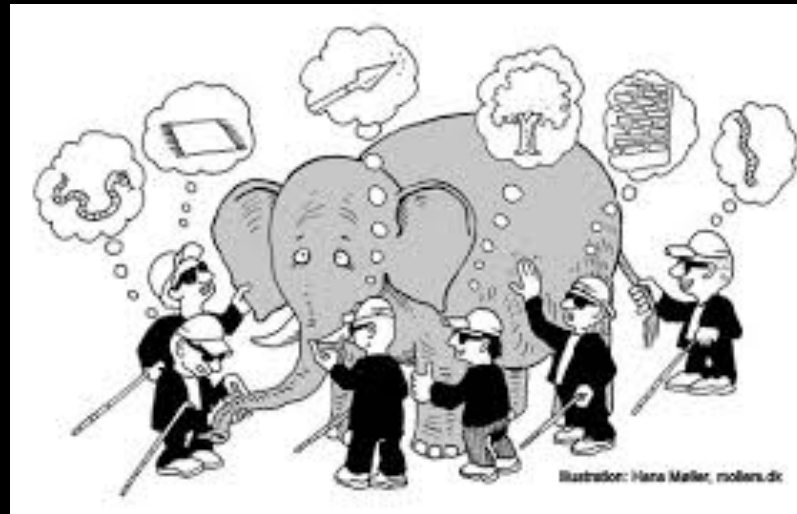


# GESTALT EXAMPLE

Law of closure



*The whole is greater than the sum of its parts*



**QUIZZ TIME!!!**

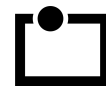


# EMBRACING THE COMPLEXITY

XX Century



MELANIE  
MITCHELL



## COMPLEXITY

The word complex comes from the Latin root plectere: to weave, entwine. In complex systems, many simple parts are irreducibly entwined, and the field of complexity is itself an entwining of many different fields.



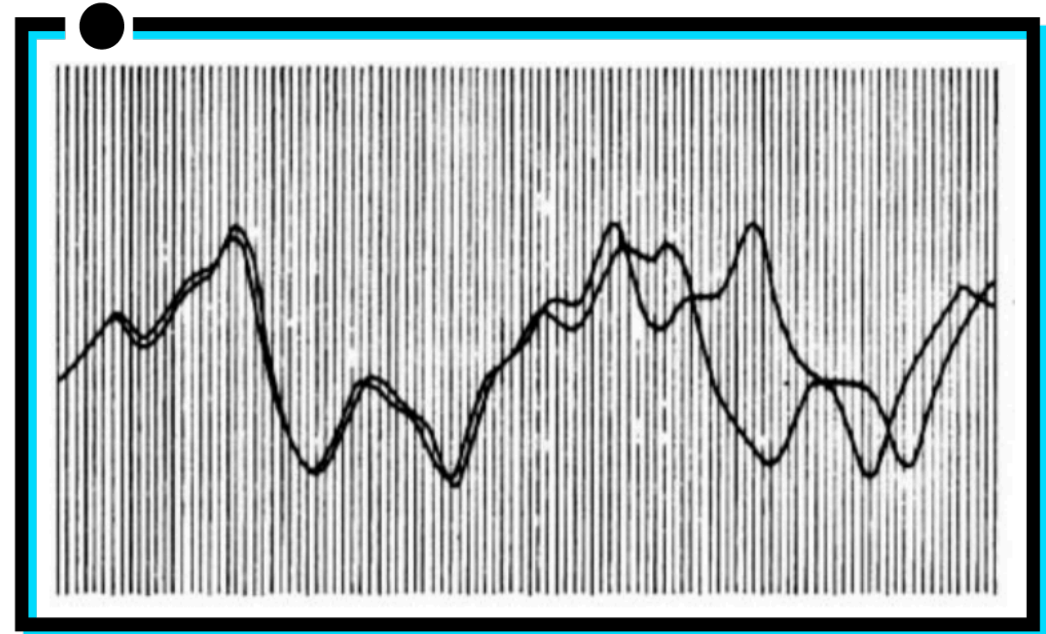
# EMBRACING THE COMPLEXITY

XX Century



## Butterfly effect

Sensitivity to the initial conditions. the idea that small things can have non-linear impacts on a complex system.



Edward Lorenz



# EMBRACING THE COMPLEXITY

XX Century

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, 139th MEETING

Subject.....Predictability; Does the Flap of a Butterfly's wings in Brazil Set Off a Tornado in Texas?

Author.....Edward N. Lorenz, Sc.D.  
Professor of Meteorology

Address.....Massachusetts Institute of Technology  
Cambridge, Mass. 02139

Time.....10:00 a.m., December 29, 1972


Place.....Sheraton Park Hotel, Wilmington Room

Program.....AAAS Section on Environmental Sciences  
New Approaches to Global Weather: GARP  
(The Global Atmospheric Research Program)

Convention Address.....Sheraton Park Hotel

RELEASE TIME  
10:00 a.m., December 29





*For want of a nail the shoe was lost.  
For want of a shoe the horse was lost.  
For want of a horse the rider was lost.  
For want of a rider the message was lost.  
For want of a message the battle was lost.  
For want of a battle the kingdom was lost.  
And all for the want of a horseshoe nail.*

-Herbert, George.



# The Black Swan

*"First, it is an outlier, as it lies outside the realm of regular expectations, because nothing in the past can convincingly point to its possibility. Second, it carries an extreme 'impact.' Third, in spite of its outlier status, human nature makes us concoct explanations for its occurrence after the fact, making it explainable and predictable."*

-Taleb, Nicholas.

**Reading time!!!**

